PERFLUOROCARBON (PFC)-CONTAINING FIREFIGHTING FOAMS AND THEIR USE IN FIREFIGHTING TRAINING IN MINNESOTA

DELTA PROJECT NO. A008-110-0

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June 30, 2008

Exhibit
2222
State of Minnesota v. 3M Co.,
Court File No. 27-CV-10-28862

STATE_02820958

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1.0 INTRODUCTION

1.1 Purpose and Scope of Services

Delta Consultants (Delta) was retained and authorized by the Minnesota Pollution Control Agency (MPCA) to conduct research into the presence of perflourocarbons (PFCs) in firefighting foams and the use of these foams in firefighting training in Minnesota. Specifically, the types of firefighting foams that contain or contained PFCs, and the locations where the PFC-containing firefighting foams are or were used in firefighting training in Minnesota, were researched for this project.

The goal of this research plan is to identify sites in Minnesota where certain types of PFCs of particular environmental concern at this time, perfluorooctane sulfonate (PFOS), perfluorooctanoic acid (PFOA) and perflourobutanoic acid (PFBA), may be present in the environment due to the repeated use of firefighting foams at firefighting training locations.

1.2 Scope of Work

The following scope of work was conducted under Master Contract Number A48440 and Contract Work Order Number SFDE0810.

Task 1 – Research Outline

Delta prepared a research outline, including issues to be addressed and questions to be answered by this PFC research project. The outline was submitted to the MPCA for review and comment at the start of this research project to ensure that Delta would meet the project requirements and expectations of the MPCA.

Task 2 – PFC Background Research

Delta's background research included review of readily available information on the chemistry of PFCs, current State and Federal guidelines related to the PFCs of concern (PFOS, PFOA and PFBA), and the health concerns associated with those PFCs.

Resources for Task 2 included PFC research already conducted by the MPCA and information available on the websites for the MPCA, Minnesota Department of Health (MDH), the U.S. Environmental Protection Agency (USEPA) websites, and others.

Task 3 – PFC-Containing Fire Suppression Foam Background Research

Delta researched the history and development of firefighting foams and the use of PFCs in foams, identified the past and current manufacturers and types of PFC-containing firefighting foams, identified the major users in Minnesota of PFC-containing firefighting foams, and identified Federal or State regulations regarding the use of PFC-containing foams.

Resources for Task 3 included the following: information available at the websites for various manufacturers of firefighting foams; websites for various firefighting organizations and entities, including the Minnesota State Fire Marshal, the National Fire Protection Association, the U.S. Fire Administration, the Fire Fighting Foam Coalition, and the branches of the U.S. military; and, numerous periodicals available at the Fire/EMS/Safety Center Library of the Minnesota State Colleges and Universities (MNSCU).

Delta also surveyed the U.S. manufacturers of firefighting foams to obtain information regarding the foam brands they currently produce and historically made, and whether or not PFCs are or were used in the production of those foams.

Task 4 – Interviews

Delta interviewed the following persons regarding firefighting foams, users of firefighting foams in Minnesota, and locations where fire fighting foams are or were historically used for training purposes: Dr.. Jennifer Field, professor at Oregon State University and researcher of PFCs in firefighting foams; Mr. Tom Cortina of the Fire Fighting Foam Coalition; Mr. Mitch Hubert of Tyco Fire & Security, makers of Ansul foam products; Mr. Jerry Rosendahl, Minnesota State Fire Marshal; Mr. Don Beckering, State Director of Fire, Emergency Medical Services and Safety Training at Minnesota State Colleges and Universities; Mr. Robert Berg, Homeland Security Planner with the Minnesota Department of Homeland Security and Emergency Management; Ms. Barb Meyer, Forestry Program Coordinator with the Minnesota Department of Natural Resources; and, Ms. Toni Howell, Manager of Environmental Affairs at the Metropolitan Airport Commission Environment Department.

Task 5 – Questionnaire Mailing

A questionnaire regarding the use of firefighting foams in fire training exercises was mailed to users of firefighting foams in Minnesota identified in Task 4, including all fire fighting departments identified on the Minnesota State Fire Marshal's website (www.fire.state.mn.us), firefighter training colleges in Minnesota, airports with dedicated fire departments, Minnesota's two oil refineries, and Camp Ripley. The questionnaires requested information regarding the types and amount of firefighting foam used in fire training and fire response, the locations of the training areas used by the fire departments, and the fate of the spent foam used in training.

Task 6 – Table of Fire Training Sites

A table of fire training sites where PFC-containing fire suppression foams are or were used was prepared. Information summarized in the table includes departments/agencies/entities using the training site, the site size and locations (address, latitude/longitude, or other description), the types of firefighting foams used, the estimated monthly or annual amount of foam discharged at the site, whether or not the site is active or inactive, and whether or not potential receptors were identified within a certain distance of the site (see Task 7, below).

Sites were ranked based on the types and quantities of foam discharged in training exercises and the presence of potential nearby environmental receptors and their proximity to the site. Only responding fire departments and schools were included in the ranking.

Task 7 – Receptor Survey

Delta consulted the MDH's *County Well Index (CWI)* (www.health.state.mn.us/divs/eh/cwi/) to identify water supply wells and groundwater monitoring wells that have been registered with and mapped by the MDH, and wellhead protection areas near the training areas. The CWI mapping program includes topographic maps that were used to identify surface waters near the training areas. Potential receptors around firefighting training sites were identified to a one mile radius.

Delta also referenced the U.S. Fish & Wildlife Service's *National Wetlands Inventory Mapper* (http://wetlandsfws.er.usgs.gov) to identify wetlands located within one mile of the training sites.

Task 8 – Training Site Summaries

Information for firefighting training sites ranked with the highest identified potential risk to the environment was compiled into a Training Site Summary. Information in the Training Site Summaries included information identified in Tasks 6 and 7, plus contact information for each site, well logs for nearby water wells identified on the CWI, and any other pertinent site-specific information.

Task 9 – Report

Delta compiled the information gathered in Tasks 1 through 8 into this comprehensive report.

1.3 Limitations

Delta's research and this report are subject to the following limitations:

- Delta obtained, reviewed, and evaluated information available from Federal and State entities and published media, and provided voluntarily by fire departments, firefighting foam manufacturers, and other knowledgeable persons. Delta's services do not include the verification of the accuracy or authenticity of this information.
- Delta did not perform any site reconnaissance or directly observe any of the fire training sites. Information regarding the locations, arrangements and physical characteristics of the training

sites are inferred from information obtained from the fire departments and maps and other publicly available information.

2.0 PFC BACKGROUND

Perfluorocarbons (PFCs) are a class of man-made chemicals derived from hydrocarbons, where the hydrogen atoms have been replaced by fluorine atoms. PFCs are characterized by chains of carbon atoms of varying lengths to which fluorine atoms are strongly bonded, making PFCs durable and hard to break down (1). PFCs have been used since the 1950s to produce industrial and consumer products that are heat and stain resistant and water repellant (2). PFCs have been used in a variety of products including stain-resistant fabrics and carpet, coatings for food packaging, non-stick cookware, herbicide and insecticide formulations, and firefighting foams (2)(3)(4).

2.1 Chemistry of PFCs

There are three classes of PFCs considered for this project: perfluorocarboxylates, perfluorinated sulfonates, and fluorotelomer sulfonates (5). Perfluorocarboxylates are fully fluorinated carbon molecules with a carboxylate group on the end of the chain. Perfluorinated sulfonates are fully fluorinated carbon molecules with a sulfonate group on the end of the chain. Fluorotelomer sulfonates are partially fluorinated molecules. In referring to fluorotelomer sulfonates, the ratio of the number of fluorocarbons (X) and hydrocarbons (Y) are presented as X:Y. So, a 6:2 fluorotelomer sulfonate has six fluorinated carbons and two hydrocarbons in the fluoroalkyl chain (5).

PFCs may have various functional groups attached, such as sulfonate, octanoic acid or butanoic acid groups, making the following compounds which are the focus of this research:

- perfluorooctane sulfonate (PFOS), $C_8F_{17}SO_3$, an 8-chain carbon compound, has no specific case registry number; the parent sulfonic acid is listed under case registry no. 1763-23-1. PFOS is a perfluorinated sulfonate.
- perfluorooctanoic acid (PFOA), $C_8HF_{15}O_2$, an 8-chain carbon, case registry no. 335-67-1. The PFOA acronym refers to perfluorooctanoic acid and its principal salts. The most common chemical in this group is the ammonium salt, which is also known as C8. PFOA is a perfluorocarboxylate.
- perfluorobutanoic acid (PFBA), $C_4HF_7O_2$, a 4-chain carbon, case registry no. 375-22-4. PFBA is part of the perfluorocarboxylate group.

PFOS, PFOA and PFBA are persistent in the environment and do not degrade under environmental conditions (USEPA, MDH).

2.2 Manufacture of PFCs

PFCs are manufactured using one of two methods: the Simons electro-chemical fluorination (ECF) process used exclusively by 3M; or, a telomerization process (6)

2.2.1 ECF Process

The ECF process used exclusively by 3M generates fully fluorinated compounds in branched- and straight-chains with both even and odd numbers of perfluorocarbons (6)(7). Perfluorinated sulfonates are made using the ECF process. The chemical of interest in the ECF process is perfluorooctanesulfonyl fluoride (POSF), $C_8F_{17}SO_2F$. The final degradation product of POSF and its derived products include PFOS and PFOA (8). PFOS can only be produced by the ECF process or by the degradation or metabolism of other fluorochemicals produced by ECF (9). PFOS does not degrade except by combustion, and is persistent in the environment (9). PFOA can result from the manufacture of PFCs by both the ECF process and a telomerization process (see **Section 2.2.2**) (6). It is not clear from available literature if PFBA is made using the ECF process.

3M discontinued their production of PFOA, PFOS and PFOS-related products in 2002 (10). There are other companies in the world that manufacture or supply PFOS and PFOA, and there are stockpiles of firefighting foam made by 3M and the ECF remaining (11).

2.2.2 Telomerization Process

The telomerization process creates a fluorinated telomer that is different from an ECF-made fluorinated molecule in that they only have an even number of fluorinated carbon atoms and the molecule is predominantly straight-chained (6)(7). In addition, the fluorotelomerization process inserts an ethyl group between the fluoroalkyl chain and the functional group on the end, which differentiates the atom from an ECF-process fluorinated molecule. In referring to fluorotelomer sulfonates, the number of fluorocarbons (X) and hydrocarbons (Y) are designated as ratio X:Y. So, six- and eight-chain fluorotelomer sulfonates (FtS) would be referred to as 6:2 FtS and 8:2 FtS, respectively. Perfluorocarboxylates (including PFOA and PFBA) and fluorotelomer sulfonates are made using a telomerization process.

All U.S. manufacturers of firefighting foams except 3M use a foam surfactant made with a telomerization process. Analysis of fluorotelomer-based aqueous film-forming foam (AFFF) concentrate found that it contains a small amount of fluorotelomer sulfonates and that fluoroalkylthioamido sulfonates are the main anionic fluorosurfactant in the concentrates (5). According to Dr. Jennifer Field, a professor at Oregon State University and researcher of PFCs in firefighting foams and the environment, fluoroalkylthioamido sulfonates are a class of chemicals made by the telomerization process that share a common backbone but weigh more than the 8:2 and 6:2 telomer sulfonates. Dr. Field and her colleagues hypothesize that fluoroalkylthioamido sulfonates break down to 6:2 and 8:2 telomer sulfonates in the environment. Dr. Field indicated that currently there is little research data showing whether or not 8:2 fluorotelomer sulfonates can break down to PFOA, while some older research hinted that it may be possible.

According to Mr. Tom Cortina of the Fire Fighting Foam Coalition, telomer-based firefighting foams contain predominantly (75 to 80%) six-chain carbon fluorosurfactants (6:2 FtS), with varying percentages of eight-chain or higher homologues (8:2 FtS). According to a 2002 report, telomer-based surfactants biodegrade to a fluorinated carbon chain molecule, and that this fluorinated carbon chain molecule is not expected to further degrade. However, this final degradation product molecule has not been established but the two possibilities are perfluorohexanoic acid (PFHxA) or another unknown molecule (8). PFHxA is a shorter chain homologue of PFOA (8). More recent data regarding this unknown final degradation product molecule of telomer-based surfactants was not found during this project.

2.3 Other PFCs

To date most studies conducted by PFC manufacturers, the USEPA and others have focused on PFOS and PFOA. But the PFC classes include a number of fluorinated compounds of varying carbon chain length, including the following (12):

Chemical Group	Chemical Acronym	Chemical Name	CAS Registry No.	No. of Fluorinated Carbon Chains
Perfluorinated carboxylic acids, group includes PFOA. Compounds are possible breakdown products or manufacturing intermediates of other PFCs.	PFBA	perfluorobutanoic acid	375-22-4	4
	PFPeA	perfluoro-n-pentanoic acid	2706-90-3	5
	PFHxA	perfluorohexanoic acid	307-24-4	6
	PFHpA	perfluoroheptanoic acid	375-85-9	7
	PFNA	perfluorononanoic acid	375-95-1	9
	PFDA	perfluorodecanoic acid	335-76-2	10
	PFUnA	perfluoroundecanoic acid	2058-94-8	11
	PFDoA	perfluorododecanoic acid	307-55-1	12
	PFTA	perfluorotridecanoic acid	not determined	not determined
Perfluorinated sulfonates, group includes PFOS.	PFBS	perfluorobutane sulfonate	29420-49-3	4
	PFHxS	perfluorohexane sulfonate	355-46-4	6
Fluorotelomer Sulfonates	6:2 FtS	1-octanesulfonic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-, ammonium salt	--	6
	8:2 FtS	--	--	8

Following 3M's decision in 2000 to stop production of PFOS-related fluorochemicals, 3M changed its fluorination chemistry and reformulated its products so that they are now based on a four-carbon fluorinated compound "cousin" of PFOS called perfluorobutane sulfonate (PFBS). 3M received USEPA approval for, and is now manufacturing, eighteen new PFBS-based chemistries (13).

Little information or research data is readily available regarding the chemistry of PFBA, or what compounds may break down to PFBA. Little information is available regarding specific uses of PFBA and these other PFCs other than to indicate they have been used in products such as stain-resistant fabrics and carpet, and coatings for food packaging. Some compound-specific product uses are as follows:

- 3M manufactured PFBA at its Cottage Grove, Minnesota facility through 1998. PFBA was sold to an industrial customer for use in making photographic film (14).
- PFBS is an active ingredient in 3Ms new Scotchgard formulation (15).

2.4 PFCs in the Environment

The strength and durability of PFCs that make them ideal in a variety of consumer products also make them resistant to breakdown in the environment. PFOS, PFOA and PFBA are persistent in the environment and do not degrade under environmental conditions (16)(6)(MDH).

In Minnesota, PFCs have been identified at former disposal sites used by 3M in Lake Elmo, Oakdale, and Woodbury, as well as in the area of 3M's manufacturing facility in Cottage Grove. As part of its ongoing investigation of PFCs, the MPCA has conducted a variety of PFC sampling in Minnesota's ambient environment. Sampled media include shallow ground water in urban and agricultural areas, surface water in urban and remote areas, fish tissue in urban and rural lakes, multiple media at landfills statewide, multiple media at waste water treatment plants statewide, urban stormwater, and suburban air. A number of samples had no detected PFC, but PFCs were detected at low concentration in at least one sample from each media (MPCA).

PFCs in the environment are not limited to Minnesota and have been detected world-wide in environmental media, animals, fish, and humans. The reduction of PFCs as a greenhouse gas are part of the Kyoto Protocol. The Environmental Agency of England and Wales published in 2004 an *Environmental Risk Evaluation Report: Perfluorooctanesulphonate (PFOS)* (11). Other European countries (Austria, Denmark, Germany) have implemented phase-outs of PFCs (17). Austria's ban on PFC-containing fire extinguishers and foams has taken effect. The European Union and Canada have propoped a phased ban on the use of existing stocks of PFOS-based firefighting foams as part of broader PFOS regulations (18). While our understanding of the breadth of PFCs in the environment and the implications for the health of the environment and humans is incomplete and still evolving, PFCs are the subject of ongoing regulations and continued studies across the Unites States and world-wide.

2.5 PFCs and Human Health

According to the Minnesota Department of Health, nearly all people have some amount of PFCs in their blood. Studies by the Center for Disease Control and Prevention (CDC) published in 2007 found that PFOS, PFOA and PFHxS were detected in approximately 98% of the population (19). The way through

which PFCs are entering the bloodstream is not thoroughly understood at this time. Exposure could occur through the use of commercial products that contain PFCs, through exposure to contaminated environmental media (soil, air, water), or through food. PFOS and PFOA are bioaccumulative in humans and animals. Less is known about other PFBA PFCs in the body.

The USEPA has prepared a *Draft Risk Assessment of the Potential Human Health Effects Associated with Exposure to Perfluorooctanoic Acid and Its Salts* dated January 4, 2005. However, the report has not been finalized and cannot be cited or quoted. The draft report is available on-line at www.epa.gov/oppt/pfoa/pubs/pfoarisk.htm.

In January 2008 the Minnesota Department of Health issued its final report on health risks for PFCs (20). The report notes the following regarding PFCs and human health effects:

> "There are a few studies of health effects in people. 3M studied the health of 3M workers exposed to PFCs during manufacturing and found no apparent harm to worker health. Two studies have been conducted to determine if there is a relationship between the health of newborn babies and PFC levels in the mother's blood. Each study found a small decrease in birth weight or other measures of growth with increasing PFC levels in the mother. A health study of 70,000 people exposed to PFOA in drinking water in Ohio and West Virginia is underway. In general, these studies show that the levels of PFCs in the environment may be linked to changes in the body, but the studies have not shown that the PFCs have harmed people. Therefore, toxicologists have relied on animal studies to determine whether an exposure to PFCs may be harmful."

In August 2007, the MDH set forth the following Health Risk Limits for concentrations of PFOS and PFOA in drinking water: 0.5 parts-per-billion (ppb) for PFOA and 0.3 ppb for PFOS. Since that time, additional research data has become available and the MDH has proposed a revised Health Risk Limit of 0.3 ppb for both PFOA and PFOS. The new research relied upon by the MDH indicates the health concerns related to PFOS are effects on the liver and thyroid; health concerns related to PFOA are effects on the liver, slowed development in fetuses, reduced number of red blood cells, and changes to the immune system.

The MDH indicates that sufficient toxicity data does not exist to calculate a chemical-specific health-based value (HBV) for PFBA. The data that are available for PFBA indicate that it is less toxic than PFOA, a similar chemical, and the MDH believes that 1 ppb is a protective number for PFBA, based on the most recent science, and is protective even of those who may have higher relative water consumption rates, such as pregnant women, nursing mothers and small children (MDH).

2.6 The USEPA and PFCs

In 1999 the USEPA began an investigation into PFOS after receiving data from 3M that PFOS was persistent, bioaccumulative and unexpectedly toxic (16). Ultimately 3M ceased production of PFOS in 2002. 3M also found PFOA in human blood as part of their PFOS studies (16). In June 2000 the USEPA

expanded their investigation to include other PFCs, including PFOA, in order to determine if other PFCs represent similar concerns as PFOS (16).

In 2003 the USEPA issued a request for information on PFOA and a solicitation to interested parties to develop enforceable consent agreements (ECAs) (16). To date over 1,300 documents have been submitted to the USEPA under this request, and are available at www.regulations.gov under docket EPA-HQ-OPPT-2003-0012.

A final ECA between the USEPA and AGC Chemicals Americas, Inc.; Daikin America, Inc.; Dyneon, LLC; and E.I. du Pont de Nemours and Company (the Companies) was published in the Federal Register on July 8, 2005 (21). In the ECA, the Companies agreed to perform incineration testing of four fluoropolymer chemicals to determine whether incineration of these fluoropolymers is releasing PFOA to the environment.

A Memoranda of Understanding (MOU) between the USEPA, 3M Company and Dyneon, LLC was executed in October 2004 for PFOA site-related environmental assessment program (22). The MOU calls for a phased approach for additional environmental monitoring and other data collection, particularly in the areas of soil, biota and off-site monitoring, at 3M and Dyneon sites in Decatur, Alabama. A similar MOU was executed in November 2005 between the USEPA and E.I. Dupont De Nemours and Company (Dupont) for the Dupont Washington Works facility in West Virginia.

In January 2006, USEPA and eight major PFC manufacturing companies (3M/Dyneon, Arkema, Inc., AGC Chemicals/Asahi Glass, Ciba Specialty Chemicals, Clariant Corporation, Daikin, E.I. duPont de Nemours and Company, and Solvay Solex) created the 2010/15 PFOA Stewardship Program. The companies committed to reduce facility emissions and product content of PFOA, PFOA precursor chemical, or PFOA-related homologues by 95 percent by 2010, and to work toward eliminating emissions and product content by 2015. As part of the program the companies submit annual reports on their progress toward reaching the goals. Information regarding the 2010/15 PFOA Stewardship Program is available at www.regulations.gov in docket EPA-HQ-OPPT-2006-0621.

Partially in response to 3M's phase out of PFOS-based firefighting foams and the USEPA's 2003 request for information regarding PFOA, several manufacturers of firefighting foams came together to form the Fire Fighting Foam Coalition (FFFC) to educate and help persuade regulatory and legislative decision-makers that foams are a valuable component in firefighting (www.fffc.org). The FFFC presented data to the USEPA under docket EPA-HQ-OPPT-2003-0012 showing that (1) C6 fluorinated surfactants are the key ingredient in telomer-based AFFF agents, (2) telomer-based AFFFs do not contain nor degrade to PFOS, and (3) telomer-based AFFFs are not made with PFOA-based products (23). The FFFC proposed that telomer-based firefighting foam products no longer be considered as part of the ECA process. The

USEPA Telomer Technical Workgroup agreed, but the USEPA noted that it is interested in the newer C_6 fluorinated surfactants and the stockpiles of older fluorochemical firefighting foams (24).

3.0 FIREFIGHTING FOAM

Delta researched information available at the websites for various manufacturers of firefighting foams; websites for various firefighting organizations and entities, including the Fire Fighting Foam Coalition, the Minnesota State Fire Marshal, the National Fire Protection Association, the U.S. Fire Administration, and the branches of the U.S. military; and, multiple periodicals at the Fire/EMS/Safety Center Library of the Minnesota State Colleges and Universities (MNSCU).

With the introduction and proliferation of the automobile and other petroleum-powered engine came the need for something other than plain water to fight petroleum (and other hydrocarbons) fires. Thus began the development and refinement of firefighting foams.

All types of firefighting foams are made to do four things: form a self-sealing layer of foam over the surface of a burning liquid; insulate the liquid from the heat generated by the fire; suppress vapors associated with the fire; and, deprive the fire and liquid of oxygen (25).

3.1 Development and Types of Firefighting Foams

Prior to the 1960s, firefighters utilized detergent- or protein-based foams for hydrocarbon fuel fires. Early detergent foams were simple solutions of soap and water that were aerated to form a foamy layer that would float on the surface of the burning hydrocarbon, thus depriving the fire of oxygen (25). Later, protein-based foam concentrates were developed as a cheaper alternative to detergent foams. Protein-based foams have a base of organic protein matter such as animal carcasses, hoof or horn meal or other animal parts, combined with other chemicals added to stabilize the concentrate, inhibit the potential for corrosion, and lower their freezing temperature (26). Early protein-based foam concentrates tended to smell rancid, were slimy, corroded metal containers, and had a short shelf life (26). Protein foams produce a stable, homogenous foam layer with good heat resistance and vapor suppression, but have a slow fire "knockdown" time (27). Detergent-based foam concentrates are synthetic "industrial strength" soap concentrates that generate large quantities of foam (26). Protein- and detergent-based foams are intended for use on hydrocarbon fuel fires, or Class B fires, only.

In 1965, fluoroprotein (FP) foam concentrates were developed in an effort to improve existing protein foams (28). Protein foams developed in the mid-1930s offered better heat resistance than detergent foams, but they were stiff and slower in fire knockdown than detergent foams and did not flow well across a burning hydrocarbon fuel surface (28). Fluorochemical surfactants were later added to protein foam concentrates to create a foam that flowed better across the burning surface and shortened fire knockdown time (28)(26).

In the early 1960s the U.S. Naval Research Laboratory conducted research on fire suppression that lead to the development of aqueous film-forming foam (AFFF) with fluorochemical-based surfactant for use on hydrocarbon fuel fires (29). 3M, in conjunction with the U.S. Navy, began production of AFFF in 1962 (30)(31). The fluorochemical-based surfactant in AFFF reduces the surface tension of water and forms an aqueous film on the surface of the hydrocarbon fuel that (1) suppresses vapors, (2) deprives the fuel surface of oxygen, and (3) prevents evaporation and subsequent re-ignition of the fuel (28)(29). Further, holes made in the aqueous film by falling debris are quickly resealed by the fluorochemical-based surfactant (29). The fluorochemistry used in AFFF best facilitates the reduction of the surface tension of water and the formation of a uniform film on the surface of the hydrocarbon fuel. While 3M was the original manufacturer of fluorochemical-based AFFF using the ECF process, other manufacturers later used telomer-based fluorochemical surfactants in their AFFF.

Fluoroprotein polar foam was introduced in the mid-1960s, which, in addition to hydrocarbon fuel fires, was also effective on polar solvents such as alcohol, acetone, methyl ethyl ketone, thinners and other flammable liquids (28). The polar foams do everything non-polar foams do, but also work on water-soluble solvents (28). Water soluble polar solvents will dissolve the water in regular non-polar foams (28). In the mid-1970s an aqueous film-forming polar foam was developed (28). These polar foams are referred to as alcohol-resistant (AR) foams.

In the early 1980s, film-forming fluoroprotein (FFFP) foam was introduced (28). FFFP is a protein- or soap-based foam that combines the superior heat resistance of an FP and the faster knockdown quality of an AFFF (28). FFFP foam is also available as FFFP-AR.

While Class B firefighting foams are used on Class B fires involving flammable or combustible fuels, Class A foams are for use on wildfires and other Class A combustibles such as wood and paper. The development of Class A foams came about in the 1980s because of work in the area of wildland fire control (32). Class A foam is made with a hydrocarbon-based surfactant that reduces the surface tension of water and allows more surface area of the water to contact the combustible surface. And, because it is hydrocarbon-based, the Class A surfactant also has an affinity for carbon and causes the foam/water solution to penetrate into the wood or other burning combustible with greater efficiency (32)(33). Thus Class A foams are said to act as a "wetting agent." Class A foam concentrates are synthetic, detergent-based foams with a *hydrocarbon-based surfactant* (32). This indicates that Class A foam concentrates are not made with perfluorocarbon-based surfactants and thus would not contain PFCs. Mr. Mitch Hubert with Tyco Fire & Security, maker of Ansul firefighting foams, is not aware of any Class A foams that are made with PFCs or other fluorinated compounds. Mr. Tom Cortina of the of the Fire Fighting Foam Coalition and Mr. Dominic Colletti, co-author of *The Rural Firefighting Handbook* and other firefighting publications also indicated in e-mail correspondence that they believe Class A foams do not contain fluorinated compounds.

Training foams are similar to Class A and Class B foams but are made specifically for fire training exercises and do not contain chemical components for firefighting performance. Training foams are available from most manufacturers and are generally less expensive because they do not contain (costly) fluorinated surfactant components (7). Thus training foams are not made with PFCs. A survey of municipal fire departments in Minnesota (see **Section 4.0**) found that many departments train with dishwashing soap as the concentrate added to water.

Class B foam concentrations are typically sold in 1%, 3% or 6% solutions, while Class A foam solutions range from 0.1% to 1% (32). For example, use of a 3% foam concentrate means that 3 gallons of concentrate will be mixed with 97 gallons of water prior to or during discharge (26). Firefighting foams are sold as a concentrate and are typically available in 5-gallon pails, 55-gallon drums, and 275-gallon totes. The concentrate is mixed with water, either manually or through an automated system, to form a foam that is applied to blanket a fire or flammable liquid.

3.2 Application of Firefighting Foams

All types of foam concentrates are combined with water at various ratios using an in-line eductor or other proportioning/mixing device (25). The foam concentrate/water solution can then be fed through one of two types of discharge devices, either a nozzle-aspirated foam system (NAFS) or a compressed air foam system (CAFS) (25)(34). A nozzle-aspirated system draws atmospheric air into the solution at the nozzle end of the hose, while a compressed air system forces compressed air (or nitrogen or other inert gas) into the foam solution (25)(34). Both systems produce a finished foam that is a combination of water, air and foam concentrate. Varying the ratios of these three ingredients affects the physical structure of the finished foam product. More air in the mix will produce a stiffer foam, while less air produces a more liquid, heavier foam. Generally, a compressed air system produces a finished foam with a much higher expansion ratio (25)(34).

Fire engines can be equipped with an on-board reservoir to carry water and foam. Pumper and tanker trucks typically carry 500 to 1,500 gallons of water and 20 to 25 gallons of foam. Foams are also carried on fire engines in 5-gallon containers.

Finished foams are classified as either low-, medium- or high-expansion foams (28)(32). The expansion rates refer to the ability of the foam solution to hold air. Low expansion foams expand at a ratio up to 20:1, medium expansion foams expand from 20:1 to 200:1, and high expansion foam ratios are more than 200:1 (28)(32). For example, a low expansion foam of 10:1 ratio means that 100 gallons of foam solution expands 10 times to produce 1,000 gallons of finished foam (32). Most Class B foams are low to medium expansion foams. High-expansion foams are usually Class A foams.

3.3 Users of Firefighting Foams

The military is the largest user of firefighting foams in the U.S., comprising 75% of the market (7). From the early 1960s until 1982, 3M was the sole supplier of AFFF to the U.S. military (5). From 1983 to 1988 both 3M and Ansul Inc. supplied the military with AFFF (5). 3M was again the sole supplier to the military from 1989 to 2001, and Kidde National Foam has been the military supplier of AFFF since 2002 (5). The military specifications for firefighting foams have largely driven the performance requirements and thus technological advancements in foams (7). A 2000 report indicated municipal fire departments make up approximately 13% of the firefighting foam market, and hydrocarbon-processors (ie. refineries) comprise 5% of the market (7). Other users of firefighting foam include aviation, non-military ships and off-shore drilling platforms, and other petro-chemical manufacturers.

A 2004 study of inventories of AFFF firefighting foams in the U.S. estimated the following quantities of AFFF on-hand for the following user categories, from most to least (35):

- 2,738,375 - 3,032,575 gallons for the U.S. Military and other federal agencies
- 1,330,065 - 1,937,319 gallons for civil aviation, including airport fire departments
- 2,725,000 - 5,075,000 gallons for oil refiners and other petro-chemical industry
- 884,000 - 1,836,000 gallons for municipal fire departments
- 97,500 - 202,500 gallons for miscellaneous applications
- 60,000 - 100,000 gallons for ships and off-shore drilling

3.4 PFCs in Firefighting Foams

As previously described, Class B firefighting foams made by 3M prior to 2002 using the ECF process generated PFOS and PFOA as a breakdown product. Class B foams made by 3M using the ECF process are the only firefighting foams that degrade to PFOS (9). As discussed in **Section 3.5**, Class A foam was made for 3M by an outside company (Coverfoam) and was not made with PFCs. And, 3M's training foam was not made with PFCs.

As mentioned in **Section 2.2.2**, Mr. Tom Cortina of the FFFC indicated that telomer-based AFFF fluorosurfactant agents are 75% to 80% C6 in content, with the rest C8 or higher homologues. Studies performed in part by the University of Oregon into PFCs in groundwater at military fire training sites found that the primary breakdown product of telomer-based AFFFs was 6:2 fluorotelomer sulfonate (6:2 FtS), though 4:2 and 8:2 FtS were also detected in groundwater (15). As discussed in **Section 2.2.2,** the research also indicated that AFFF concentrate contains only a small amount of fluorotelomer sulfonates, with fluoroalkylthioamido sulfonates being the main anionic fluorosurfactant in the mixture (15). Dr. Field and her colleagues hypothesize that fluoroalkylthioamido sulfonates may break down to 6:2 and 8:2 telomer sulfonates in the environment, and further research is also needed to determine if 8:2 telomer sulfonates break down to PFOA.

Thus, while Class B foams manufactured by 3M using the ECF process are known to contain or generate PFOS and PFOA, further research is needed to determine if other Class B firefighting foams produced by a telomerization process generate PFOA.

As discussed in **Section 3.1**, Class A foams and training foams are not made with fluorocarbon surfactants and thus do not contain PFCs.

3.5 Manufacturers of Firefighting Foam

Internet websites for the various U.S. manufacturers of firefighting foams were accessed in order to obtain information regarding who the manufacturers are, and what types and brands of foam are available. A list of U.S. manufacturers of firefighting foams and their brands of foam are listed in **Table 1, *U.S. Manufacturers of Firefighting Foams*.**

U.S. manufacturers of firefighting foams were surveyed regarding the composition of their firefighting foams, the degradation of PFCs in the foams, and the brand names of foams made now and in the past. Copies of the survey questionnaire and cover letters with the manufacturers' addresses and contact information are included in **Appendix A**. Survey questionnaires were sent to the U.S. manufacturers of firefighting foams listed below.

- 3M
- Buckeye Fire Equipment
- Chemguard
- Dupont
- Kidde Fire Fighting (National Foam, Angus and Feecon are subsidiaries of Kidde Fire Fighting)
- ICL Performance Products, maker of Phos-Chek
- Summit Environmental, maker of FirePower 911 with FlameOut
- Tyco Fire and Security, maker of Ansul foams
- U.S. Foam Technologies
- Williams Fire & Hazard Control
- Verde Environmental
- Fire-Trol Holdings LLC
- Dynax

A questionnaire was not sent to Hazard Control Technologies as Delta's initial research did not identify this company as a firefighting foam manufacturer. Hazard Control Technologies was found when use of their F-500 foam was indicated on returned questionnaires from municipal fire departments (see **Section 4.0**).

Questionnaires were completed and returned to Delta by 3M, Dynax and Williams Fire & Hazard Control. Copies of the completed questionnaires are included in **Appendix A**. The manufacturers provided the following information:

- Mr. Michael Santoro, Director of Regulatory Affairs with 3M, indicated that 3M produced firefighting foams using PFCs made with the ECF process only, and did not use a telomerization process, and that 3M discontinued the manufacture and development of firefighting foams. 3M foams are not known to contain or degrade to PFBA. The following foams made by 3M were made with PFCs and contain or degrade to PFOS:
    - Lightwater™ AFFF military spec foam produced from 1960 through 2002;
    - Lightwater™ AFFF commercial foam produced from 1965 through 2002;
    - Lightwater™ ATC, an AR-AFFF made from approximately 1980 through 2000

  3M also manufactured a Class A foam that was not made with PFCs, and a 3M-brand training foam made for 3M by Coverfoam was not made with PFCs.
- Dr. Eduard Kleiner, President, Dynax Corporation, indicated that Dynax, founded in 1991, is a producer of fluorosurfactants and fluorochemical foam stabilizers, but does not produce firefighting foam agents. Dynax fluorosurfactants/foam stabilizers are used by agent manufacturers for the production of AFFF, AR-AFFF, FFFP, AR-FFFP, and FP foams. Dynax's fluorosurfactants/foam stabilizers are only made using a telomerization process, and are not derived from nor degrade to PFOS, PFOA or PFBA.
- Williams Fire & Hazard Control indicated that they do not manufacture firefighting foam. Information from the Williams Fire & Hazard Control website (www.williamsfire.com) indicates they make PKW™, a specialized siliconized potassium bicarbonate-based dry chemical used to extinguish Class B liquid fires.
- The survey sent to Summit Environmental in Dallas, Texas was returned to Delta by the U.S. Post Office and stamped "forwarding order expired." It appears that Summit Environmental sold their FirePower 911 low density foam to a Norwegian company in 2001.

Brand names and other information, including material safety data sheets (MSDSs) in some cases, for all the U.S. firefighting foam manufacturers are available on the internet. Review of MSDSs for various brands of firefighting foam did not reveal whether or not foams were made with PFCs, and information available from the websites of the foam manufacturers did not provide additional information regarding the presence of PFCs in their foams.

4.0 USE OF FIREFIGHTING FOAMS IN MINNESOTA

In order to gain an understanding of the organizations in Minnesota that utilize firefighting foam, what types and quantity of foam are being used, and where the foams are being used in training exercises, Delta searched the websites of firefighting organizations, interviewed individuals commonly known to be involved in or associated with firefighting in Minnesota, and surveyed the users of firefighting foams in Minnesota regarding their foam use.

The website for the Minnesota Fire Marshal (www.fire.state.mn.us) has a list of Minnesota Fire Departments as of July 2006 available in an Excel spreadsheet format, and a State map showing the locations of all fire fighting service areas.

The Minnesota Fire Service News website (www.minnesotafireservice.com) includes a listing of firefighting training schools in Minnesota, along with school contacts, mailing addresses, and phone numbers. This site also provided links to municipal fire departments in Minnesota that have their own websites.

The Minnesota Incident Command System website (www.mnics.org) provided general information about partnerships between State and Federal firefighting organizations.

4.1 Interviews with Minnesota Firefighting Organizations

In order to gain a better understanding of the organizations that utilize firefighting foam across the State, Delta interviewed via telephone and/or e-mail several individuals commonly known to be involved in or associated with firefighting in Minnesota.

Mr. Jerry Rosendahl, State Fire Marshal, (651)201-7201 was contacted via telephone on April 4, 2008. Mr. Rosendahl indicated that a directory of all municipal fire departments is included on the State Fire Marshal's website at www.fire.state.mn.us. Mr. Rosendahl indicated that the Minnesota Department of Natural Resources (MN DNR) trains fire fighters at the Minnesota Interagency Fire Center in Grand Rapids. He also related that the Flint Hills and Marathon refineries had their own fire departments, and suggested that Delta contact Don Beckering at the Minnesota State Colleges and Universities (MNSCU) system.

Mr. Don Beckering, State Director of Fire Training, MNSCU, (651)649-5411 was interviewed on April 4, 2008, regarding his knowledge of firefighting foams and departments in the State using foams. Mr. Beckering indicated that the MNSCU system switched to (biodegradable) soap surfactant instead of regular firefighting foam approximately three to four years ago. Prior to that they used AFFF or AR-AFFF made by 3M. Mr. Beckering was aware that, in addition to municipal fire departments, the following entities use or may use firefighting foam: the airports at Rochester, St. Cloud, St. Paul, Flying Cloud, Anoka, Duluth, and the new and old facilities at Minneapolis/St. Paul International; the National Guard base at Camp Ripley; the Marathon oil refinery in St. Paul Park; and, the Pine Bend refinery in Rosemount. MNSCU offers firefighting training at approximately 20 of their schools.

Mr. Robert Berg, Home Security Planner, Minnesota Department of Homeland Security and Emergency Management (MN HSEM), (651)201-7444 was contacted via telephone on April 28, 2008. Mr. Berg indicated that the MN HSEM does not do any type of firefighting. Mr. Berg has been involved in fire

training since 1970 and provided other information regarding firefighting training organizations in Minnesota. Mr. Berg estimated that approximately 30% of municipal fire departments across the state use firefighting foam. He related that MNSCU and the network of associated technical colleges train with firefighting foam and indicated that a private contractor, Dale Mafluga with F.I.R.E. Inc. also conducts firefighting training in the State. Mr. Berg was not aware of any training with firefighting foam conducted at the former Twin Cities Arsenal located in Shoreview.

Mr. Dale Mafluga, F.I.R.E. Inc., (612)799-4100 was contacted via telephone on April 29, 2008, regarding their training. Mr. Mafluga indicated that they do not conduct training with firefighting foam. Mr. Mafluga indicated that the Flint Hills Refinery probably has more foam than any other department in the State, and he believes they reclaim their spent foam. Mr. Mafluga provided contact information for the fire departments at the Ashland Refinery and the Flint Hills Refinery.

Ms. Barb Meyer, Forestry Program Coordinator, MN DNR, (651)437-0643 was contacted via telephone on April 29, 2008. Ms. Meyer indicated that the MN DNR is partnered with several other State agencies in the Minnesota Incident Command System (MNICS) through which common fire training is provided. The Northeast Fire Cache located in Grand Rapids is jointly operated by the MN DNR and the U.S. Department of Agricultural Forest Service where firefighting equipment is stocked. Ms. Meyer explained that fire training is generally conducted at other (MNSCU) facilities, including the ones in Duluth and Grand Rapids. Mr. Meyer recalled one foam demonstration conducted some time ago in a parking lot at Giants Ridge resort in Biwabik, but indicated that such demonstrations were not commonplace.

Mr. Tom Staydohar, MN DNR, MNICS, Grand Rapids, (tom.staydohar@dnr.state.mn.us) responded to Delta's request for information on April 22, 2008, via telephone. Mr. Staydohar works in the MNICS warehouse in Grand Rapids. Mr. Staydohar indicated they only stock Class A foam, and that training with the foam is not conducted at the MNICS facility. He explained that training is conducted at other schools and local fire stations. Mr. Staydohar indicated that they go through approximately 2,500 to 3,000 gallons of Class A foam per year. Currently they stock Ansul Silv-ex Class A foam, and Fire Trol Class A foam was used in the past. He also recalled that they have used Monsanto PhosCheck D881 for air release over woodland or grassland fire. Mr. Staydohar said that they have not used 3M firefighting foam, that the 3M foam did not pass their laboratory tests performed to ensure the foam meets the Forest Service specifications.

Ms. Mary Ann Wittkop, Airport Executive Secretary, Duluth International Airport, (mwittkop@duluthairport.com) responded to Delta's request for information on April 8, 2008 via email. Ms. Wittkop indicated that the Minnesota Air National Guard is responsible for fire and emergency services at the Duluth International Airport, and that the Fire Chief is Dave Dodge. Mr. Dodge can be contacted at david.dodge@mndulu.ang.af.mil or (218)788-7273.

St. Cloud Regional Airport, (320)255-7292, was contacted on June 6, 2008, regarding firefighting at the airport. It was indicated that the City of St. Cloud fire department is responsible for fire response at the airport. St. Cloud Deputy Fire Chief Dean Wrobbel, (320)650-3528, confirmed that the City of St. Cloud fire department responds to fires at the airport, and that a city fire station is located at the airport.

4.2 Survey Mailing to Minnesota Firefighting Organizations

The MPCA and Delta prepared a questionnaire and explanatory cover letter requesting information from users of firefighting foams across the State of Minnesota regarding their use of firefighting foams. The users of firefighting foam in Minnesota were surveyed regarding current and historical types and amounts of firefighting foam used in firefighting and fire training, the locations of the fire training areas, and the fate of the spent training foam. The survey questionnaire also requested information about total annual foam use, and fire departments were asked whether or not the department uses a CAFS with a built in tank on their engine. Questionnaires were mailed out on April 16, 2008 to the following potential foam users in Minnesota:

- 785 municipal fire departments;
- All of the airports with dedicated fire departments: Minneapolis-St. Paul International Airport (MSP); Rochester International Airport; and, the Duluth International Airport.
- The following 16 colleges with firefighter training programs: Itasca Community College in Grand Rapids; Alexandria Technical College; St. Cloud Technical College; Minnesota West Community College in Marshall; Ridgewater College in Willmar; South Central College in North Mankato; Riverland Community College in Austin; Pine Technical College in Pine City; Hennepin Technical Colleges in Plymouth and Eden Prairie; Northland Community Colleges in Thief River Falls and East Grand Forks; Central Lakes College in Brainerd; Minnesota State Community College in Moorhead; Mesabi Range Community College in Virginia; and, Lake Superior Technical College in Duluth. Southwest State University in Marshall, Minnesota indicated that they do not offer a firefighting training program and that their program is only a business administration program for fire chiefs and captains.
- 2 petroleum refineries; and,
- Camp Ripley in Little Falls.

Copies of cover letters and questionnaires sent to the municipal fire departments, the airport fire departments, the oil refinery fire departments, and the fire training schools are included in **Appendix B**. A list of the municipal fire departments, schools, and other fire departments and their addresses is also included in **Appendix B**. The letters requested that questionnaires be returned to Delta by May 9, 2008. By May 9, 2008, approximately 290 responses had been received. In order to maximize the return, a second questionnaire was sent on May 23, 2008, to approximately 525 municipal fire departments that had not responded to the initial request for information.

4.3 Minnesota Firefighting Organization Survey Results

Through June 13, 2008, Delta had received completed survey questionnaires from the following number of firefighting organizations:

- 433 of the 785 municipal fire departments in Minnesota;
- Airport fire departments at MSP, Rochester, and Duluth;
- 11 of the 16 colleges with firefighting programs;
- The Flint Hills Pine Bend Refinery in Rosemount and the Marathon Petroleum Refinery in St. Paul Park; and,
- Camp Ripley.

Survey results for each of these groups are discussed in **Sections 4.3.1** through **4.3.5**.

4.3.1 Survey Results - Municipal Fire Departments

Delta received a total of 433 completed questionnaires through June 13, 2008, from the 785 municipal fire departments that were surveyed, a response rate of 55%. Copies of the returned, completed questionnaires are included in **Appendix C**. Questionnaires received after June 13, 2008, were not included in this report. Municipal fire department questionnaire responses are summarized in **Table 2, *Municipal Fire Department Questionnaire Responses***. The following general findings and statistics were ascertained from the questionnaires:

- Of the 433 responding departments, 46 (or 10.6%) of the responding fire departments do not use firefighting foam at all. Fire departments that indicated they do not use firefighting foams are listed in **Table 3, *Municipal Fire Department with No Firefighting Foam Use***.
- Of the 433 questionnaires, 8 were unsigned and incomplete and were not included in any of the findings or statistics.
- Of the remaining 379 responding fire departments that use foam, 201 departments use only Class A or a combination of Class A foam and training foam, with no use of Class B foams.
- Of the remaining 178 responding fire departments that utilize Class B foams, 82 of the departments do not train with Class B foam. That leaves 96 of the responding fire departments that train, or potentially train, with Class B foams. Select questionnaire responses from these 96 responding fire departments that train, or potentially train, with Class B foams are summarized in **Table 4, *Municipal Fire Departments That Train With Class B Foams***.

Of the 379 responding departments that use foam, the types of firefighting foams listed below are reportedly used. Please note that some departments use more than one type of foam, and some departments use more than one brand of each type of foam (ie. one department may use Ansul Class A foam and 3M Class A foam).

- 357 departments use or have used Class A foam
- 92 departments use or have used Class B AR-AFF
- 73 departments use or have used Class B AFFF
- 21 departments use or have used training foam
- 7 departments use or have used Class A-B Hi-Expansion foam

- 4 departments use or have used Class B protein foam
- 1 department uses or has used Class B FFFP
- 1 department uses or has used Class B AR-FFFP
- 20 departments use "other" or unspecified types of foam

The brands of foams listed on the survey questionnaires were lumped into the following categories, based on the number of responses:

(1) 3M brand foam
(2) Ansul Silv-ex (Class A)
(3) Ansulite (Class B AFFF or AR-AFFF)
(4) Other or unspecified Ansul foam product
(5) Angus Forexpan S (Class A)
(6) Angus Hi-Combat (Class A or Class B AR-FFFP)
(7) Other or unspecified Angus foam product
(8) National Foam product
(9) Chemguard foam product
(10) Hazard Control Technology (HCT) F-500 A-B
(11) Pyrocom Aqua Stiks (Class A Turbo Stik and Class B AFFF Eco Stik)
(12) Other or unspecified foam product

The brands of foams used by the departments cited in the questionnaires, grouped by foam type, are listed in the *Foams Used by Responding Municipal Fire Departments* table below.

FOAMS USED BY RESPONDING MUNICIPAL FIRE DEPARTMENTS	
FOAM TYPE AND BRAND	**# OF RESPONSES**
Class A	
3M foam product	8
Ansul Silv-ex	208
Other or unspecified Ansul foam product	10
Angus ForexpanS	6
Angus Hi-Combat	25
Other or unspecified Angus foam product	44
National Foam product	2
Chemguard foam product	17
Pyrocom Aqua Stiks	8
Other or unspecified Class A foam	29
Class B AR-AFF	

FOAMS USED BY RESPONDING MUNICIPAL FIRE DEPARTMENTS	
FOAM TYPE AND BRAND	**# OF RESPONSES**
3M foam product	24
Ansulite	27
Other or unspecified Ansul foam product	5
Angus Hi-Combat	1
Other or unspecified Angus foam product	21
National Foam product	4
Chemguard foam product	6
Other or unspecified Class AF-AFFF foam	4
CLASS B AFFF	
3M foam product	33
Ansulite	6
Other or unspecified Ansul foam product	2
Other or unspecified Angus foam product	10
National Foam product	2
Chemguard foam product	4
Pyrocom Aqua Stiks	4
Other or unspecified Class AF-AFFF foam	12
Other Foam	
HTC F-500 A/B Foam	12

*Ansul Silv-ex is a Class A foam. Questionnaire responses that listed Silv-ex as a Class B foam were counted as a Class A foam, unless Silv-ex was already included as a Class A foam on the questionnaire, in which case the second Silv-ex foam was counted as an unspecified product.

Of the 96 responding municipal fire departments that train, or potentially train, with Class B foams (see **Table 4**), they train with foam with the following frequency:

- 2 train monthly
- 5 train quarterly
- 11 train semi-annually
- 44 train annually
- 21 train bi-annually
- 12 train occasionally
- 1 department that trains off-site did not specify

Of the 96 responding municipal fire departments that train, or potentially train, with Class B foams, the following foam amounts per training event were reported:

- 62 of the departments use less than 5 gallons
- 15 departments use 5 gallons
- 17 departments use 5 to 10 gallons
- 1 department uses more than 10 gallons: St. Cloud uses 20 gallons of Class B AR-AFF Chemguard foam and 40 gallons of Chemguard training foam per event.
- 1 department that trains off-site did not specify

Of the 96 responding departments that use, or potentially use, Class B foam in training, spent training foam goes in part or in full to one or more of the following locations:

- 78 of the departments' spent foam goes, fully or in part, to the ground
- 25 departments' spent foam goes fully or in part to a storm sewer
- 2 departments (Apple Valley and Crosslake) send some portion of the spent foam to a sanitary sewer
- 1 department's spent foam, the North Metro Fire Training Center in Fridley, goes to an on-site retention pond.
- 1 department did not specify

4.3.2 Survey Results - Airport Fire Departments

Copies of the returned, completed questionnaires from all of the airports surveyed are included in **Appendix D**. Airport fire department questionnaire responses are included in T**able 5, *Questionnaire Responses from Airport and Refinery Fire Departments and Training Schools.***

Ms. Toni Howell, Manager of Environmental Affairs with the Metropolitan Airports Commission, (612-726-8100) indicated that the MSP airport is the only airport operated by MAC that has its own fire department. Other MAC airports are served by the following municipal fire departments: the downtown St. Paul Airport (Holmen Field) is served by the City of St. Paul; Airlake is served by the City of Lakeville; Anoka County is served by the Blaine-Spring Lake Park-Mounds View fire department; Flying Cloud is served by Eden Prairie; Crystal Airport is serviced by the West Metro Fire District; and, the Lake Elmo Airport is serviced by the Lake Elmo fire department. In addition to completing the survey questionnaire, Ms. Howell provided the following pertinent information:

- Training with firefighting foam takes place on concrete-paved areas with covered or plugged drains on airport property, including the Humphrey Terminal remote ramp and/or de-icing pads.
- Spent foam is removed from the plugged concrete areas by a licensed contractor who pumps out the spent foam and transports it off site for discharge to the sanitary sewer system.
- The MSP fire department utilized firefighting foam manufactured by 3M through approximately 2000, when they switched to Ansul 3% AFFF. Currently they use approximately 200 to 250 gallons of Ansul 3% AFFF annually for training and fire response.

The Rochester Airport Fire Department survey was completed by Assistant Airport Manager Kurt Claussen. Mr. Claussen indicated that the Federal Aviation Administration (FAA) requires annual training and testing of fire fighters and fire equipment. The fire fighters are trained off-site at a facility in Duluth. FAA inspectors randomly choose sites on the airport property for equipment testing, but Mr. Claussen stated that the sites where foam is discharged are typically the runways. The foam equipment tests require a short burst of foam to show that the operator and the fire truck are functioning properly. Less than 5 gallons of Chemguard foam is used annually for training.

The Duluth International Airport fire department survey was completed by Senior Airfield Firefighter John Farnham of the Minnesota Air National Guard 148th. Mr. Farnham indicated that no training with foam is currently taking place at the airport, and that there is an ongoing site investigation for PFCs at the previous fire training site. Mr. Farnham related that Jane Mosel of the MPCA is the point of contact for that investigation. Up to 100 gallons annually of firefighting foams made by 3M and Chemguard are used at the Duluth International Airport for firefighting.

4.3.3 Survey Results - Firefighting Training Schools

Survey questionnaires were returned by 11 of the 16 firefighting training schools, all of which are in the MNSCU system. Copies of the returned, completed questionnaires from the training schools are included in **Appendix E**. Airport fire department questionnaire responses are included in **Table 5.**

The following schools reportedly train with Class A and/or training foams only:

- Northland College in Thief River Falls;
- Mesabi Range College in Virginia;
- Pine Technical College in Pine City;
- Ridgewater College in Willmar;
- Riverland Community College in Austin; and,
- Hennepin Technical College in Plymouth; training is conducted at the Hennepin Technical College in Plymouth. The Hennepin Technical College in Plymouth did not respond to the survey.

One school, the Itasca Community College in Grand Rapids, indicated that they do not train with foam.

The Lake Superior College has their own fire training center in Duluth, and other fire departments use this training center. Academic supervisor David Sarazin indicated that they use less than 5 gallons of Class A foam annually for training, and that Trainol training foam is used for Class B fire training. Outside departments using the training center use Trainol training foam provided by the school. Spent foam is directed to an on-site treatment facility. Mr. Sarazin indicated on the questionnaire that they historically used AFFF, AR-AFFF, and protein foam manufactured by 3M.

The South Central College in North Mankato trains at the college and at various fire departments. They indicated that they train monthly using 5 gallons of Class A Silv-ex foam. In addition, other fire departments may train at the college and bring in their own foam, discharging 5 to 25 gallons annually of their own foam. It was not clear if all of the college's foam and other departments' foam is used in training at the college or at the fire department locations, or a combination of both. For the purpose of the site ranking, it was assumed that all of the foam is used at the college, and that 3M foam may be brought in by the other fire departments.

4.3.4 Survey Results - Petroleum Refineries

Copies of the returned, completed questionnaires from the Minnesota petroleum refineries are included in **Appendix F**. Refinery questionnaire responses are included in **Table 5**.

The survey questionnaire from the Marathon petroleum refinery in St. Paul Park was completed by Fire Chief Steve Crisp. Training with foam occurs semi-annually at the refinery fire training grounds, and approximately 50 to 100 gallons of Ansul ThunderStorm foam is used per training event. Other municipal departments train at the refinery training grounds, but they do not bring in their own foam; they use the foam provided by the Marathon refinery fire department. Mr. Crisp indicated that foam is only used occasionally in training with other departments to demonstrate foam capabilities. Spent training foam is collected into an on-site septic system. Fire Chief Crisp indicated that Marathon previously used 3M firefighting foam but switched to ThunderStorm in approximately 2000. Total annual foam use for fire response varies: a January 2008 fire required 2,000 gallons of foam to extinguish; and, a tank fire in 2004 needed 6,500 gallons of foam to put it out.

Deputy Fire Chief Pete Herpst with the Flint Hills Resources' Pine Bend Refinery in Rosemount completed the survey questionnaire. Training with foam takes place approximately 20 to 25 times during the training season from April through November. Approximately 5 to 10 gallons of Ansul ThunderStorm foam is used per training event, with an estimated 300 gallons used annually for training. Other municipal departments train at the refinery training grounds, but they do not bring in their own foam. Spent training foam is captured on a concrete pad, collected into a lined holding area, and routed to the on-site waste water treatment plant. Fire Chief Herpst indicated that they used to use 3M foam for training and currently have a stockpile of approximately 50,000 gallons of 3M foam.

Since the former Conoco-Phillips oil refinery in Wrenshall, Minnesota ceased operation in the early 1980s, a questionnaire could not sent be to the refinery. The Wrenshall Volunteer Fire Department Fire Chief Nick Shanda was interviewed via telephone on June 17, 2008, and indicated that he trained at the Wrenshall refinery when it was in operation. Mr. Shanda indicated that the refinery had their own fire truck and firefighting foam, and had personnel trained to fight fires, but the Wrenshall Volunteer Fire Department responded to any fire calls.

4.3.5 Survey Results - Camp Ripley

The Camp Ripley survey questionnaire was completed by Tom Rothleutner, Roads & Grounds Supervisor, Army National Guard, and returned to Delta by Pat Boone, Fire and Emergency Services Coordinator for Camp Ripley. Mr. Boone indicated that his position at Camp Ripley had been created approximately one year ago and he is not familiar with historical firefighting practices at Camp Ripley. Mr. Rothleutner indicated that no firefighting training with foam is currently being conducted at Camp Ripley, and estimated that approximately 50 gallons of Class A Fire-Trol Firefoam 103B is being used annually for fire response.

A copy of the questionnaire returned by Camp Ripley is included at the end of **Appendix F**.

5.0 RANKING CRITERIA FOR FIREFIGHTING FOAM TRAINING SITES

The training sites where Class B firefighting foam is used were ranked in order to identify those with the highest potential to create PFC impacts to the soil, groundwater and surface waters. The sites were ranked according to the criteria listed below in **Section 5.1**. Delta assigned a relative numerical score for each criteria that was meant to reflect the relative importance of each parameter with respect to its potential to release PFCs to the environment and the sensitivity of the environmental receptors.

5.1 RANKING CRITERIA

The following criteria were considered in ranking training sites on their potential to have PFC impacts:

1. Type of Foam. Due to the content of PFOS and PFOA in firefighting foams manufactured by 3M, training sites where 3M foams were currently or formerly used in training are more likely to exhibit PFC impacts in the environment than sites where other brand Class B foams are/were used. Some fire departments indicated that 3M foams are currently or were historically used in training, and some simply indicated that 3M foams are or were used by the department without commenting specifically on their use in training. Some fire departments did not indicate what brand of foam is or was used. For the scoring purposes, departments that indicated the use of 3M foams without specific reference to their use in training, and departments that did not specify a foam brand, were assumed to have used the 3M foam in training.

   Sites where 3M foams were currently or formerly used in training were assigned a score of 8.

2. Annual Foam Usage for Training. The annual amount of Class B foam used in training was inferred from the departments' response to their frequency of training and the amount of foam used per training event.

   Sites that use 5 gallons or less of Class B foam annually for training were assigned a score of 2.

   Sites that use 5 to 10 gallons of Class B foam annually for training were assigned a score of 4.

   Sites that use more than 10 gallons of Class B foam annually for training were assigned a score of 6.

3. Nearby Surface Water. Training site locations were mapped using Mapquest (www.mapquest.com) and the Minnesota Department of Health's County Well Index (CWI) on-line mapping program (www.health.state.mn.us/divs/eh/cwi). The topographic map option on the CWI was used to identify nearby surface waters.

   Sites with surface waters located within 1/4 mile were assigned a score of 3.
   Sites with surface waters located between 1/4 and 1 mile away were assigned a score of 1.
   Sites with no surface waters located within 1 mile were assigned a score of 0.

4. Nearby Wetlands. Training site locations were mapped using the National Wetlands Inventory mapping program available at the National Fish & Wildlife Service's website (www.nwi.fws.gov).

   Sites with wetlands located within 1/4 mile were assigned a score of 3.
   Sites with wetlands located between 1/4 and 1 mile away were assigned a score of 1.
   Sites with no wetlands located within 1 mile were assigned a score of 0.

5. Karst Areas. Training site locations were compared to a map of karst areas in Minnesota prepared by E. Calvin Alexander of the University of Minnesota. The map color codes the following karst areas in southeastern Minnesota: (1) active karst areas that are underlain by carbonate bedrock with less than 50 feet of sediment cover, (2) transition karst areas that are underlain by carbonate bedrock with 50 to 100 feet of sediment cover, and (3) covered karst areas that are underlain by carbonate bedrock with more than 100 feet of sediment cover. The map is available at www.pca.state.mn.us/water/groundwater/karst.html.

   Sites located in active karst areas were assigned a score of 5.
   Sites located in transition karst areas were assigned a score of 4.
   Sites located in covered karst areas were assigned a score of 2.
   Sites not located in karst areas were assigned a score of 0.

6. Nearby Water Wells. Training site locations were mapped using the MDH County Well Index (CWI) program available at (www.health.state.mn.us/divs/eh/cwi). The CWI mapping program displays well locations for wells that are registered with the MDH. Delta understands that not all water wells in the State are registered with the MDH, nor are all wells registered with the MDH mapped on the CWI. However, the CWI is a readily available tool for providing a cursory search of water wells in the areas of the training sites, and the use of the CWI to map wells is not intended to be an exhaustive well survey.

   Sites with water wells located within 1/4 mile were assigned a score of 3.
   Sites with water wells located between 1/4 and 1 away were assigned a score of 1.
   Sites with water wells located within 1 mile were assigned a score of 0.

7. Wellhead Protection Areas. The option to display State Wellhead Protection Areas on the CWI was used to identify Wellhead Protection Areas relative to the training site locations. Wellhead Protection Areas are areas that contribute water to a public water supply well where potential contaminant sources are managed to prevent contamination of a public water supply well.

   Sites located within or adjacent to a Wellhead Protection Area were assigned a score of 5.

   Sites located within 1/4 mile of a Wellhead Protection Area were assigned a score of 4.

   Sites located with a Wellhead Protection Area located between 1/4 and 1 mile distant were assigned a score of 2.

   Sites not located within 1 mile of a Wellhead Protection Area were assigned a score of 0.

Since the vast majority of spent training foams are released to the ground or go to a storm sewer, the final destination of the spent foam was not considered in ranking the training sites.

5.2 NON-RANKED TRAINING SITES

Municipal fire departments that indicated they use Class A foam, training foam, or dishwashing soap for training were not ranked. Municipal fire departments that indicated they only trained one time with foam and used less than five gallons of foam during that training were not ranked.

Fire departments that use firefighting foam but do not use foam in firefighting training were not ranked, as the use of firefighting foams in fire response calls was beyond the scope of this project.

Training sites where Class B foams are used, or potentially used, in training were located using Mapquest (www.mapquest.com). For sites that did not include a valid, mappable address, Delta attempted to pinpoint the site by searching other websites such as city municipal websites, local maps available on-line, and fire department websites. Some fire departments were contacted, or attempts were made to contact, via telephone or e-mail to obtain more specific training site location information. Some training sites were not mappable based on the information provided by the fire departments.

Some fire departments did not indicate a training site and thus could not be ranked.

Some fire departments train with foam only during live fires or at various unspecified locations; these sites could not be ranked.

6.0 TRAINING SITE RANKING RESULTS

A total of 70 training sites were ranked, including 62 municipal fire department training locations, 3 airport fire departments, 2 firefighting training schools, and 3 petroleum refineries. Rankings for the fire department and school training sites are presented in the following sections.

6.1 RANKING RESULTS - MUNICIPAL FIRE DEPARTMENTS

Ranking criteria and results for the municipal fire departments that train with, or potentially train with, Class B foams are included in **Table 4**.

Of the 96 departments that use, or potentially use, Class B foam in training:

- 16 indicated the use of multiple or various training locations and were not ranked since there is no one dedicated training site;
- 11 departments did not specify a training location and could not be ranked;
- 4 of the training sites indicated by the departments were not mappable and could not be ranked; and,
- 3 of the departments train off-site at a training school or refinery training facility and were not ranked.

For each of the 62 mappable municipal fire department training sites where Class B foams potentially are or were used in training, individual site profiles have been prepared. The site profiles include the following:

- site summary sheet
- CWI topographic map showing the site location, Wellhead Protection Areas (where present) and well locations
- well records for nearby wells
- wetland map
- MPCA *What's In My Neighborhood* map showing nearby release sites

The individual site profiles are included in **Appendix G**, in alphabetic order.

Scores assigned to the municipal fire department training sites ranged from 5 to 28. Sites assigned a ranking of 5 have not trained with 3M foam, use less than 5 gallons of foam annually for training, were not located in Wellhead Protection Areas or karst areas, and no surface waters, wetlands or water wells were located within 1/4 mile of the sites. The highest scores of were assigned to sites generally located in a Wellhead Protection Area and/or a karst area, had wells, wetland and/or surface water located within 1/4-mile of the site, and 3M foam is used for training at the site.

6.2 RANKING RESULTS - AIRPORT FIRE DEPARTMENTS

Ranking criteria and results for the airport fire departments are included in **Table 5**. Site profiles for the airports are included in **Appendix G**.

The MSP airport was ranked 33 due their historic use of 3M foam, their use of up to 40 gallons of foam annually for training, their location in a Wellhead Protection Area and an active karst area, and nearby wetlands and water wells.

The Rochester airport was ranked 16 based on its location in an active karst area and the presence of nearby surface waters, wetlands and water wells.

Although the training with firefighting foam is no longer conducted at the Duluth airport, the use of foam for fire response is essentially similar to a training site as it could be considered a "point source" of the release of firefighting foam. Thus, the Duluth airport was ranked based on its use of firefighting foam in fire response. The Duluth airport was ranked 23 due to their current use of 3M foam, their use of up to 100 gallons of foam annually for fire response, and nearby surface waters, wetlands and water wells.

6.3 RANKING RESULTS - FIREFIGHTING TRAINING SCHOOLS

Ranking criteria and results for the firefighting training schools that use, or potentially use, Class B foams in training are included in **Table 5**. Site profiles for the ranked training schools are included in **Appendix G**.

The schools where training with Class B foam may occur were ranked as follows:

- Lake Superior College in Duluth was ranked 17 due to their historic use of 3M foam and nearby surface waters and wetlands.
- South Central College in North Mankato was ranked 19 due to the potential use of 3M foams, their annual use of up to 60 gallons of foam on site, and their location in a covered karst area.

6.4 RANKING RESULTS - PETROLEUM REFINERIES

Ranking criteria and results for the petroleum refinery fire departments are included in **Table 5**. Site profiles for the refineries are included in **Appendix G**.

The Marathon petroleum refinery training site in South St. Paul was ranked 30, and the Flint Hills Resources Pine Bend refinery training site in Rosemount was ranked 23. Foam manufactured by 3M were historically used at both sites, both training sites are used for training other municipal fire departments, and large quantities of foam (250 gallons at Marathon and 300 gallons at Pine Bend) are used annually in training. The Marathon refinery appears to be located in an active karst area, and the Flint Hills Resources Pine Bend refinery is located in a transition or covered karst area.

Although the destination of spent foam was not considered in ranking the sites, it should be considered that the spent foam at the Marathon and Pine Bend facilities is directed to an on-site septic system and processed through on-site wastewater treatment plants.

For the purpose of ranking the former Wrenshall refinery, it was assumed that more than 10 gallons of Class B foam made by 3M was used in the training exercises. The former Wrenshall refinery was ranked

25, based on these assumptions and nearby surface water, wetlands, water wells, and Wellhead Protection Area.

6.5 RANKING RESULTS - CAMP RIPLEY

Since no firefighting training with foam is currently taking place at Camp Ripley it was not ranked.

7.0 CONCLUSIONS

7.1 PFCs IN FIREFIGHTING FOAM

The surfactants in Class B firefighting foams formerly manufactured by 3M were made using the ECF process and are known to contain or break down to PFOS and PFOA. The 3M Class A foam surfactants were not manufactured using PFCs, and training foams sold under the 3M label manufactured by a third party likewise did not contain PFCs.

The surfactants in Class B firefighting foams manufactured by companies other than 3M were made using a telomerization process. The telomer-based foams cannot break down to PFOS. Further, telomer-based foam surfactants are predominantly comprised of six-carbon chains (C6) which apparently cannot degrade to PFOA, which is an eight-carbon (C8) molecule. However, a portion (approximately 25% or less) of the telomer-based foam surfactants can contain C8 or higher PFC molecules. Further research is needed to determine of telomer-based (Class B) foams can break down to PFOA.

Class A foams and training foams are not made with PFC-based surfactants and are therefore not a source of PFCs in the environment.

Survey of municipal fire departments across the State found that:

- 10.6% of the responding municipal fire departments do not use firefighting foam at all.
- Of the responding municipal fire departments that utilize firefighting foams, 51% use only Class A foams, with no use of Class B foams.
- Of the responding municipal fire departments that utilize Class B firefighting foams, 46% do not train with Class B foam.
- Both of the active oil refineries in the State historically used large quantities (250 to 300 gallons) of 3M foams in training, but both switched to another brand of foam for training after 3M stopped making firefighting foam. Other municipal departments utilize the training facilities at the refineries.
- The MSP airport (MAC) fire department uses up to 40 gallons of Class B AFFF foam annually for training, and uses a total of 200 to 250 gallons of Class B AFFF foam annually for both training and fire response. The MAC fire department switched from 3M AFFF to another brand of AFFF in approximately 2000 or 2001.

7.2 HIGHEST RISK TRAINING SITES FOR PFOS/PFOA RELEASE

Since PFOS and PFOA are the primary PFC compounds of focus for this project, and since 3M foams are known to contain or degrade to PFOS and PFOA, then those firefighting training sites where 3M

foams have been used are more likely to release PFCs of concern to the environment. There were 34 departments that reported using 3M foam in training or where the type of foam was unspecified and 3M foam use was assumed. The ranked training sites where Class B foams manufactured by 3M are being or have been used are listed in **Table 6, *Training Sites with 3M Foam Use***. The sites are listed in order by (1) the amount of 3M foam used annually in training, and (2) overall ranking.

7.3 POTENTIAL NON-POINT SOURCES

Several municipal fire departments use or have used foams manufactured by 3M for fire responses, but do not use the 3M foams for training at one specific location. The areas covered by these fire departments may represent a non-point source for the release of 3M foams to the environment. The following municipal fire departments use or have used 3M foams for fire response but do not use 3M foam for training, or use 3M foam for training at unspecified or unmappable sites:

- Austin
- Balaton
- Benson
- Bloomington
- Centennial
- Cottonwood
- Dover
- Hastings
- Lake Elmo
- Little Falls
- Longville
- Madelia
- Marine-On-St. Croix
- Moorhead
- Nerstrand
- New Brighton
- Newport
- Northfield
- Pequot Lakes
- Prior Lake
- Randolph
- Robbinsdale
- Sleepy Eye
- Stewartville
- Thief River Falls
- Vadnais Heights
- Virginia
- Watertown
- Wayzata
- Willmar
- Zumbro Falls
- St. John's University in Collegeville

Only three municipal fire departments reported the use of 25 gallons or more of non-3M Class B foam annually for fire response or a combination of fire response and training: Burnsville Fire Department (60 gallons of Ansul AFFF/ATC 3/6); Winona Fire Department (45 gallons of Ansulite ARC AR-AFFF); and, Clear Lake Fire Department (25 gallons of Angus AR-AFFF). The use of high volumes of foam for fire response by these departments does not necessarily represent a point source of foam release to the environment, but these fire department areas may represent a non-point source of firefighting foam release to the environment.

8.0 RECOMMENDATIONS

Based on the findings of this research project, Delta recommends the following activities:

1. Further investigation of the sites listed in **Table 6** due to their use of firefighting foams manufactured by 3M in firefighting training. These training sites may represent a point source for the release of PFOS- and PFOA-containing firefighting foams manufactured by 3M.

   Further investigation of the sites listed in **Table 6** may include, but may not be limited to, the following activities:

   - Personal contact with each of the fire departments to obtain further information regarding their use of 3M foams in training and their training practices.
   - A site reconnaissance to observe the training site and surrounding area for site topography and drainage, karst features, nearby surface waters and wetlands, nearby water wells, and other potential receptors of PFCs in the environment. The site may also be observed for potential soil, groundwater and/or surface water sample locations.
   - The collection of soil, groundwater and/or surface water samples for laboratory analysis of PFOS, PFOA, and any other PFCs of concern to the MPCA.

2. Follow-up with the fifteen municipal fire departments that train or potentially train with AFFF that did not provide training site information such that the training sites could be located on a map. With additional information from the departments, the training sites should be mapped and the sites ranked.

3. Identification of and Investigation into fire sites where significant quantities of Class B foams have been released.

4. Follow-up with the manufacturers of firefighting foams that did not respond to the survey regarding the use of PFCs in their foams. Continued monitoring of literature regarding PFCs in firefighting foams for more information regarding PFOA, PFBA and other PFCs in telomer-based foams. If future research indicates the presence of PFOA, PFBA or other PFCs of concern in telomer-based Class B firefighting foams, Delta recommends re-examination of the data presented in **Tables 4 and 5** to identify departments that train with "significant " quantities of Class B telomer-based foams.

5. Expand the scope of additional activities to include other PFCs of concern that may be in firefighting foams, especially fluorotelomer sulfonates.

6. Update the tables included in this report with information from survey questionnaires returned after June 13, 2008, and any additional information obtained after June 30, 2008.

9.0 REMARKS

The recommendations contained in this report represent Delta's professional opinions based upon the currently available information and are arrived at in accordance with currently accepted professional standards. This report is based upon a specific scope of work requested by the client. The contract between Delta and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Delta's client and anyone else specifically identified in writing by Delta as a user of this report. Delta will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Delta makes no express or implied warranty as to the contents of this report.

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Date: 6/30/2008

Reviewed by:

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Date: 6/30/2008

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TABLES

Table 1	U.S. Manufacturers of Firefighting Foams
Table 2	Municipal Fire Department Questionnaire Responses
Table 3	Municipal Fire Department with No Firefighting Foam Use
Table 4	Municipal Fire Departments That Train With Class B Foams
Table 5	Questionnaire Responses from Airport and Refinery Fire Departments and Training Schools
Table 6	Training Sites with 3M Foam Use

TABLE 1

U.S. MANUFACTURERS OF FIREFIGHTING FOAMS

MANUFACTURER	CONTACT INFO	TYPES OF FOAM									
		Class B AFFF	Class B AR-AFFF	Class B Protein	Class B FP	Class B FFFP	Class B AR-FFP	Class A-B HiEx	Class A[2]	Training Foam[2]	Other
3M	Michael Santoro Director of Regulatory Affairs 3M Corporate Headquarters 3M Center St. Paul, MN 55144 (651)733-6374 www.3m.com	Lightwater[1]	Lightwater ATC[1]	--	--	--	--	--	Yes	Yes	--
Tyco Fire & Security (Ansul)	Colleen Repplier President 451 N. Cannon Ave. Lansdale, PA 19446 (215)393-0241 colleen.repellier@tycofp.com www.ansul.com	Ansulite 1% Ansulite 3% Ansulte Premium 6% ThunderStorm 3%	Ansulite 3x3 Low Viscosity Ansulite 3%/6% Ansulite ARC 3 or 6 ThunderStorm ATC 1%x3% ThunderStorm ATC 3%x3% ThunderStorm ATC 3%x6%	Ansul 3%	Ansul 3%	--	--	Jet-X 2 3/4%	Silv-Ex Ansul-A ThunderStorm SFFF	Ansul Training Foam	--
Dupont	Mark P. Vergnano Group Vice President DuPont Safety & Protection Barley Mill Plaza 4417 Lancaster Pike Wilmington, DE 19805 www.dupont.com	Forafac 1157 Forafac 1157N Forafac 1183 Forafac 1203	Forafac 1157 Forafac 1157N Forafac 1183 Forafac 1203 Forafac 1268	--	--	Forafac 1157 Forafac 1157N	Forafac 1157 Forafac 1157N Forafac 1210	--	--	--	--
Chemguard	John Viewager V.P., Sales & Marketing Fire Suppression Division 204 South Sixth Avenue Mansfield, TX 76063 817-473-9954 x206 www.chemguard.com	1%AFFF 3% AFFF 6% AFFF	Ultraguard 3% Ultraguard 1%-3% 3%-6% AR-AFFF 3%-3% AR-AFFF	--	3% FP	--	--	2% High Expansion	Class A Plus First Class USDA Forest Approved	Simufoam Supertrain	--
Kidde Fire Fighting	180 Sheree Blvd., Suite 3900 Exton, PA 19341 610-363-1400 www.kidde-fire.com	Foams manufactured by subsidiaries Angus, Feecon and National Foam.									
--Angus		Tridex 3% Tridex 6% Tridol S 1% Tridol S 3% Tridol LT 3% Tridol M 3% Tridol S 6% Tridol LT 6% Tridol M 6%	Tridex 3% Tridex 3-6	Nicerol HC 3% Nicerol 6%	FP70 Plus 3%	Petroseal 3%	Alcoseal 3-3% Alcoseal 3-6% Hi-Combat 3-6% Niagara 1-3 Niagara 3-3	Hi-EX	Hi-Combat A FirePower 0.1-1% Forexpan S 3%	Trainol	--
--Feecon		Cobra 3% Cobra 6%	Cobra 3%/3% Cobra 3%/6%	--	--	--	--	--	Cobra Class A	--	--
--National		Aer-O-Lite 1% Aer-O-Lite 3% Aer-O-Lite 6% Aer-O-Water 1% Aer-O-Water 3EM 3% Aer-O-Water 6EM 6% Centurion 3% Centurion 6%	Universal Gold 1%/3% Universal Low Viscosity 1%/3% Universal Plus 3%/6% Universal CG-6% Centurion 3% Centurion 3%/6%	Aer-O-Foam 3% Regular Aer-O-Foam 3% Cold Foam	Aer-O-Foam XL-3 Aer-O-Foam XL-3E Aer-O-Foam XL-6 Aer-O-Foam XLX-3 Aer-O-Foam XLX-6	--	--	Hi Expansion 1.5% High Expansion 2%	Knockdown Responder	Training Foam Knockdown Training Foam	--
U.S. Foam Technologies	Alden Ozment President 600 East Cotton Street Longview, TX 75602 903-753-3901 x100 www.usfoam.com	US Foam AFFF 1% US Foam AFFF 3% US Foam AFFF 6%	US Foam 1%-3% US Foam 3%-3% US Foam 3%-6%	--	--	--	--	U.S. Super High Ex	First Strike	U.S. Training Foam	First Strike A/B

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Buckeye Fire Equipment	Thomas J. Bower President 110 Kings Road Kings Mountain, NC 28086 704-739-7415 www.buckeyef.com	Platinum 1% Platinum 3% Platinum 6%	Platinum 3%-6% Platinum 3% Bugeye Platinum 3%	--	3% FP 6% FP	--	--	Buckeye Hi-EX	Platinum Class A Solid Foam Fire Fighting Stik	--	--
ICL Performance Products (Phos-Chek)	Eddie Goldberg Fire Safety Business Director Edward.goldberg@icl-pplp.com www.phoschek.com	--	--	--	--	--	--	--	Phos-Chek WD 881	--	Fire Retardants
Fire-Trol Holdings, L.L.C.	2620 N. 37th Drive Phoenix, AZ 85009 530-865-4932	--	--	--	--	--	--	--	Fire-Trol Class A Firefoam 103 Fire-Trol Class A Firefoam 103B Fire-Trol Class A Firefoam 104	--	Fire-Trol Fire Retardants (powder, gel and liquid)
Verde Environmental, Inc.	William L. Scogin President and CEO 9223 Eastex Freeway Houston, TX 77093 800-526-6598 713-591-6468 www.micro-blaze.com	Micro-Blaze Out Plus 3%	Micro-Blaza Out Plus 3%x3%	--	--	--	--	--	Micro-Blaze Out	--	--
Hazard Control Technologies (HCT)	150 Walter Way Fayetteville, GA 30214 (770)719-5112 www.hct-world.com	--	--	--	--	--	--	--	Pinnacle Class A	--	Inferno Flame Retardant F-500 A-B foam
Dynax Corporation	Dr. Eduard Kleiner President 79 Westchester Av. PO Box 285 Pound Ridge, NY 10576 914-764-0202 www.dynaxcorp.com	Dynax Corporation manufactures fluorosurfactants and fluorochemical foam stabilizers for use in the production of AFFF, AR-AFFF, FFFP, AR-FFFP, and FP foams. Dynax's fluorosurfactants/foam stabilizers are only made using a telomerization process, and are not derived from nor degrade to PFOS, PFOA or PFBA, per Dynax.									

NOTES:
(1) Foam known to contain or degrade to PFOS and PFOA.
(2) Foam not made with PFCs.

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TABLE 2

ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES

Department	Location	Foam Use Frequency for Fire Response: 0-25% of Fires	25-50% Fires	75-100% Fires	CAFS Tank on Engine?	Foam Used in Training?	Foam Use Frequency in Training: Weekly	Monthly	Quarterly	Semi-Annually	Annually	Bi-Annually	Occasionally	Amount Foam Use in Training: Less than 5 gallons	5 gallons	5 to 10 gallons	More than 10 gallons	Spent Foam Destination: Storm Sewer	Sanitary Sewer	On-Site Septic	Ground	Other	Training Location	Types of Foam Used: Class B AFFF	Class B AR-AFFF	Class B Protein	Class B FP	Class B FFFP	Class B AR-FFP	Class A-B HiEx	Class A	Training Foam	Other	Foam Used in Training?	Annual Foam Usage: 10 Gallons or less	11-25 Gallons	26-100 Gallons	101-200 Gallons	More than 200 Gallons	Current Foam Use?	Historic Foam Use?	Site Note	SITE RANKING CRITERIA: Foam Type: 3M current or former use in training=8	Annual Class B Foam Usage in Training: 5 gal or less=2; 6 to 10 gal=4; >10 gal=6	Surface Water Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wetlands Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Karst Area: Active=5; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wellhead Protection Area: site in WPA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
Ada	Ada	X			N	Y				X				X				X			X		8th Street W., in street and ditch								2			Y			X			Y	Y												
Adams	Adams	X			N	Y					X				X						X		Fire station on Main Street, east side of town.								2			Y		X				Y	Y												
Adrian	Adrian	X			Y	N																	Not applicable	12							2			N	X																		
Aitkin	Aitkin		X		N	Y				X				X				X			X		Fire station, 109 1st St. NW								2			Y	X					Y	Y												
Alaska	Puposky	X			N	Y							X	X							X		Fire hall, 28987 Alaska Ln NW, Puposky								2			Y	X						Y												
Albany	Albany			X	Y	Y						X		X				X			X		Parking lot, 30 Forest Av								5			Y	X					Y												
Albert Lea	Albert Lea			X	N	Y					X				X						X		Frank Ave., near dog pound		3						2			Y			X			Y		Frank Avenue located in or near a Well Protection Area.	0	2	1	1	2	3	4	13
Albert Lea Township	Albert Lea	X			N	Y					X			X							X		Frank Hall Dr., Old sewage treatment plant								2			Y	X					Y												
Albertville	Albertville	X			Y	Y				X					X			X					Fire hall, 11350 57th St NE								7			Y	X					Y	Y												
Alpha	Alpha	X			N	Y						X		X							X		Main Street, Alpha								2			Y	X					Y	Y												
Anoka-Champlin	Anoka		X		N	Y							X			X		X					Unknown. haven't trained in 3-4 years.								2			N			X			Y												
Apple Valley	Apple Valley		X		N	Y						X				X		X	X		X		Fire Sta. #1, 15000 Hayes Rd; Apple Valley central maintenance facility, 6442 140th St. W.	7	7						6			Y	X		X			N	Y												
Appleton	Appleton		X		N	Y				X				X							X		Appleton Public Works bldg. 427 S. Munsterman St., Appleton		3						2			Y			X			Y												
Arlington	Arlington	X			N	N																	Not applicable								9			N				X		Y	Y												
Arrowhead	Brookston		X		N	Y				X				X							X		Fire hall, 9798 Hwy 2, Brookston								2			Y	X					Y	Y												
Ashby	Ashby			X	N	Y					X			X							X		Not specified								2			Y		X					Y												
Aurora	Aurora	X			N	N																	Not applicable								2			N		X				Y	Y												

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TABLE 2

ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES

Department	Location	Foam Use Frequency for Fire Response			CAFS Tank on Engine?	Foam Used in Training?	Foam Use Frequency in Training								Amount Foam Use in Training				Spent Foam Destination					Training Location	Types of Foam Used: Class B AFFF	Class B AR-AFFF	Class B Protein	Class B FP	Class B FFFP	Class B AR-FFP	Class A-B HiEx	Class A	Training Foam	Other	Foam Used in Training?	Annual Foam Usage: 10 Gallons or less	11-25 Gallons	26-100 Gallons	101-200 Gallons	More than 200 Gallons	Current Foam Use?	Historic Foam Use?	Site Note	SITE RANKING CRITERIA: Foam Type: 3M current or former use in training=8	Annual Class B Foam Usage in Training: 5 gal or less=2; 6 to 10 gal=4; >10 gal=6	Surface Water Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wetlands Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Karst Area: Active=5; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wellhead Protection Area: site in WPA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
		0-25% of Fires	25-50% Fires	75-100% Fires			Weekly	Monthly	Quarterly	Semi-Annually	Annually	Bi-Annually	Occasionally		Less than 5 gallons	5 gallons	5 to 10 gallons	More than 10 gallons	Storm Sewer	Sanitary Sewer	On-Site Septic	Ground	Other		(1) 3M brand foam	(2) Ansul Silv-ex	(3) Ansulite	(4) Other/ unspecified Ansul foam product	(5) Angus Forexpan S	(6) Angus Hi-Combat	(7) Other/unspecified Angus foam product	(8) National Foam product.	(9) Chemguard foam product	(10) HCT F-500 A-B	(11) Pyrocom Aqua Stiks	(12) Other or unspecified foam product																											
Austin	Austin	X			N	Y					X				X							X		Marcusen Park, S. Main St., Austin								2	1		N		X				N	Y	Foam Pro proportioner with A-B tank.								
																																				Y	X					Y			Class B foam not used in training, site not ranked.								
Avon	Avon	X			N	Y						X			X							X		Cty. Rd. 155 & Angelfish Rd., Avon								2			Y			X			Y			Class A foam use only, site not ranked.								
Babbitt	Babbitt	X			N	Y					X				X							X		34 North Dr., Babbitt		3						2			N	X					Y		Training site in or near a Special Well Protection Area.	0	2	1	1	0	3	5	12
																																		Y	X					Y	Y											
Bagley	Bagley	X			Y	N																		Not applicable								2			N			X					Class A foam use only, site not ranked.								
Balaton	Balaton	X			N	Y					X					X						X		Grassy field at city burn site, SE corner of town near end of Lake St.		1						1			N	X							Class B foam not used in training, site not ranked.								
																																		N	X																			
Balsam	Bovey	X			N	Y				X					X							X		Fire hall, 41362 Scenic Hwy., Bovey								2			Y		X				Y	Y	Class A foam use only, site not ranked.								
Barnum	Barnum			X	N	Y					X				X							X		Fire hall park lot, 3842 Church St.								6			Y	X					Y	Y	Class A foam use only, site not ranked.								
Battle Lake	Battle Lake		X		Y	Y							X		X							X		Battle Lake Airport								2			Y	X					Y		Class A foam use only, site not ranked.								
Baudette	Baudette			X	Y	Y					X				X				X			X		Various								2			Y			X			Y		Class A foam use only, site not ranked.								
Beardsley	Beardsley	X			N	Y					X				X							X		Various								2			Y	X					Y		Class A foam use only, site not ranked.								
Belgrade	Belgrade		X		N	N																		Not applicable								2			N			X			Y		Class A foam use only, site not ranked.								
Bellingham	Bellingham	X			N	Y					X				X							X		Fire station park lot (302 2nd St. S.); Bellingham Farmers Elevator.								2			Y	X					Y	Y	Class A foam use only, site not ranked.								
Beltrami	Beltrami	X			N	Y					X				X							X		E.G.F. Tech, on fire department grounds								12			N								Class A foam type and quantity not specified; last foam training ~5 years ago.								
																																												Class A foam use only, site not ranked.								
Belview	Belview		X		N	Y					X				X				X			X		Various		12									N	X					Y	Y	Train with Dawn dish soap.								
																																	12		N	X					Y	Y	Class B foam not used in training, site not ranked.								
Bemidji	Bemidji	X			N	Y					X						X					X		Bemidji Airport (Class B) Railroad Street (Class A)	1							2			Y	X					Y		Bemidji Airport training site in Wellhead Protection Area.	8	4	3	3	0	3	5	26
																																		Y		X					Y											
Benson	Benson	X			N	Y					X				X							X		Not specified		1						2			N	X							3M AR-AFFF not used in training.								
																																		Y		X							Class B foam not used in training, site not ranked.								
Bertha	Bertha		X		N	Y				X					X				X			X		Fire hall, 208 2nd Av. NW	3							2			N	X					N	Y	AFFF not used in training.								
																																		Y		X					Y	Y											
																																9		Y	X					Y	Y	Class B foam not used in training, site not ranked.								

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TABLE 2
ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES

Department	Location	Foam Use Frequency for Fire Response: 0-25% of Fires	25-50% Fires	75-100% Fires	CAFS Tank on Engine?	Foam Used in Training?	Foam Use Frequency in Training: Weekly	Monthly	Quarterly	Semi-Annually	Annually	Bi-Annually	Occasionally	Amount Foam Use in Training: Less than 5 gallons	5 gallons	5 to 10 gallons	More than 10 gallons	Spent Foam Destination: Storm Sewer	Sanitary Sewer	On-Site Septic	Ground	Other	Training Location	Types of Foam Used: Class B AFFF	Class B AR-AFFF	Class B Protein	Class B FP	Class B FFFP	Class B AR-FFP	Class A-B HiEx	Class A	Training Foam	Other	Foam Used in Training?	Annual Foam Usage: 10 Gallons or less	11-25 Gallons	26-100 Gallons	101-200 Gallons	More than 200 Gallons	Current Foam Use?	Historic Foam Use?	Site Note	SITE RANKING CRITERIA: Foam Type: 3M current or former use in training=8	Annual Class B Foam Usage in Training: 5 gal or less=2; 6 to 10 gal=4; >10 gal=6	Surface Water Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wetlands Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Karst Area: Active=5; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wellhead Protection Area: site in WPA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
																								(1) 3M brand foam																											
																								(2) Ansul Silv-ex																											
																								(3) Ansulite																											
																								(4) Other/ unspecified Ansul foam product																											
																								(5) Angus Forexpan S																											
																								(6) Angus Hi-Combat																											
																								(7) Other/unspecified Angus foam product																											
																								(8) National Foam product.																											
																								(9) Chemguard foam product																											
																								(10) HCT F-500 A-B																											
																								(11) Pyrocom Aqua Stiks																											
																								(12) Other or unspecified foam product																											
Big Lake	Big Lake	X			N	Y			X					X				X			X		Various		3						2			Y	X					Y		Phasing out use of Silv-ex	0	6	Multiple training locations, site not ranked.						
Bigelow	Bigelow	X			Y	Y					X			X							X		Bigelow elevator parking lot.								2			Y	X					Y			Class A foam use only, site not ranked.							
Bird Island	Bird Island	X			Y	N																	Not applicable								2			N	X								Class A foam use only, site not ranked.							
Blackhoof	Barnum			X	N	Y							X	X							X		3148 Cty. Rd. 5, Barnum									12	Y	X					Y	N	No foam use before Fall 2007; new p umper truck. Use F-500 Wetting Agent.	0	2	1	1	0	3	0	7
Blooming Prairie	Blooming Prairie	X			N	Y					X			X							X		605 Industrial Dr.	12							2			N N		X				Y Y	Y	AFFF and training foam types not specified. AFFF not used in training.	Class B foam not used in training, site not ranked.							
Bloomington	Bloomington	X			N	N																	Six training sites; foam not used in training.	1	1						8 12			N N Y						Y Y N		Dawn dish soap used for training. Foam quantities not specified.	Class B foam not used in training, site not ranked.							
Bluffton	Bluffton	X			Y	Y				Y				X							X		CRP Field								2			Y	X					Y	Y		Class A foam use only, site not ranked.							
Borup	Borup	X			N	N																	Not applicable								2			N						Y	N	Just received foam, have not used yet.	Class A foam use only, site not ranked.							
Bovey	Bovey		X		Y	Y				X				X							X		Various locations in Itasca County								4			Y		X				Y	Y		Class A foam use only, site not ranked.							
Bowlus	Bowlus	X			N	Y						X		X							X		1/2 Mile south on 26, Bowlus	7							7			N Y	X X								Class B foam not used in training, site not ranked.							
Brandon	Brandon			X	N	Y				X				X				X			X		Various								2			Y	X					Y	N	Training with foam only to ensure that equipment is functioning properly.	Class A foam use only, site not ranked.							
Breckenridge	Breckenridge	X			N	Y					X					X		X				X	1312 Minnesot Av., Breckenridge	12							12			Y	X X							Foam types not specified.	8[3]	4	1	1	0	1	0	15
Breitung	Breitung		X		N	Y				X					X						X		Various								7			Y	X					Y			Class A foam use only, site not ranked.							
Brewster	Brewster	X			N	N																	Not applicable								2			N	Y					Y			Class A foam use only, site not ranked.							
Brimson	Brimson			X	N	Y					X			X							X		3127 Hwy. 44	9							12			N Y	X X						Y	Class A foam type Fire-Trol.	Class B foam not used in training, site not ranked.							
Brook Park	Brook Park	X			N	Y					X			X							X		Fire hall, Brook Park								2			N			X			Y			Class A foam use only, site not ranked.							
Brooten	Brooten	X			Y	Y					X			X							X		Unspecified grasslands	12										Y		X				Y	Y	Foam type not specified.	8[3]	2	Training site not mappable, site not ranked.							
Browerville	Browerville	X			N	Y					X			X				X			X		City of Browerville								2			Y	X					Y	Y	Training site mapped as the general downtown area.	Class A foam use only, site not ranked.							
Browns Valley	Browns Valley	X			N	Y					X			X							X		Not specified																	Y		Foam type and quantity not specified.	8[3]	2	Training site not specified, site not ranked.							

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TABLE 2
ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES

Department	Location	Foam Use Frequency for Fire Response			CAFS Tank on Engine?	Foam Used in Training?	Foam Use Frequency in Training								Amount Foam Use in Training				Spent Foam Destination					Training Location	Types of Foam Used														Foam Used in Training?	Annual Foam Usage					Current Foam Use?	Historic Foam Use?	Site Note	SITE RANKING CRITERIA							OVERALL SITE RANKING
		0-25% of Fires	25-50% Fires	75-100% Fires			Weekly	Monthly	Quarterly	Semi-Annually	Annually	Bi-Annually	Occasionally		Less than 5 gallons	5 gallons	5 to 10 gallons	More than 10 gallons	Storm Sewer	Sanitary Sewer	On-Site Septic	Ground	Other		Class B AFFF	Class B AR-AFFF	Class B Protein	Class B FP	Class B FFFP	Class B AR-FFP	Class A-B HiEx	Class A	Training Foam	Other							10 Gallons or less	11-25 Gallons	26-100 Gallons	101-200 Gallons	More than 200 Gallons				Foam Type: 3M current or former use in training=8	Annual Class B Foam Usage in Training: 5 gal or less=2; 6 to 10 gal=4; >10 gal=6	Surface Water Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wetlands Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Karst Area: Active=5; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wellhead Protection Area: site in WPA=5; within 1/4 mile=4; within 1 mile=2; No=0	
																								(1) 3M brand foam	(2) Ansul Silv-ex	(3) Ansulite	(4) Other/ unspecified Ansul foam product	(5) Angus Forexpan S	(6) Angus Hi-Combat	(7) Other/unspecified Angus foam product	(8) National Foam product.	(9) Chemguard foam product	(10) HCT F-500 A-B	(11) Pyrocom Aqua Stiks	(12) Other or unspecified foam product																										
Brownsdale	Brownsdale	X			Y	Y					X				X							X	Vacant lot next to fire hall, 202 S. Mill St.								2			Y	X					Y	Y		Class A and training foam foam use only, site not ranked.							
Brownton	Brownton	X			N	Y					X				X							X	Not specified								6			N	X					Y	Y		Class A foam use only, site not ranked.							
Buffalo	Buffalo	X			Y	Y						X			X				X			X	Station 2, 309 Atlas Cir.								6			Y	X					Y	Y		Class A foam use only, site not ranked.							
Buffalo Lake	Buffalo Lake	X			Y	Y						X			X				X				315 N. Main St., at Main & Church Sts., Buffalo Lake	1							6			Y	X					Y			8	2	1	1	0	1	0	13
Buhl	Buhl			X	N	Y					X					X			X			X	702 Seville Av.								5			Y			X			Y	Y		Class A foam use only, site not ranked.							
Burnsville	Burnsville			X	N	Y					X						X					X	Cliff Rd & River Ridge Blvd. Burnsville		4									Y						Y			Training facility jointly owned by Burnsville, Apple Valley, Eagan and Lakeville. AFFF-AR type Ansul ATC 3/6.	0	4	3	3	5	3	5	23
																																2			Y				X		Y										
Buyck	Buyck	X			N	Y					X				X							X	8035 Orr-Buyck Rd., Buyck								2			Y						Y		Foam type and quantity not specified.	8[3]	2	1	3	0	0	0	14
Byron	Byron	X			N	Y				X					X							X	Various									10		Y	X					Y			0	4	Multiple training locations, site not ranked.						
Calumet	Calumet	X			N	N									X								Not applicable								2			N	X					N	N		Class A foam use only, site not ranked.							
Cambridge	Cambridge		X		Y	N									X							X	One time training when first got pumper truck.								2			Y	X								Class A foam use only, site not ranked.							
Canby	Canby	X			N	Y				X						X						X	Various							12		12		N	X							Foam types not specified.	0	4	Multiple training locations, site not ranked.						
																																			Y	X															
Canosia	Duluth	X			N	Y				X					X							X	Not specified								9			Y			X			Y	Y		Class A foam use only, site not ranked.							
Carlton	Carlton	X			N	Y					X						X					X	Fire hall parking lot, 100 4th St (4th St. N. & South Ave.)								2			Y	X					Y	Y		Class A foam type Safeguard.							
																																12			Y	X					Y	Y		Class A foam use only, site not ranked.							
Cass Lake	Cass Lake	X			N	Y					X						X					X	Railroad ROW by 8 Railroad St. NW, Cass Lake	7										Y	X						Y											
																								12											Y	X						Y										
																									3										N	X					Y		AFFF type US Foam First Strike.	0	4	1	1	0	3	0	9
																																2			Y		X				Y										
Centennial	Lino Lakes			X	N	Y							X		X							X	Various	1										N	X						Y	Class A foam type Pioneer, 3M AFFF	0	2	Multiple training locations, site not ranked.						
																																12			N		X					Y										

2222.0047

STATE_02821004

TABLE 2

ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES

Department	Location	Foam Use Frequency for Fire Response			CAFS Tank on Engine?	Foam Used in Training?	Foam Use Frequency in Training								Amount Foam Use in Training				Spent Foam Destination					Training Location	Types of Foam Used																Foam Used in Training?	Annual Foam Usage						Current Foam Use?	Historic Foam Use?	Site Note	SITE RANKING CRITERIA							OVERALL SITE RANKING
		0-25% of Fires	25-50% Fires	75-100% Fires			Weekly	Monthly	Quarterly	Semi-Annually	Annually	Bi-Annually	Occasionally	Less than 5 gallons	5 gallons	5 to 10 gallons	More than 10 gallons	Storm Sewer	Sanitary Sewer	On-Site Septic	Ground	Other		Class B AFFF	Class B AR-AFFF	Class B Protein	Class B FP	Class B FFFP	Class B AR-FFP	Class A-B HiEx	Class A	Training Foam	Other									10 Gallons or less	11-25 Gallons	26-100 Gallons	More than 200 Gallons				Foam Type: 3M current or former use in training=8	Annual Class B Foam Usage in Training: 5 gal or less=2; 6 to 10 gal=4; >10 gal=6	Surface Water Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wetlands Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Karst Area: Active=5; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wellhead Protection Area: site in WPA=5; within 1/4 mile=4; within 1 mile=2; No=0	
Chanhassen	Chanhassen	X			Y	Y				X				X							X		Park Place cul-de-sac, Chanhassen	3															N	X					N	Y		Class B foam not used in training, site not ranked.							
																								3															N	X					N	Y										
																														6											Y			X			N	Y										
Chaska	Chaska			X	N	Y					X			X							X		Fire hall, 285 Engler Blvd.							6											Y		X			Y			Training site located in or adjacent to Wellhead Protection Area.	Class B foam not used in training, site not ranked.							
Cherry	Cherry	X			N	Y					X			X							X		Fire hall, 9831 Hwy. 37							2											Y	X										Class A foam use only, site not ranked.							
Chisago City	Chisago City		X		Y	Y			X					X							X		Liberty Lane, various							6											Y								Foam amount not specified.	Class A foam use only, site not ranked.							
Chisholm	Chisholm			X	N	Y				X						X					X		Various							2											Y	X									Class A foam use only, site not ranked.							
																							Athletic Field, 3rd St. W. & 4th Av. S.; and, empty farmstead Sect. 25							7											Y	X					Y											
Chokio	Chokio		X		N	Y				X				X				X			X		Leonardsville Twp.							2											Y	X					Y			Class A foam use only, site not ranked.							
																							Front of fire hall,		1																Y		X															
Claremont	Claremont	X			N	Y					X				X			X					Front Street, Claremont							4												X						Built in foam tank, but not compressed.	8	2	1	0	4	3	0	18
Clarkfield	Clarkfield	X			N	Y				X				X							X		City storage area, 520 425 St.							2											Y	X					Y			Class A foam use only, site not ranked.							
Clarks Grove	Clarks Grove	X			N	Y					X			X							X		Fire station, Clarks Grove (101 N. Independence Av.)							12											Y	X								Class A foam type not specified.	Class A foam use only, site not ranked.							
Clear Lake	Clear Lake		X		Y	N																	Not applicable		7																N		X					Y			Foam not used in training, site not ranked.							
Clearwater	Clearwater	X			Y	N																	Not applicable																											No foam currently on hand.	Foam not used in training, site not ranked.							
Clements	Clements	X			Y	Y						X		X							X		Various							2											Y	X					Y	N		Class A foam use only, site not ranked.							
																														9											Y	X					N	Y										
Clifton Twp	Duluth	X			N	Y					X			X							X		Fire Hall #1, 2146 Old North Shore Rd.							9											N	X					Y	N	Historic use of Chemguard Plus; future use of Chemguard First FC.	Class A foam use only, site not ranked.							
																							City gravel pit,		7																N	X					Y	Y										
Cloquet	Cloquet	X			N	Y						X				X					X		Armory Road, Cloquet							7											N	X					Y	Y		Class B foam not used in training, site not ranked.							
Cohasset	Cohasset			X	N	Y				X					X						X		Not specified	9						2													X							0	4	Training site not specified, site not ranked.							

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STATE_02821005

TABLE 2
ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES

Department	Location	Foam Use Frequency for Fire Response			CAFS Tank on Engine?	Foam Used in Training?	Foam Use Frequency in Training							Amount Foam Use in Training				Spent Foam Destination					Training Location	Types of Foam Used																Foam Used in Training?	Annual Foam Usage					Current Foam Use?	Historic Foam Use?	Site Note	SITE RANKING CRITERIA							OVERALL SITE RANKING
		0-25% of Fires	25-50% Fires	75-100% Fires			Weekly	Monthly	Quarterly	Semi-Annually	Annually	Bi-Annually	Occasionally	Less than 5 gallons	5 gallons	5 to 10 gallons	More than 10 gallons	Storm Sewer	Sanitary Sewer	On-Site Septic	Ground	Other		Class B AFFF	Class B AR-AFFF	Class B Protein	Class B FP	Class B FFFP	Class B AR-FFP	Class A-B HiEx	Class A	Training Foam	Other									10 Gallons or less	11-25 Gallons	26-100 Gallons	101-200 Gallons	More than 200 Gallons				Foam Type: 3M current or former use in training=8	Annual Class B Foam Usage in Training: 5 gal or less=2; 6 to 10 gal=4; >10 gal=6	Surface Water Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wetlands Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Karst Area: Active=5; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wellhead Protection Area: site in WPA=5; within 1/4 mile=4; within 1 mile=2; No=0	
																								(1) 3M brand foam																																	
																								(2) Ansul Sliv-ex																																	
																								(3) Ansulite																																	
																								(4) Other/ unspecified Ansul foam product																																	
																								(5) Angus Forexpan S																																	
																								(6) Angus Hi-Combat																																	
																								(7) Other/unspecified Angus foam product																																	
																								(8) National Foam product.																																	
																								(9) Chemguard foam product																																	
																								(10) HCT F-500 A-B																																	
																								(11) Pyrocom Aqua Stiks																																	
																								(12) Other or unspecified foam product																																	
Cold Spring	Cold Spring			X	Y	Y				X				X							X		Various: 27 Red River Av. S.; Ricori Middle School north parking lot, Main St.; 2nd Av. & 2nd St. N.; City maintenance shop, 2nd Av. NE, 10th St NE & 11th St. NE.	7							2			Y	N	X		X			Y	Y	Y	Class B foam not used in training, site not ranked.							
																									7															N	X				Y	N											
Colvill	Colvill	X			N	Y					X			X							X		Colvill							2									Y	X				Y		Dawn dish soap also used in training.	Class A foam use only, site not ranked.							
Comfrey	Comfrey	X				Y						X			X						X		Various	3						2									Y	X				Y			0	2	Multiple training locations, site not ranked.						
Coon Rapids	Coon Rapids	X			N	Y						X		X							X		Fire hall, 1199 121st Av. NW		8					2									N																																
																															11									Y		X						Class B foam not used in training, site not ranked.							
Cosmos	Cosmos	X			Y	Y			X						X			X			X		Various							2									Y	X				Y			Class A foam use only, site not ranked.							
Cottage Grove	Cottage Grove	X			N	Y							X	X							X		Fire Station 2, 8641 80th St. S.		1														Y	X																														
																															7									N			X						8	2	3	3	5	1	5	27
																									1															N					N	Y										
Cottonwood	Cottonwood	X			N	N																	Not applicable		3					2									N		X			Y			Foam not used in training, site not ranked.							
Cromwell	Cromwell			X	N	Y			X					X				X					Fire hall, 5592 Hwy 210							2									Y			X		Y			Class A foam use only, site not ranked.							
Crosby	Crosby	X			N	Y						X			X						X		By city public works bldg., Crosby							6									Y	X				Y			Class A foam use only, site not ranked.							
Crosslake	Crosslake	X			N	Y					X			X					X				Joint City/County maintenance facility, County Road 3 South		12														Y	X				Y		Foam type not specified.	8[3]	2	Training site not mappable, site not ranked.							
Cuyuna	Aitkin	X			N	Y					X			X				X					Fire hall, south side of bldg. (24124 Cty. Rd. 30, Aitkin)							7									Y	X							Class A foam use only, site not ranked.							
Dalton	Dalton			X	N	N																	Not applicable							2									N							Foam amount not specified.	Class A foam use only, site not ranked.							
Darfur	Butterfield	X			N	Y						X		X							X		Various		3															Y	X				Y		Class A foam type 1st Defense.	0	2	Multiple training locations, site not ranked.							
																															12									Y	X				Y										
Dassel	Dassel		X		N	Y						X		X							X		833 Curran St.							7									Y	X				Y	Y		Class A foam use only, site not ranked.							
																															11									Y	X				Y	N										
Deer Creek	Deer Creek	X			N	Y							X	X							X		Fire hall, 102 Baker St							2									Y	X				Y			Class A foam use only, site not ranked.							
																							By city maintenance		7														N	X																														

2222.0049

STATE_02821006

TABLE 2
ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES

Types of Foam Used
(1) 3M brand foam
(2) Ansul Silv-ex
(3) Ansulite
(4) Other/ unspecified Ansul foam product
(5) Angus Forexpan S
(6) Angus Hi-Combat
(7) Other/unspecified Angus foam product
(8) National Foam product.
(9) Chemguard foam product
(10) HCT F-500 A-B
(11) Pyrocom Aqua Stiks
(12) Other or unspecified foam product

Department	Location	Foam Use Frequency for Fire Response: 0-25% of Fires	25-50% Fires	75-100% Fires	CAFS Tank on Engine?	Foam Used in Training?	Foam Use Frequency in Training: Weekly	Monthly	Quarterly	Semi-Annually	Annually	Bi-Annually	Occasionally	Amount Foam Use in Training: Less than 5 gallons	5 gallons	5 to 10 gallons	More than 10 gallons	Spent Foam Destination: Storm Sewer	Sanitary Sewer	On-Site Septic	Ground	Other	Training Location	Class B AFFF	Class B AR-AFFF	Class B Protein	Class B FP	Class B FFFP	Class B AR-FFP	Class A HiEx	Class A	Training Foam	Other	Foam Used in Training?	Annual Foam Usage: 10 Gallons or less	11-25 Gallons	26-100 Gallons	101-200 Gallons	More than 200 Gallons	Current Foam Use?	Historic Foam Use?	Site Note	SITE RANKING CRITERIA: Foam Type: 3M current or former use in training=8	Annual Class B Foam Usage in Training: 5 gal or less=2; 6 to 10 gal=4; >10 gal=6	Surface Water Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wetlands Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Karst Area: Active=5; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wellhead Protection Area: site in WPA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
Deerwood	Deerwood	X			N	Y						X		X							X		bldg. on Industrial							6			Y	X							Class B foam not used in training, site not ranked.								
Dilworth	Dilworth	X				Y					X			X							X		Fire hall, 709 1st Ave. NW							4	2		N								Foam quantities not specified.	Class B foam not used in training, site not ranked.								
Dover	Dover	X			N	Y					X			X							X		Various, most recent at farm field on Cty. Rd. 2, ~1 mile east of Cty. Rd. 10.	1						7	2		Y	X							AFFF is mostly used at William Bros. Pipeline facility about 6 miles away.	8	2	Multiple training locations, site not ranked.						
Dunnell-Lake Fremont	Dunnell	X			N	Y					X			X							X		Old ball diamond, N. Seeley Av.	12							2		Y	X		X					Class B AFFF noted as Silv-ex.	0	2	1	1	0	1	0	5
Eagan	Eagan			X	N	Y							X	X								X	Various								2			Y					X	Y	Y	Rarely use foam in training due to cost.	Class A foam use only, site not ranked.							
Eagle Lake	Eagle Lake			X	Y	Y					X			X				X			X		City park by cemetary on Cty Rd 27, north of Eagle Lake American Legion lot on Parkway Av.								2		Y		X				Y			Class A foam use only, site not ranked.								
East Grand Forks	East Grand Forks	X			N	Y						X			X							X	Northland Comm College, 2022 Central Av NE								9		Y	X								Training at community college, site not ranked.								
Easton	Easton	X			N	Y							X	X								X	Not specified								12		N	X							Foam rarely used in training; Class A foam type Drexel Control A.	Class A foam use only, site not ranked.							
Echo	Echo	X			N	Y					X				X							X	3 miles south and 2 miles west of Echo								2		Y	X								Class A foam use only, site not ranked.								
Eden Prairie	Eden Prairie			X	N	N																	Not applicable								7		N			X						Class A foam use only, site not ranked.								
Eden Valley	Eden Valley	X			Y	N																	Not applicable								6		N		X							Class A foam use only, site not ranked.								
Edina	Edina		X		N	Y							X	X							X		Various									10	Y			X			Y	Y		0	2	Multiple training locations, site not ranked.						
Elbow-Tulaby Lakes	Waubun	X			N	Y						X		X							X		Fire station, 39828 St. Hwy. 113								12		Y	X							Class A foam type not specified.	Class A foam use only, site not ranked.								
Elizabeth	Elizabeth	X			N	N																	Not applicable								2		N	X							Trained one time with foam.	Class A foam use only, site not ranked.								
Elk River	Elk River	X			N	Y				X					X			X				X		Fire Station #1, 415 Jackson Av.								7		Y			X			Y	Y		Class A foam use only, site not ranked.								
Ellsburg	Cotton	X			N	Y					X			X							X		Fire Hall, 1763 Melrude Rd., Melrude, MN	12																	AFFF type U.S. Foam; quantity anduse in training not specified.	0	2	3	3	0	1	0	9
Elmer	Elmer	X			N	Y					X			X							X		Elmer Town Hall 7882 Hwy. 5 Meadowlands	9							9		N	X							New system, one training event thus far.	Class B foam not used in training, site not ranked.								
																															5																			

2222.0050
STATE_02821007

TABLE 2
ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES

Types of Foam Used
(1) 3M brand foam
(2) Ansul Silv-ex
(3) Ansulite
(4) Other/ unspecified Ansul foam product
(5) Angus Forexpan S
(6) Angus Hi-Combat
(7) Other/unspecified Angus foam product
(8) National Foam product.
(9) Chemguard foam product
(10) HCT F-500 A-B
(11) Pyrocom Aqua Stiks
(12) Other or unspecified foam product

Department	Location	Foam Use Frequency for Fire Response: 0-25% of Fires	25-50% Fires	75-100% Fires	CAFS Tank on Engine?	Foam Used in Training?	Foam Use Frequency in Training: Weekly	Monthly	Quarterly	Semi-Annually	Annually	Bi-Annually	Occasionally	Amount Foam Use in Training: Less than 5 gallons	5 gallons	5 to 10 gallons	More than 10 gallons	Spent Foam Destination: Storm Sewer	Sanitary Sewer	On-Site Septic	Ground	Other	Training Location	Class B AFFF	Class B AR-AFFF	Class B Protein	Class B FP	Class B FFFP	Class B AR-FFP	Class A-B HiEx	Class A	Training Foam	Other	Foam Used in Training?	Annual Foam Usage: 10 Gallons or less	11-25 Gallons	26-100 Gallons	101-200 Gallons	More than 200 Gallons	Current Foam Use?	Historic Foam Use?	Site Note	SITE RANKING CRITERIA: Foam Type: 3M current or former use in training=8	Annual Class B Foam Usage in Training: 5 gal or less=2; 6 to 10 gal=4; >10 gal=6	Surface Water Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wetlands Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Karst Area: Active=5; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wellhead Protection Area: site in WPA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
Ely	Ely		X		N	Y					X			X				X					Miners Drive								2			Y			X						Class A foam use only, site not ranked.							
Emmons	Emmons	X			N	N																	Not applicable								2			N	X					Y	Y		Class A foam use only, site not ranked.							
Evansville	Evansville	X			N	Y					X				X			X				X	East end of town, (new) Council Circle.		8																	AFFF-AR type National Foam Universal Gold 1%-3%; foam quantity not specified.	0	2	1	3	0	1	4	11
Excelsior	Shorewood			X	Y	Y					X			X							X		Various								2			Y		X				Y			Class B foam not used in training, site not ranked.							
Fairmont	Fairmont	X			N	Y			X					X							X		City shop park lot, 417 E. Margaret St.																			Foam type and quantity not specified.	8[3]	6	3	3	0	1	0	21
Falcon Heights	Falcon Heights	X			N	Y				X				X				X					Fire hall park lot, 2077 Larpenteur Av.								4			Y	X							Ansul foam type Thunderstorm.	Class A foam use only, site not ranked.							
Finland	Finland			X	N	Y			X					X							X		Fire hall and gravel pits, etc., Finland area								1			Y		X				Y			Class A foam use only, site not ranked.							
Fisher	Fisher	X			N	Y				X				X							X		Fisher City Shop, 4th St. N.		3						2			N	X					Y			Class B foam not used in training, site not ranked.							
Floodwood	Floodwood	X			N	N																	Not applicable								2			Y	X					Y			Class A foam use only, site not ranked.							
Foreston	Foreston	X			N	Y					X			X							X		Various								12			N		X				Y		Class A foam type not specified.	Class A foam use only, site not ranked.							
Fosston	Fosston		X		N	Y					X			X				X			X		North side of 10th St., west of Cty. Rd. 30, Fosston								9			Y		X				Y			Class A foam use only, site not ranked.							
Fountain	Fountain	X			Y	Y						X		X							X		Not specified										10	Y	X					Y			0	2	Training site not specified, site not ranked.						
Freeport	Freeport	X			N	Y					X			X							X		Not specified								7			N	X					Y		Training maybe once per year or not at all	Class A foam use only, site not ranked.							
French	Side Lake		X		N	Y				X				X							X		Side Lake Community Center, N. Hwy. 5								2			Y	X					Y	Y		Class A foam use only, site not ranked.							

2222.0051
STATE_02821008

TABLE 2
ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES

Types of Foam Used
(1) 3M brand foam
(2) Ansul Silv-ex
(3) Ansulite
(4) Other/ unspecified Ansul foam product
(5) Angus Forexpan S
(6) Angus Hi-Combat
(7) Other/unspecified Angus foam product
(8) National Foam product.
(9) Chemguard foam product
(10) HCT F-500 A-B
(11) Pyrocom Aqua Stiks
(12) Other or unspecified foam product

Department	Location	Foam Use Frequency for Fire Response: 0-25% of Fires	25-50% Fires	75-100% Fires	CAFS Tank on Engine?	Foam Used in Training?	Foam Use Frequency in Training: Weekly	Monthly	Quarterly	Semi-Annually	Annually	Bi-Annually	Occasionally	Amount Foam Use in Training: Less than 5 gallons	5 gallons	5 to 10 gallons	More than 10 gallons	Spent Foam Destination: Storm Sewer	Sanitary Sewer	On-Site Septic	Ground	Other	Training Location	Class B AFFF	Class B AR-AFFF	Class B Protein	Class B FP	Class B FFFP	Class B AR-FFP	Class A-B HiEx	Class A	Training Foam	Other	Foam Used in Training?	Annual Foam Usage: 10 Gallons or less	11-25 Gallons	26-100 Gallons	101-200 Gallons	More than 200 Gallons	Current Foam Use?	Historic Foam Use?	Site Note	SITE RANKING CRITERIA: Foam Type: 3M current or former use in training=8	Annual Class B Foam Usage in Training: 5 gal or less=2; 6 to 10 gal=4; >10 gal=6	Surface Water Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wetlands Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Karst Area: Active=5; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wellhead Protection Area: site in WPA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
																							300 71st Av., Fridley (North Metro Fire Training Center)		1								Y	X					N	Y										
Fridley	Fridley			X	N	Y							X	X								X									2			N						Y		Discharge to retention pond.	8	2	3	3	4	3	5	28
																									3								N	X																
Garfield	Garfield	X			Y	Y						X		X							X		Gravel pit								2			Y	X							Class B foam not used in training, site not ranked.								
																									9										N																
Gaylord	Gaylord		X			Y				X				X							X		Not specified								7			Y	X					Y	Y	Class B foam not used in training, site not ranked.								
Geneva	Geneva	X			N	Y			X					X							X		1st Av. NW & 1st St. NW; 1st Av. SE & 3rd St. SE; and 500 Block of Main St. W.								2			Y	X							Class A foam use only, site not ranked.								
Gibbon	Gibbon		X		N	Y				X					X						X		Various								12			Y			X			Y	Y	Class A foam type not specified.								
																																													Class A foam use only, site not ranked.								
Glenville	Glenville	X			N	Y					X			X							X		High school football field		4								Y	X								0	2	3	1	4	3	0	13
Glenwood	Glenwood	X				Y						X		X							X		Not specified								5			Y	X							Class A foam use only, site not ranked.								
																							7800 Golden Valley		7									Y		X																
Golden Valley	Golden Valley	X			N	Y				X						X		X			X		Road								7			Y			X					0	6	3	1	4	3	5	22
Goodland	Goodland		X		N	Y					X					X					X		Goodland Community Center-Firehall, 13502 Community Center Dr.								2			Y		X					Y	Y	Have built-in tank truck, but does not used compressed air.								
																																												Class A foam use only, site not ranked.								
Graceville	Graceville	X			N	Y				X				X				X			X		City dump Graceville								2			Y			X														
																																													Class A foam use only, site not ranked.								
Grand Rapids	Grand Rapids			X	N	Y					X					X		X			X		Fire hall, 18 NE 5th St., and various								2			Y				X														
																																													Class A foam use only, site not ranked.								
Green Isle	Green Isle	X			N	N																	Not applicable								6			N	X																
																									9										N	X																
Greenbush	Greenbush		X		Y	Y						X		X							X		Not specified								9			N	X																
																																													Class B foam not used in training, site not ranked.								
Grey Eagle	Grey Eagle	X			N	Y					X			X							X		Old baseball field								2			Y	X					Y												
																																													Class A foam use only, site not ranked.								
Grove City	Grove City	X			N	Y					X			X							X		Not specified								7			Y	X																
																																													Class A foam use only, site not ranked.								
Gunflint Trail	Grand Marais	X			N	Y					X			X							X		Various								12			Y	X							Foam type not specified.								
																																													Class A foam use only, site not ranked.								
Hackensack	Hackensack		X		Y	Y					X			X							X		Not specified								2			Y	X																
																																													Class A foam use only, site not ranked.								
Ham Lake	Ham Lake			X	N	Y					X			X							X		Various								2			Y	X					Y	Y	One CAFS unit on rescue unit.								
																																													Class A foam use only, site not ranked.								
Hamburg	Hamburg	X			N	Y					X			X							X		181 Broadway, Hamburg						7				Y	X								0	2	3	3	2	3	0	13
Hamel	Hamel		X		Y	Y		X							X			X			X		Fire Station, 92 Hamel Road and various								2			Y					X	Y		300 gallons foam used annually.								
																																													Class A foam use only, site not ranked.								

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STATE_02821009

TABLE 2
ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES

Types of Foam Used
(1) 3M brand foam
(2) Ansul Silv-ex
(3) Ansulite
(4) Other/ unspecified Ansul foam product
(5) Angus Forexpan S
(6) Angus Hi-Combat
(7) Other/unspecified Angus foam product
(8) National Foam product.
(9) Chemguard foam product
(10) HCT F-500 A-B
(11) Pyrocom Aqua Stiks
(12) Other or unspecified foam product

Department	Location	Foam Use Frequency for Fire Response: 0-25% of Fires	25-50% Fires	75-100% Fires	CAFS Tank on Engine?	Foam Used in Training?	Foam Use Frequency in Training: Weekly	Monthly	Quarterly	Semi-Annually	Annually	Bi-Annually	Occasionally	Amount Foam Use in Training: Less than 5 gallons	5 gallons	5 to 10 gallons	More than 10 gallons	Spent Foam Destination: Storm Sewer	Sanitary Sewer	On-Site Septic	Ground	Other	Training Location	Types of Foam Used: Class B AFFF	Class B AR-AFFF	Class B Protein	Class B FP	Class B FFFP	Class B AR-FFP	Class A-B HiEx	Class A	Training Foam	Other	Foam Used in Training?	Annual Foam Usage: 10 Gallons or less	11-25 Gallons	26-100 Gallons	101-200 Gallons	More than 200 Gallons	Current Foam Use?	Historic Foam Use?	Site Note	SITE RANKING CRITERIA: Foam Type: 3M current or former use in training=8	Annual Class B Foam Usage in Training: 5 gal or less=2; 6 to 10 gal=4; >10 gal=6	Surface Water Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wetlands Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Karst Area: Active=5; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wellhead Protection Area: site in WPA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
Hardwick	Hardwick	X			N	Y					X			X							X		Ball field park lot, Hardwick										Y	X					Y		Foam type and quantity not specified.	8[a]	2	1	1	0	0	0	12
Harmony	Harmony	X			N	Y					X				X			X			X		Fire hall, Main Av. S. and Brush dump, east of intersection of 139 & Gordon Rd. (not mappable).	3									Y	X					Y												
																														2			Y	X					Y										
																														11			Y						Y			0	2	3	3	5	1	0	14
Hartland	Hartland	X			N	N																	Not applicable							2			N	X							Class A foam use only, site not ranked.							
Hastings	Hastings	X			N	Y						X				X		X			X		Various	1									Y																			
																									3								Y																	
																														7			Y	X								8	2	Multiple training locations, site not ranked.						
Hawley	Hawley	X			N	N																	Not applicable							2			N	X					Y	Y		Class A foam use only, site not ranked.							
Herman	Herman			X	N	Y			X						X						X		Various							9			Y			X				Y		Class A foam use only, site not ranked.							
Hewitt	Hewitt	X			N	Y					X			X				X					Not specified							7			Y	X					Y		Have only had foam for past year.	Class A foam use only, site not ranked.							
Hibbing	Hibbing	X			N	Y					X			X							X		2320 Brooklyn Dr., Hibbing							2			N	X																	
																																10	Y	X								0	2	1	1	0	3	4	11
Hills Area	Hills	X			N	Y					X			X							X		700 block of Central Ave.							2			Y	X					Y		Class A foam use only, site not ranked.							
Hill City	Hill City		X		N	N																	Not applicable							2			N	X							Class A foam use only, site not ranked.							
Hinckley	Hinckley				Y	Y						X				X					X		End of cul-de-sac on Industrial Road just east of Morris Ave.							2										Foam quantity not specified.	Class A foam use only, site not ranked.							
Hitterdal	Hitterdal	X			N	Y			X					X							X		Salvage yard, build sites							12			Y	X					Y	Y	Class A foam type not specified.	Class A foam use only, site not ranked.							
Holdingford	Holdingford		X		N	Y				X				X				X			X		Tarred parking lots around fire hall (480 Main) or at high school (900 5th St.); and softball field at 201 Main.							2			Y			X			Y	Y	Remaining stock of Ansul WetWater foam being used on grass fires. Silv-ex foam annual use ranges from 5 to 50 gallons/year.	Class A foam use only, site not ranked.							
																														4			N	X						Y									
Holland	Holland				N	Y				X				X							X		Not specified																			Foam type and quantity not specified.	8[a]	4	Training site not specified, site not ranked.						

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STATE_02821010

TABLE 2

ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES

Department	Location	Foam Use Frequency for Fire Response			CAFS Tank on Engine?	Foam Used in Training?	Foam Use Frequency in Training							Amount Foam Use in Training				Spent Foam Destination					Training Location	Types of Foam Used (1) 3M brand foam; (2) Ansul Silv-ex; (3) Ansulite; (4) Other/ unspecified Ansul foam product; (5) Angus Forexpan S; (6) Angus Hi-Combat; (7) Other/unspecified Angus foam product; (8) National Foam product.; (9) Chemguard foam product; (10) HCT F-500 A-B; (11) Pyrocom Aqua Stiks; (12) Other or unspecified foam product												Foam Used in Training?	Annual Foam Usage					Current Foam Use?	Historic Foam Use?	Site Note	SITE RANKING CRITERIA							OVERALL SITE RANKING
		0-25% of Fires	25-50% Fires	75-100% Fires			Weekly	Monthly	Quarterly	Semi-Annually	Annually	Bi-Annually	Occasionally	Less than 5 gallons	5 gallons	5 to 10 gallons	More than 10 gallons	Storm Sewer	Sanitary Sewer	On-Site Septic	Ground	Other		Class B AFFF	Class B AR-AFFF	Class B Protein	Class B FP	Class B FFFP	Class B AR-FFP	Class A-B HiEx	Class A	Training Foam	Other		10 Gallons or less	11-25 Gallons	26-100 Gallons	101-200 Gallons	More than 200 Gallons				Foam Type: 3M current or former use in training=8	Annual Class B Foam Usage in Training: 5 gal or less=2; 6 to 10 gal=4; >10 gal=6	Surface Water Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wetlands Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Karst Area: Active=5; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wellhead Protection Area: site in WPA=5; within 1/4 mile=4; within 1 mile=2; No=0	
																																7																			
																																	1		Y	X														
Hopkins	Hopkins	X			N	Y						X		X				X					101 17th Av. S.									10		N	X							0	2	3	1	4	3	5	18
																									12							9		N	X														
																														4				Y	X							AFFF-AR foam type Lorcon Pyrosol; Class AB Hi-Ex type Ansul Jet-X. Also train with Dawn dish soap.							
Hoyt Lakes	Hoyt Lakes			X	N	Y						X		X							X		Triple ballfields or near Hoyt Lakes fire hall, 123-1/2 Kennedy Memorial Dr.								2		Y		X						0	2	3	3	0	3	0	11
																									7									Y	X					Y	Y								
Hugo	Hugo	X			N	Y						X				X					X		5223 140th St. N. and 4630 Fable Rd Ct. N.								7		Y	X					Y	Y		0	2	3	3	4	3	5	20
																								1										Y	X					N	Y								
																									1									Y	X					N	Y								
Hutchinson	Hutchinson		X		N	Y			X					X				X			X		205 3rd Av. SE and 1300 Adams St. SE								2		Y	X					Y			8	8	3	1	0	3	5	26
Ideal	Pequot Lakes		X		Y	Y				X				X							X		Township transfer station								7		Y		X				Y	Y		Class A foam use only, site not ranked.							
Industrial	Saginaw	X			Y	Y						X		X							X		Fire hall park lot, 7519 Albert Rd., Saginaw	12									Y	X							Uses DNR-supplied foam; DNR uses only Class A foam.	Class A foam use only, site not ranked.							
Isle	Isle	X			Y	N																	Not applicable								12		N	X							Pump truck; Class A foam type Phos-Chek WD 881.	Foam not used in training, site not ranked.							
Jackson	Jackson			X	Y	Y				X				X				X					305 Sheridan								2		Y	X								Class A foam use only, site not ranked.							
Jasper	Jasper	X			N	Y					X			X							X		Vacant lot, Wall St. W.								2		N		X				Y			Class A foam use only, site not ranked.							
																									3									N	X					Y									
																																2		N	X					Y									
Jeffers	Jeffers	X			N	Y					X			X							X		Duroe St. & Deaver St.									1	N	X					Y			Class B foam not used in training, site not ranked.							
Kasson	Kasson			X	N	Y					X				X						X		2408 670th St.								2		Y			X			Y			Class A foam use only, site not ranked.							
Kerkhoven	Kerkhoven		X		N	Y					X			X				X			X		Pacific Av. & 9th St. S., and KMS High School park lot, 1st St. N.								7		Y		X				Y	Y		Class A foam use only, site not ranked.							
Kettle River	Kettle River	X			N	N																	Not applicable								9		N	X								Class A foam use only, site not ranked.							
																														12				N	X														
Kiester	Kiester	X			N	Y																	South Central College, North Mankato.								2		N		X						Training off-site at VoTech.	Training at community college, site not ranked.							
Kinney-Great Scott	Kinney	X			N	N																	Not applicable								2		N	X								Class A foam use only, site not ranked.							

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STATE_02821011

TABLE 2
ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES

Department	Location	Foam Use Frequency for Fire Response: 0-25% of Fires	25-50% Fires	75-100% Fires	CAFS Tank on Engine?	Foam Used in Training?	Foam Use Frequency in Training: Weekly	Monthly	Quarterly	Semi-Annually	Annually	Bi-Annually	Occasionally	Amount Foam Use in Training: Less than 5 gallons	5 gallons	5 to 10 gallons	More than 10 gallons	Spent Foam Destination: Storm Sewer	Sanitary Sewer	On-Site Septic	Ground	Other	Training Location	Types of Foam Used: Class B AFFF	Class B AR-AFFF	Class B Protein	Class B FP	Class B FFFP	Class B AR-FFP	Class A-B HiEx	Class A	Training Foam	Other	Foam Used in Training?	Annual Foam Usage: 10 Gallons or less	11-25 Gallons	26-100 Gallons	101-200 Gallons	More than 200 Gallons	Current Foam Use?	Historic Foam Use?	Site Note	SITE RANKING CRITERIA: Foam Type: 3M current or former use in training=8	Annual Class B Foam Usage in Training: 5 gal or less=2; 6 to 10 gal=4; >10 gal=6	Surface Water Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wetlands Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Karst Area: Active=5; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wellhead Protection Area: site in WPA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
																								(1) 3M brand foam	(2) Ansul Silv-ex	(3) Ansulite	(4) Other/ unspecified Ansul foam product	(5) Angus Forexpan S	(6) Angus Hi-Combat	(7) Other/unspecified Angus foam product	(8) National Foam product.	(9) Chemguard foam product	(10) HCT F-500 A-B	(11) Pyrocom Aqua Stiks	(12) Other or unspecified foam product																				
LaCrescent	LaCrescent			X	Y	Y				X						X		X			X		LaCrescent HS park lot and soccer field, 14th St. S & Lancer Blvd.								6			Y		X						Class A foam use only, site not ranked.							
Lake Elmo	Lake Elmo		X		N	Y						X		X							X			1										N	X														
																										4					7			Y			X					8	2	Multiple training locations, site not ranked.						
Lakefield	Lakefield	X			N	N																	Not applicable		3						2			N	X				Y												
Lakewood Twp	Duluth			X	N	N																	Not applicable								2			N			X					Class A foam use only, site not ranked.							
Lanesboro	Lanesboro	X			N	Y						X		X							X		Lanesboro ball park parking lot, County Road 8	11							11			N	X				N			Class B foam not used in training, site not ranked.							
Le Center	Le Center		X		Y	N																	Not applicable								2			N			X			Y			Class A foam use only, site not ranked.							
Le Sueur	Le Sueur		X		Y	N																	Not applicable								2			N			X			Y	Y		Class A foam use only, site not ranked.							
Leaf Valley Twp	Milton a	X			Y	Y					X			X							X		In a field on a hay bale.								12			Y	X							Class A foam use only, site not ranked.							
Lewiston	Lewiston	X			N	Y						X		X							X		Not specified								12			Y	X						Class A foam type and quantity not specified.	Class A foam use only, site not ranked.							
Lexington	Lexington	X			N	Y					X			X							X		S. Hwy Dr. & Griggs Av.								4			Y	X							Class A foam use only, site not ranked.							
Linwood Twp	Stacy		X		N	Y					X					X					X		Behind fire station, 22870 Type Creek Dr., Stacy	1	1						2			Y	X					Y	Y		8	4	3	3	0	3	0	21
																																		N		X				Y									
Lismore	Lismore	X			N	Y				X				X							X		Barn fire, Birkett & 170th St.																			Foam type and quantity not specified.	8[a]	4	3	1	0	0	0	16
Little Canada	Little Canada			X	N	Y					X			X							X		Park lot behind fire station, 325 Little Canada Rd.	4							2			N								Class B foam not used in training, site not ranked.							
																																		Y	X					Y									
Little Falls	Little Falls	X			N	Y						X		X							X		Fire hall, 314 1st Street NE	1							2		10	N		X			N	Y		Class B foams not used in training, site not ranked.							
Littlefork	Littlefork	X			N	Y					X			X				X					Fire hall, McPherson & 3rd Av.																			Foam type and quantity not specified.	8[a]	2	3	3	0	3	0	19
Long Prairie	Long Prairie	X			N	Y					X			X				X			X		Fire hall park lot, 615 Lake St. S.								2			Y	X					Y		Class A foam use only, site not ranked.							
Longville	Longville	X			N	Y							X	X							X		1350 W. Cty. Rd. 5	1							2			N	X					Y		Class B foam not used in training, site not ranked.							
																																		Y			X			Y									
Lonsdale	Lonsdale	X			N	Y							X	X							X		Not specified								7			Y	X							Foam rarely used in training.	0	2	Training site not specified, site not ranked.						
Loretto	Loretto	X			N	Y					X				X			X					259 Medina St. N.	1										Y	X								8	2	1	1	0	1	5	18

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STATE_02821012

TABLE 2
ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES

Department	Location	Foam Use Frequency for Fire Response: 0-25% of Fires	25-50% Fires	75-100% Fires	CAFS Tank on Engine?	Foam Used in Training?	Foam Use Frequency in Training: Weekly	Monthly	Quarterly	Semi-Annually	Annually	Bi-Annually	Occasionally	Amount Foam Use in Training: Less than 5 gallons	5 gallons	5 to 10 gallons	More than 10 gallons	Spent Foam Destination: Storm Sewer	Sanitary Sewer	On-Site Septic	Ground	Other	Training Location	Types of Foam Used: Class B AFFF	Class B AR-AFFF	Class B Protein	Class B FP	Class B FFFP	Class B AR-FFP	Class A-B HiEx	Class A	Training Foam	Other	Foam Used in Training?	Annual Foam Usage: 10 Gallons or less	11-25 Gallons	26-100 Gallons	101-200 Gallons	More than 200 Gallons	Current Foam Use?	Historic Foam Use?	Site Note	SITE RANKING CRITERIA: Foam Type: 3M current or former use in training=8	Annual Class B Foam Usage in Training: 5 gal or less=2; 6 to 10 gal=4; >10 gal=6	Surface Water Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wetlands Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Karst Area: Active=5; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wellhead Protection Area: site in WPA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
Lutsen	Lutsen			X	Y	Y			X					X							X		Field in back of fire hall.								2			Y	X					Y	Y		Class A foam use only, site not ranked.								
Lyle	Lyle		X		N	Y					X			X				X					Grove St. & 2nd Av.								2			Y	X					Y			Class A foam use only, site not ranked.								
Madelia	Madelia		X		N	Y					X			X							X		Various	1		12					12			Y	X		X			Y	Y	Class A foam type Stevens.	8	2	Multiple training locations, site not ranked.					
Mahtomedi	Mahtomedi			X	Y	Y		X						X							X		Live fire training burns.	7							7			Y		X		X					0	6	Multiple training locations, site not ranked.					
Mahtowa	Mahtowa	X			Y	N																	Not applicable								2			N	X					Y			Class A foam use only, site not ranked.								
Makinen	Makinen	X			N	Y					X			X							X		Fire hall lawn, 6661 Wilson Rd.								2			Y	X					Y	Y		Class A foam use only, site not ranked.								
Mankato	Mankato	X			N	Y					X					X		X					Fire Sta. #1, 300 Madison Av.	1	7						2			Y	X					N	Y											
																																		Y	X					Y		AFFF-AR type Angus AlcoSeal.	8	4	1	0	5	1	0	19
Maple Grove	Maple Grove	X			N	Y					X					X					X		Station 5, 6900 Lawndale Ln; Station 2, 13450 Maple Knoll Way		7						5			N	X							AFFF-AR type Angus Tridex; Train								
																																7		Y			X				Foam type Angus Trainol. Use more than 100 gallons per training event.								
																																8		Y			X					Class B foam not used in training, site not ranked.								
Maple Hill	Grand Marais	X			N	Y							X	X							X		One time training at Gunflint Trail fire hall.								2			Y	X						Y	Used foam in training one time.		Class A foam use only, site not ranked.								
Marble	Marble	X			Y	N																	Not applicable								2			N	X								Class A foam use only, site not ranked.								
Marine On St Croix	Marine On St Croix	X			N	Y					X					X		X					201 Judd Street	1							12			N		X				Y	Y											
																																7		Y	X					Y	Y		Class B foam not used in training, site not ranked.								
Marshall	Marshall		X		Y	Y			X					X							X		Marshall Merit Center, Cty Rd 33 (1001 W. Erie Rd.)		1						2			N						N												
																																12		Y		X						Training foam type Trainol. Use of 3M foam in training not specified.	6[3]	6	3	3	0	1	0	21
Mayer	Mayer	X			N	Y					X			X							X		House burns								1			Y	X					Y			Class A foam use only, site not ranked.								
Maynard	Mamard	X			N	Y						X		X				X					Mable St. & Sherman								2			Y						N	Y	Foam quantities not specified.	0	2	1	1	0	3	0	7
																																9		Y						Y										
Mazeppa	Mazeppa	X			N	Y					X			X							X		Junk yard (various)	11							11			Y									0	2	Multiple training locations, site not ranked.							
Meadowlands	Meadowlands			X	Y	Y			X					X							X		Fire Hall at 9955 Hwy 133, and Hwy 133 & Hwy 7								2			Y		X				Y	Y		Class A foam use only, site not ranked.								
Medicine Lake	Medicine Lake	X			Y	N																	Not applicable								2			N	X								Class A foam use only, site not ranked.								
Melrose	Melrose	X			Y	N																	Not applicable								4			N			X			Y	Y		Class A foam use only, site not ranked.								
Menagha	Menagha			X	N	Y					X			X							X		Not specified																			Foam type and quantity not specified.	Foam type and quantitiy not specified, training site not specified; site not ranked.								

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STATE_02821013

TABLE 2
ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES

Department	Location	Foam Use Frequency for Fire Response: 0-25% of Fires	25-50% Fires	75-100% Fires	CAFS Tank on Engine?	Foam Used in Training?	Foam Use Frequency in Training: Weekly	Monthly	Quarterly	Semi-Annually	Annually	Bi-Annually	Occasionally	Amount Foam Use in Training: Less than 5 gallons	5 gallons	5 to 10 gallons	More than 10 gallons	Spent Foam Destination: Storm Sewer	Sanitary Sewer	On-Site Septic	Ground	Other	Training Location	Types of Foam Used: Class B AFFF	Class B AR-AFFF	Class B Protein	Class B FP	Class B FFFP	Class B AR-FFP	Class A-B HiEx	Class A	Training Foam	Other	Foam Used in Training?	Annual Foam Usage: 10 Gallons or less	11-25 Gallons	26-100 Gallons	101-200 Gallons	More than 200 Gallons	Current Foam Use?	Historic Foam Use?	Site Note	SITE RANKING CRITERIA: Foam Type: 3M current or former use in training=8	Annual Class B Foam Usage in Training: 5 gal or less=2; 6 to 10 gal=4; >10 gal=6	Surface Water Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wetlands Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Karst Area: Active=5; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wellhead Protection Area: site in WPA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
Middle River	Middle River			X	N	Y						X		X				X			X		2nd St. & Hill Av.								12			Y	X					Y	Y	Foam type US Foam.	Class A foam use only, site not ranked.							
Milan	Milan	X			N	Y						X		X							X		Not specified								12			Y	X							Class A foam type not specified.	Class A foam use only, site not ranked.							
Minneapolis	Minneapolis	X			N	Y					X			X							X		25 37th Ave. NE	1							4			Y	X					N	Y		8	2	3	1	4	1	0	19
																									4									N	X					Y								
Minneota	Minneota	X			Y	N																	Not applicable	8							2			N	X					N	Y		Foam not used in training, site not ranked.							
																									1									Y	X					Y	Y								
																									1									Y	X					Y	Y								
Montevideo	Montevideo	X			N	Y							X		X						X		Fire station, 103 Canton Av.		3						2			N	X					Y	N		8	2	3	3	0	1	0	17
																																		Y	X					Y	Y								
Montgomery	Montgomery	X			Y	Y					X			X				X					Front of fire hall (201 Ash Av W)								2			Y		X				Y			Class A foam use only, site not ranked.							
Montrose	Montrose	X			N	Y					X			X				X					260 2nd St. S.		7						7			N																			
																																		Y	X								Class B foam not used in training, site not ranked.							
Moorhead	Moorhead	X			N	Y					X			X							X		Moorhead Youth Hockey Arena, ditch west of arena, 707 SE Main Av.	1										N	X					N	Y								
																									8									N	X					Y								
																															2			Y		X				Y								
																																12		Y	X								Class B foams not used in training, site not ranked.							
Moose Lake	Moose Lake		X		N	Y					X			X							X		North side of fire hall, park lot 600 Hwy. 73								2			Y		X							Class A foam use only, site not ranked.							
Morgan	Morgan	X			N	Y					X			X							X		Trap range/city dump; driveway at the end of 6th St.								2			Y	X					Y			Class A foam use only, site not ranked.							
Morristown	Morristown	X			Y	Y					X			X							X		Baseball field, 3rd St. SW								5			Y	X					Y	Y		Class A foam use only, site not ranked.							
Motley	Motley	X			N	Y					X			X							X		Vacant lot, Motley maintenance garage, 196 Eldrege St. W.								2			Y	X								Class A foam use only, site not ranked.							
																									3									N	X					Y								
Mound	Mound	X			N	Y					X			X							X		Various - live burn training								2			Y		X				Y			Class B foam not used in training, site not ranked.							
																									9									N	X													
																									8									N	X													
Mountain Iron	Mountain Iron	X			Y	Y				X				X							X		Empty lot across from 6866 Slate St.			3					2			N	X					Y			Class B foam not used in training, site not ranked.							
																																		Y		X				Y								
Myrtle	Myrtle	X			N	Y					X			X							X		Myrtle ballfield																			Foam type and quantity not specified.	8[3]	2	1	0	5	1	0	17
Nashwauk	Nashwauk	X			N	N																	Not applicable								2			N			X			Y			Class A foam use only, site not ranked.							
Nassau	Nassau	X			N	Y					X			X							X		Street in front of fire hall, 207 4th St								2			Y	X								Class A foam use only, site not ranked.							
																															7			N	X					Y	N								

2222.0057

STATE_02821014

TABLE 2

ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES

Department	Location	Foam Use Frequency for Fire Response: 0-25% of Fires	25-50% Fires	75-100% Fires	CAFS Tank on Engine?	Foam Used in Training?	Foam Use Frequency in Training: Weekly	Monthly	Quarterly	Semi-Annually	Annually	Bi-Annually	Occasionally	Amount Foam Use in Training: Less than 5 gallons	5 gallons	5 to 10 gallons	More than 10 gallons	Spent Foam Destination: Storm Sewer	Sanitary Sewer	On-Site Septic	Ground	Other	Training Location	Types of Foam Used: Class B AFFF	Class B AR-AFFF	Class B Protein	Class B FP	Class B FFFP	Class B AR-FFP	Class A-B HiEx	Class A	Training Foam	Other	Foam Used in Training?	Annual Foam Usage: 10 Gallons or less	11-25 Gallons	26-100 Gallons	101-200 Gallons	More than 200 Gallons	Current Foam Use?	Historic Foam Use?	Site Note	SITE RANKING CRITERIA: Foam Type: 3M current or former use in training=8	Annual Class B Foam Usage in Training: 5 gal or less=2; 6 to 10 gal=4; >10 gal=6	Surface Water Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wetlands Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Karst Area: Active=5; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wellhead Protection Area: site in WPA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
Nerstrand	Nerstrand	X			N	Y						X			X						X		Various houses.									1	Y	X					N	Y		8	2	Multiple training locations, site not ranked.						
Nevis	Nevis		X		Y	Y				X				X							X		104 Miller St.								2		Y		X							Class A foam use only, site not ranked.							
New Brighton	New Brighton			X	N	N																	Not applicable	1									N	X										Foam not used in training, site not ranked.							
																									3									N	X																			
New Prague	New Prague			X	N	Y				X						X		X					11th Av. NW & 2nd St. NW and Columbus Av. N. & 12th St. NE								4			N			X			Y	Y															
																															6			Y			X			Y	Y	Class A foam use only, site not ranked.							
																															2			Y	X					Y	Y										
New Richland	New Richland	X			N	Y						X		X							X		Grassy lot on east side of fire hall, 203 Broadway Av. N.; closest cross street 1st St. NE									9										Type of Chemguard foam not specified.	0	2	3	1	4	3	0	13
New Ulm	New Ulm	X			N	N																	Not applicable		3						2			N								Foam quantity not specified.										
																																											Foam not used in training, site not ranked.							
New York Mills	New York Mills			X	N	Y							X	X				X			X		Not specified	12									Y	X					Y		Class B AFFF specified as Silv-ex.	0	2						
																															2			N		X				Y					Training site not specified, site not ranked.							
Newfolden	Newfolden	X			N	Y					X			X				X			X		Fire hall									12	N	X							Other foam type: Oxford 227 Wetting Agent; use in training not specified.	0	2	3	1	0	1	0	7
																									1									N																			
Newport	Newport	X			N	N																	Not applicable		3						7			N		X							Foam not used in training, site not ranked.							
																								7										N	X																			
Nisswa	Nisswa		X		N	N																	Not applicable		7						7			N	X							Foam not used in training, site not ranked.							
North Mankato	North Mankato	X			N	Y				X				X				X			X		Park lot behind Fire Sta. #2, 1825 Howard Dr.								2		Y		X				Y	Y		Class A foam use only, site not ranked.							
																															1			Y	X					Y	Y										
North St. Paul	North St. Paul		X		N	Y				X						X					X		No. St. Paul Public Works, 2303 1st St. N.								1		Y		X				Y	Y	Training site located in or adjacent to a Well Protection Area.	8	6	3	1	2	3	5	28

2222.0058

STATE_02821015

TABLE 2
ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES

Department	Location	Foam Use Frequency for Fire Response			CAFS Tank on Engine?	Foam Used in Training?	Foam Use Frequency in Training								Amount Foam Use in Training				Spent Foam Destination					Training Location	Types of Foam Used																Foam Used in Training?	Annual Foam Usage						Current Foam Use?	Historic Foam Use?	Site Note	SITE RANKING CRITERIA							OVERALL SITE RANKING
		0-25% of Fires	25-50% Fires	75-100% Fires			Weekly	Monthly	Quarterly	Semi-Annually	Annually	Bi-Annually	Occasionally		Less than 5 gallons	5 gallons	5 to 10 gallons	More than 10 gallons	Storm Sewer	Sanitary Sewer	On-Site Septic	Ground	Other		Class B AFFF	Class B AR-AFFF	Class B Protein	Class B FP	Class B FFFP	Class B AR-FFP	Class A-B HiEx	Class A	Training Foam	Other								10 Gallons or less	11-25 Gallons	26-100 Gallons	101-200 Gallons	More than 200 Gallons				Foam Type: 3M current or former use in training=8	Annual Class B Foam Usage in Training: 5 gal or less=2; 6 to 10 gal=4; >10 gal=6	Surface Water Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wetlands Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Karst Area: Active=5; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wellhead Protection Area: site in WPA=5; within 1/4 mile=4; within 1 mile=2; No=0	
																								(1) 3M brand foam	(2) Ansul Siv-ex	(3) Ansulite	(4) Other/ unspecified Ansul foam product	(5) Angus Forexpan S	(6) Angus Hi-Combat	(7) Other/unspecified Angus foam product	(8) National Foam product.	(9) Chemguard foam product	(10) HCT F-500 A-B	(11) Pyrocom Aqua Stiks	(12) Other or unspecified foam product																														
Northfield	Northfield		X		N	Y							X		X				X					City street shop, 1710 River Dr.	1						9			N	N		X		X			N		X			Train with foam when get new equipment, approximately every 5 years. Have not trained with foam in 10 to 15 years.	Class B foam not used in training, site not ranked.							
Northland	Canyon	X			Y	Y					X				X							X		Fire hall, 7271 Hwy. 53, Canyon							2																	Foam type and quantity not specified	8[3]	2	1	1	0	0	0	12
Northrop	Northrop	X			N	Y						X			X							X		Behind fire hall, 211 N. Bridgeman								11		Y	X						Y	Y	One stick used annually.	0	2	0	1	0	3	5	11
Oak Grove	Oak Grove		X		N	Y					X					X								19900 Nightengale St. NW, city hall parking lot, water runs into soccer fields.							7			Y			X			Y	Y	Y	Foam type Angus Fire Power	Class A foam use only, site not ranked.							
Oakdale	Oakdale			X	N	Y					X				X				X			X		Fire stations at 6633 15th St. N. and 5000 Hadley Ave. N.	7						7			N	X					Y	Y	Y		Class B foam not used in training, site not ranked.							
Odessa	Odessa	X			N	Y						X			X							X		City limits							2			Y	X						Y	Y		Class A foam use only, site not ranked.							
Odin	Odin	X			N	Y					X					X						X		111 No. 1st St.							2			Y	X						Y	Y		Class A foam use only, site not ranked.							
Okabena	Oklee	X			N	Y						X			X							X		Not specified							2			Y							Y	Y	Foam quantity not specified.	Class A foam use only, site not ranked.							
Olivia	Olivia		X		Y	Y					X				X							X		Various	3						7			Y	X						Y	Y		0	4	Multiple training locations, site not ranked.						
Ortonville	Ortonville	X			N	Y					X				X							X		Ortonville Airport. east on Hwy. 12, and Pro Auto, 547 Hwy. 12							2			Y	X						Y			Class A foam use only, site not ranked.							
Ottertail	Ottertail	X			N	Y						X				X						X		South Maple St.							12			Y	X							Y	Foam type Fire 1st Defense aerosol foam.	Class A foam use only, site not ranked.							
Palisade	Palisade	X			N	Y					X				X							X		Fire hall, 48052 Nature Av.							2			Y	X									Class A foam use only, site not ranked.							
Palo Regional	Aurora			X	N	Y						X			X							X		4547 Hwy. 100, Aurora							2			Y	X									Class A foam use only, site not ranked.							
Parkers Prairie	Parkers Prairie	X			Y	Y						X			X							X		Not specified							2			Y		X								Class A foam use only, site not ranked.							
Paynesville	Paynesville	X			N	Y							X		X							X		City airport	9						2					X							AFFF-AR type Chembuard 3%.	0	2	3	3	0	3	5	16
Pelican Rapids	Pelican Rapids	X			N	Y							X		X				X			X		2nd Av. NW & 4th St	11						2			Y	X						Y		AFFF type US Foam First Strike.	0	2	3	3	0	3	5	16

2222.0059

STATE_02821016

TABLE 2

ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES

Types of Foam Used
(1) 3M brand foam
(2) Ansul Silv-ex
(3) Ansulite
(4) Other/ unspecified Ansul foam product
(5) Angus Forexpan S
(6) Angus Hi-Combat
(7) Other/unspecified Angus foam product
(8) National Foam product.
(9) Chemguard foam product
(10) HCT F-500 A-B
(11) Pyrocom Aqua Stiks
(12) Other or unspecified foam product

Department	Location	Foam Use Frequency for Fire Response: 0-25% of Fires	25-50% Fires	75-100% Fires	CAFS Tank on Engine?	Foam Used in Training?	Foam Use Frequency in Training: Weekly	Monthly	Quarterly	Semi-Annually	Annually	Bi-Annually	Occasionally	Amount Foam Use in Training: Less than 5 gallons	5 gallons	5 to 10 gallons	More than 10 gallons	Spent Foam Destination: Storm Sewer	Sanitary Sewer	On-Site Septic	Ground	Other	Training Location	Class B AFFF	Class B AR-AFFF	Class B Protein	Class B FP	Class B FFFP	Class B AR-FFP	Class A-B HiEx	Class A	Training Foam	Other	Foam Used in Training?	Annual Foam Usage: 10 Gallons or less	11-25 Gallons	26-100 Gallons	101-200 Gallons	More than 200 Gallons	Current Foam Use?	Historic Foam Use?	Site Note	SITE RANKING CRITERIA: Foam Type: 3M current or former use in training=8	Annual Class B Foam Usage in Training: 5 gal or less=2; 6 to 10 gal=4; >10 gal=6	Surface Water Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wetlands Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Karst Area: Active=5; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wellhead Protection Area: site in WPA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
Pennock	Pennock	X			Y	Y				X				X							X		Old elevator lot, NW Atlantic Av.								6			Y	X								Class A foam use only, site not ranked.							
Pequot Lakes	Pequot Lakes	X			N	N								X									Not applicable	1							2			N						N	Y	No training with foam; quantity Class A foam not listed.								Foam not used in training, site not ranked.							
Perch Lake	Cloquet	X			N	Y					X			X							X		2779 Big Lake Rd.		12						2			N						Y		Class B AR-AFFF foam type not							
Pickwick	Winona			X	Y	Y				X				X							X		Green Terrace Trailer Park								2			Y	X					Y			Class B foam not used in training, site not ranked.							
Pierz	Pierz	X			N	Y						X		X							X		Intersection of 25 and 27, Pierz	1							2			Y						N		Quantity 3M foam not specified.	8	2	3	3	0	1	0	17
Pillager	Pillager	X			N	Y							X	X							X		Various								2			N	X					Y			Class A foam use only, site not ranked.							
Pine City	Pine City	X			N	Y					X			X							X		Not specified								2			N		X				N			Class A foam and training foam use only, site not ranked.							
																																6			N		X				Y									
																																4			Y	X					Y									
Pine River	Pine River		X		N	Y							X			X					X		Fair grounds and school grounds 1st Street, Pine River		3						2			Y			X			Y	Y	Training sites in and adjacent to Wellhead Protection Area.	0	2	3	3	0	1	5	14
Pipestone	Pipestone	X			N	Y						X		X				X					118 2nd Av NE and 1400 Block Apache Dr.								2			Y		X				Y			Class A foam use only, site not ranked.							
Plainview	Plainview			X	N	Y			X					X				X					Various								2			Y	X					Y			Class A foam use only, site not ranked.							
Plato	Plato			X	N	Y					X			X							X		Various								6			Y	X					Y	Y		Class A foam use only, site not ranked.							
Porter	Porter	X			N	Y				X				X				X					Fire hall, 301 Lone Tree Street			9					2			Y	X					Y										
																									1									Y	X					Y			0	4	3	1	0	1	0	9
Preston	Preston	X			N	Y					X		X		X						X		Fillmore County Fairgrounds Fillmore St. & Cty. Hwy. 12, Preston								2			N	X					N	Y	Class A foam type Clarey's First Strike.	8	2	3	3	5	3	4	28
																																12			Y	X					N	Y								
Prinsburg	Prinsburg	X			N	Y					X			X							X		Various								2			Y	X					Y		Siphon system	Class A foam use only, site not ranked.							
Prior Lake	Prior Lake		X		N	Y						X				X		X	X		X		NW corner Eagle Creek Av & Arcadia Av (spring 2007)		1						9			N	X					Y			Class B foam not used in training, site not ranked.							
Proctor	Proctor	X			Y	Y						X		X							X		Not specified	4							2			N	X					Y		AFFF type Ansul Jet-X. Foam used in training not specified.	0	2	Training site not specified, site not ranked.				

2222.0060

STATE_02821017

TABLE 2
ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES

Department	Location	Foam Use Frequency for Fire Response: 0-25% of Fires	25-50% Fires	75-100% Fires	CAFS Tank on Engine?	Foam Used in Training?	Foam Use Frequency in Training: Weekly	Monthly	Quarterly	Semi-Annually	Annually	Bi-Annually	Occasionally	Amount Foam Use in Training: Less than 5 gallons	5 gallons	5 to 10 gallons	More than 10 gallons	Spent Foam Destination: Storm Sewer	Sanitary Sewer	On-Site Septic	Ground	Other	Training Location	Types of Foam Used: Class B AFFF	Class B AR-AFFF	Class B Protein	Class B FP	Class B FFFP	Class B AR-FFP	Class A-B HiEx	Class A	Training Foam	Other	Foam Used in Training?	Annual Foam Usage: 10 Gallons or less	11-25 Gallons	26-100 Gallons	101-200 Gallons	More than 200 Gallons	Current Foam Use?	Historic Foam Use?	Site Note	SITE RANKING CRITERIA: Foam Type: 3M current or former use in training=8	Annual Class B Foam Usage in Training: 5 gal or less=2; 6 to 10 gal=4; >10 gal=6	Surface Water Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wetlands Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Karst Area: Active=5; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wellhead Protection Area: site in WPA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
																								(1) 3M brand foam	(2) Ansul Sliv-ex	(3) Ansulite	(4) Other/ unspecified Ansul foam product	(5) Angus Forexpan S	(6) Angus Hi-Combat	(7) Other/unspecified Angus foam product	(8) National Foam product.	(9) Chemguard foam product	(10) HCT F-500 A-B	(11) Pyrocom Aqua Stiks	(12) Other or unspecified foam product																				
Ramsey	Ramsey		X		N	Y							X	X							X		Not specified		7						6			N			X			Y		AFFF-AR type Angus Tridol, use "minimal". Foam used in training not specified.	0	2	Training site not specified, site not ranked.					
Randall	Randall		X		N	Y							X	X							X		Lot across street from fire station (105 Maplewood Dr)	11							11			N			X			Y			Class B foam not used in training, site not ranked.								
Randolph-Hampton	Randolph	X			N	Y					X			X							X		Various live burns.		1						2											Foam quantities not specified, foam used in training not specified.	8[3]	2	Multiple training locations, site not ranked.					
Red Wing	Red Wing			X	N	N																	Not applicable								2		7	N	X					Y			Foam not used in training, site not ranked.								
Redwood Falls	Redwood Falls	X			N	Y			X						X						X		Redwood County								2			Y	X					Y			Class A foam use only, site not ranked.								
Remer	Remer	X			N	Y					X			X							X		316 Main St. E.								2			Y			X						Class A foam use only, site not ranked.								
Robbinsdale	Robbinsdale		X		N	Y						X			X			X					Not specified	1										Y	X					N	Y									
																									1									Y	X					N	Y									
																															2			Y	X					Y									
																															8			Y	X					Y			8	2	Training site not specified, site not ranked.					
Rochester	Rochester	X			N	Y					X				X						X		2021 41st St. NW	1									10	Y			X						8	2	1	1	5	3	5	25
Rochester	Rochester	X			N	Y					X			X							X		Fire Sta. 1: S. Broadway & 6th St.; Fire Sta. 2: Silver Lake Dr. & 7th St. NE; Fire Sta. 3: 2755 2nd St. SW; Fire Sta. 4: 1875 41st St. NW		4						2		10	N	X				X	Y	Y	Y	Class A foam only used for training; 500 Gallons HCT F-500 used annually. All fire stations located in or adjacent to Wellhead Protection Areas.	Class B foams not used in training, site not ranked.							
																															2			Y	X					N	Y									
Rollingstone	Rollingstone	X			N	Y					X				X						X		111 Broadway								7			Y	X								Class A foam use only, site not ranked.								
Rose Creek	Rose Creek	X			N	Y							X	X							X		Fire station								2			Y								Recently purchased Pumper with Class A foam; "very small amount" used for training.	Class A foam use only, site not ranked.							
Roseau	Roseau	X			N	Y						X			X						X		Roseau County Fairgrounds field, Main Ave. N.								9			Y		X				Y	Y		Class A foam use only, site not ranked.								
Rosemount	Rosemount	X			Y	Y					X			X				X	X		X		14700 Shannon Pkwy										10	N		X				Y			Class B foam not used in training, site not ranked.								

2222.0061

STATE_02821018

TABLE 2

ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES

Department	Location	Foam Use Frequency for Fire Response: 0-25% of Fires	25-50% Fires	75-100% Fires	CAFS Tank on Engine?	Foam Used in Training?	Foam Use Frequency in Training: Weekly	Monthly	Quarterly	Semi-Annually	Annually	Bi-Annually	Occasionally	Amount Foam Use in Training: Less than 5 gallons	5 gallons	5 to 10 gallons	More than 10 gallons	Spent Foam Destination: Storm Sewer	Sanitary Sewer	On-Site Septic	Ground	Other	Training Location	Types of Foam Used: Class B AFFF	Class B AR-AFFF	Class B Protein	Class B FP	Class B FFFP	Class B AR-FFP	Class A-B HiEx	Class A	Training Foam	Other	Foam Used in Training?	Annual Foam Usage: 10 Gallons or less	11-25 Gallons	26-100 Gallons	101-200 Gallons	More than 200 Gallons	Current Foam Use?	Historic Foam Use?	Site Note	SITE RANKING CRITERIA: Foam Type: 3M current or former use in training=8	Annual Class B Foam Usage in Training: 5 gal or less=2; 6 to 10 gal=4; >10 gal=6	Surface Water Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wetlands Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Karst Area: Active=5; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wellhead Protection Area: site in WPA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
																								(1) 3M brand foam	(2) Ansul Sliv-ex	(3) Ansulite	(4) Other/ unspecified Ansul foam product	(5) Angus Forexpan S	(6) Angus Hi-Combat	(7) Other/unspecified Angus foam product	(8) National Foam product.	(9) Chemguard foam product	(10) HCT F-500 A-B	(11) Pyrocom Aqua Stiks	(12) Other or unspecified foam product																				
Roseville	Roseville				N	N																	Not applicable																			Foam for fires only; foam type and quantity not specified.	Foam not used in training, site not ranked.							
Royalton	Royalton	X			N	Y					X			X							X		Not specified								7											Foam quantity not specified.	Class A foam use only, site not ranked.							
Rush City	Rush City	X			N	N																	Fire Station, 325 W. 5th St.	7							7			N	X		X			N		Train with Dreft laundry soap	Foam not used in training, site not ranked.							
Rushford	Rushford	X			Y	Y					X			X							X		Open lot in industrial park cul-de-sac on Enterprise Drive								2	12		Y	X		X			Y	Y	Y		Class A foam use only, site not ranked.							
Rushmore	Rushmore	X			N	Y				X				X							X		City dump								2			Y	X								Class A foam use only, site not ranked.							
Russell	Russell		X		N	N																	Not applicable											N								Foam type and quantity not specified	Foam not used in training, site not ranked.							
Sacred Heart	Sacred Heart	X			Y	N																	Not applicable								2			N	X					Y			Class A foam use only, site not ranked.							
Sandstone	Sandstone		X		N	Y					X			X							X		Fire hall, 114 Main Street								2			Y			X						Class A foam use only, site not ranked.							
Sartell-LeSauk	Sartell	X			N	Y					X			X							X		Open area in city		7					7				N			X					AFFF-AR type Angus Alco Seal 3%-6%, amount used "not much"; Class AB Hi-Ex Angus Foam Liquid.	0	2	Training site not mappable, site not ranked.						
Sauk Centre	Sauk Centre	X			Y	N																	Not applicable								2			N		X							Class A foam use only, site not ranked.							
Sauk Rapids	Sauk Rapids	X			N	N																	Dawn dish soap used in training at Sauk Rapids High School, 1835 Osauka Rd.																				Train with Dawn dish soap; other foam use not specified.	Foam not used in training, site not ranked.							
Scandia Valley	Cushing	X			N	Y					X				X						X		Fire hall, 3518 320th St.	12							12			N	X					Y			Foam types not specified.	Class B foam not used in training, site not ranked.							
Scanlon	Cloquet	X			N	N								X							X		One time training with new truck								2			N	X					Y	Y		Class A foam use only, site not ranked.							
Schroeder	Schroeder		X		N	Y					X			X							X		Tofte Park, Old Highway 61. (appears to be same training site as Tofte Fire Dept.)								9			Y	X					Y	Y		Class A foam use only, site not ranked.							
Seaforth	Seaforth	X			N	Y					X			X							X		Main & Oak St., Seaforth									7		Y	X					Y		Train foam type Angus Trainol.	Training foam only used for training, site not ranked.							
Sherburn	Sherburn	X			N	Y				X				X				X					Main & 2nd St. E.								2			Y	X					Y	Y		Class A foam use only, site not ranked.							
Silica Area	Hibbing	X			N	N																	Not applicable								2			N								Foam use "very little"	Class A foam use only, site not ranked.							

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TABLE 2
ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES

Department	Location	Foam Use Frequency for Fire Response: 0-25% of Fires	25-50% Fires	75-100% Fires	CAFS Tank on Engine?	Foam Used in Training?	Foam Use Frequency in Training: Weekly	Monthly	Quarterly	Semi-Annually	Annually	Bi-Annually	Occasionally	Amount Foam Use in Training: Less than 5 gallons	5 gallons	5 to 10 gallons	More than 10 gallons	Spent Foam Destination: Storm Sewer	Sanitary Sewer	On-Site Septic	Ground	Other	Training Location	Types of Foam Used: Class B AFFF	Class B AR-AFFF	Class B Protein	Class B FP	Class B FFFP	Class B AR-FFP	Class A-B HiEx	Class A	Training Foam	Other	Foam Used in Training?	Annual Foam Usage: 10 Gallons or less	11-25 Gallons	26-100 Gallons	101-200 Gallons	More than 200 Gallons	Current Foam Use?	Historic Foam Use?	Site Note	SITE RANKING CRITERIA: Foam Type: 3M current or former use in training=8	Annual Class B Foam Usage in Training: 5 gal or less=2; 6 to 10 gal=4; >10 gal=6	Surface Water Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wetlands Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Karst Area: Active=5; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wellhead Protection Area: site in WPA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
																								(1) 3M brand foam																											
																								(2) Ansul Silv-ex																											
																								(3) Ansulite																											
																								(4) Other/ unspecified Ansul foam product																											
																								(5) Angus Forexpan S																											
																								(6) Angus Hi-Combat																											
																								(7) Other/unspecified Angus foam product																											
																								(8) National Foam product.																											
																								(9) Chemguard foam product																											
																								(10) HCT F-500 A-B																											
																								(11) Pyrocom Aqua Stiks																											
																								(12) Other or unspecified foam product																											
Silver Bay	Silver Bay	X			Y	Y							X	X				X					Front of fire hall (87 Banks Blvd)								2			N		X														Class A foam use only, site not ranked.								
Silver Lake	Silver Lake	X			N	Y					X			X							X		Public Works storage area, 305 E. Main St.	7							6			N		X														Class A foam use only, site not ranked.								
Sleepy Eye	Sleepy Eye	X			Y	N															X		Not applicable		1									Y	X					Y	Y	Foam type Angus Tridex.	0	2	3	3	0	3	0	11
Solway	Solway	X			N	Y						X		X							X		Ditch by fire hall, 137 2nd St. NW								2			N		X														Foam not used in training, site not ranked.								
Solway Twp	Cloquet			X	Y	Y			X					X							X		Fire Station, 4027 Munger Shaw Rd., Cloquet								9			Y			X					Foam quantity not specified								
South Bend Twp	Mankato	X			N	N																	Not applicable	3							2			N	X															Class A foam use only, site not ranked.								
South Haven	South Haven			X	Y	Y						X		X							X		Train with other depts.		3						2			N	X															Foam not used in training, site not ranked.								
Spicer	Spicer	X			Y	N																	Not applicable								6			Y								Foam quantity not specified.								
Spring Grove	Spring Grove	X			Y	Y					X			X							X		Various								2			N								Have not yet trained with foam.								
SBM (Spring Lake Park, Blaine, Mounds View) Fire Dept.	Spring Lake Park			X	N	Y							X	X							X		North Metro Fire Training Center, Fridley (300 71st Ave.)								7			Y	X					Y	Y									Class A foam use only, site not ranked.								
St. Anthony	St. Anthony	X			N	Y						X		X				X			X		2800 Block of Anthony Ln. S.		3						4			Y				X				Train occasionally with new equipment.								
St. Bonifacius	St. Bonifacius			X	Y	Y				X				X							X		Not specified								2			N	X					Y	Y									Class A foam use only, site not ranked.								
St. Charles	St. Charles	X			Y	Y						X		X							X		Winona County Fairgrounds in St. Charles, and the St. Charles City Shop								6			Y	X					Y	Y									Class A foam use only, site not ranked.								
St. Clair	St. Clair	X			N	Y				X						X		X					City of St. Clair								7			Y	X					Y										Class A foam use only, site not ranked.								
St. Cloud	St. Cloud	X			N	Y					X						X				X		Open field near Sta. 2, 700 41st Av N., and Sta. 4, 1550 45th Av SE		9						9			Y		X						Foam type and quantity not specified.	8[3]	6	3	1	2	3	0	23
St. Francis	St. Francis	X			N	Y					X			X							X		City parking lot		7						7			Y	X		X			Y	Y	Use ~20 gal foam and ~40 gal training foam in training. 41st Av training site in or adjacent to Wellhead Protection Area	0	6	3	3	0	1	5	18
																																												Training site not mappable, site not ranked.								

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TABLE 2
ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES

Department	Location	Foam Use Frequency for Fire Response			CAFS Tank on Engine?	Foam Used in Training?	Foam Use Frequency in Training							Amount Foam Use in Training				Spent Foam Destination					Training Location	Types of Foam Used														Foam Used in Training?	Annual Foam Usage					Current Foam Use?	Historic Foam Use?	Site Note	SITE RANKING CRITERIA							OVERALL SITE RANKING
																								(1) 3M brand foam (2) Ansul Silv-ex (3) Ansulite (4) Other/ unspecified Ansul foam product (5) Angus Forexpan S (6) Angus Hi-Combat (7) Other/unspecified Angus foam product (8) National Foam product. (9) Chemguard foam product (10) HCT F-500 A-B (11) Pyrocom Aqua Stiks (12) Other or unspecified foam product																																
		0-25% of Fires	25-50% Fires	75-100% Fires			Weekly	Monthly	Quarterly	Semi-Annually	Annually	Bi-Annually	Occasionally	Less than 5 gallons	5 gallons	5 to 10 gallons	More than 10 gallons	Storm Sewer	Sanitary Sewer	On-Site Septic	Ground	Other		Class B AFFF	Class B AR-AFFF	Class B Protein	Class B FP	Class B FFFP	Class B AR-FFP	Class A-B HiEx	Class A	Training Foam	Other										10 Gallons or less	11-25 Gallons	26-100 Gallons	101-200 Gallons	More than 200 Gallons				Foam Type: 3M current or former use in training=8	Annual Class B Foam Usage in Training: 5 gal or less=2; 6 to 10 gal=4; >10 gal=6	Surface Water Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wetlands Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Karst Area: Active=5; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wellhead Protection Area: site in WPA=5; within 1/4 mile=4; within 1 mile=2; No=0	
St. James	St. James	X			Y	Y						X		X								Various house burns, last one at 11th St. S.								2			Y	X					Y		Got truck 3 years ago.	Class A foam use only, site not ranked.							
St. John's University	Collegeville	X			N	Y					X			X				X					Parking lot, east side of campus, Science Lot #2	1							12			Y	X					N			Class B foam not used in training, site not ranked.							
St. Joseph	St. Joseph		X		N	Y					X			X							X		Various								7			Y		X				Y			Class A foam use only, site not ranked.							
St. Louis Park	St. Louis Park			X	N	N																	Not applicable	3							2			N						N			Foam not used in training, site not ranked.							
St. Martin	St. Martin	X			N	Y							X	X							X		Fire hall parking lot (West Street).								2			N	X					Y			Class A foam use only, site not ranked.							
St. Paul	St. Paul	X			N	Y					X					X					X		1683 Energy Park Dr., St. Paul	1 1 3	 1 	 	 	 	 	 12 	 1 	 	 3													Y Y Y Y N	 X X X X	X 	 	 	 	 	N N Y Y Y	Y Y Y Y 	Train ~every 18 months. Class A/B foam type Kidde Hi-Ex.	8	4	1	1	5	3	0	22
St. Paul Park	St. Paul Park	X			N	Y					X					X				X			Marathon Refinery train grounds 100 3rd Av., St. Paul Park	1										Y	X					Y	Y	Training at Marathon Petroleum Refinery.	Training at off-site facility, site not ranked.							
St. Peter	St. Peter																						Not specified, front of questionnaire not filled out.								7			Y			X			Y	Y	Front of survey not completed. Foam training frequency and foam amounts assumed high for ranking purpose.	Class A foam use only, site not ranked.							
St. Stephen	St. Stephen			X	N	Y					X			X						X	X		2 6th Ave. SE								6			Y		X				Y	Y		Class A foam use only, site not ranked.							
Stacy-Lent	Stacy		X		N	Y					X			X							X		30785 Forest Blvd., east side of fire station, Stacy								6			Y			X			Y			Class A foam use only, site not ranked.							
Staples	Staples	X			N	Y					X			X							X		Various lots, fields								2			Y	X					Y			Class A foam use only, site not ranked.							
Stewart	Stewart			X	N	Y				X					X			X			X		Prior & Martha St.; Hall & Winona Sts.	8 1	 3 	 	 	 	 	 	 2 	 	 							N N Y N N	X X X X	 	 	 X 	 	 			AFFF type National Foam Universal Gold.	Class B foams not used in training, site not ranked.							
Stewartville	Stewartville	X			N	N																	Not applicable	1 	 1 	 	 	 	 	 	 	 	 							N N 	X X 	 	 	 	 	 				Foam not used in training, site not ranked.							
Stillwater	Stillwater			X	Y	Y				X					X			X			X		Stillwater fire station, 216 N. 4th St.; Old public works, 215 N. 5th St.; and New public works 3325 Boutwell Rd		3						2			N	X					Y			Class B foam not used in training, site not ranked.							
Swanville	Swanville	X			N	Y					X			X							X		Various								2			Y	X					Y			Class A foam use only, site not ranked.							

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STATE_02821021

TABLE 2
ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES

Department	Location	Foam Use Frequency for Fire Response: 0-25% of Fires	25-50% Fires	75-100% Fires	CAFS Tank on Engine?	Foam Used in Training?	Foam Use Frequency in Training: Weekly	Monthly	Quarterly	Semi-Annually	Annually	Bi-Annually	Occasionally	Amount Foam Use in Training: Less than 5 gallons	5 gallons	5 to 10 gallons	More than 10 gallons	Spent Foam Destination: Storm Sewer	Sanitary Sewer	On-Site Septic	Ground	Other	Training Location	Types of Foam Used: Class B AFFF	Class B AR-AFFF	Class B Protein	Class B FP	Class B FFFP	Class B AR-FFP	Class A HiEx	Class A	Training Foam	Other	Foam Used in Training?	Annual Foam Usage: 10 Gallons or less	11-25 Gallons	26-100 Gallons	101-200 Gallons	More than 200 Gallons	Current Foam Use?	Historic Foam Use?	Site Note	SITE RANKING CRITERIA: Foam Type: 3M current or former use in training=8	Annual Class B Foam Usage in Training: 5 gal or less=2; 6 to 10 gal=4; >10 gal=6	Surface Water Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wetlands Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Karst Area: Active=5; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wellhead Protection Area: site in WPA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
																								(1) 3M brand foam	(2) Ansul Silv-ex	(3) Ansulite	(4) Other/ unspecified Ansul foam product	(5) Angus Forexpan S	(6) Angus Hi-Combat	(7) Other/unspecified Angus foam product	(8) National Foam product.	(9) Chemguard foam product	(10) HCT F-500 A-B	(11) Pyrocom Aqua Stiks	(12) Other or unspecified foam product																							
Taconite	Taconite	X			N	Y							X	X							X		Dawn dish soap used in training at various locations.							12			N						Y		Class A foam type Diamond; quantity not specified. Use Dawn dish soap in training.	Class A foam use only, site not ranked.						
Taylors Falls	Taylors Falls		X		N	Y					X					X					X		Behind fire hall, 637 First Street		7						7			N	X		X			Y			Class B foam not used in training, site not ranked.						
Thief River Falls	Thief River Falls	X			N	N																	Not applicable	1							2			N			X			Y	Y	No training with foam.	Foam not used in training, site not ranked.						
Thompson Twp	Esko		X		N	Y					X			X							X		Not specified								12			Y			X					Various types of Class A foam used.	Class A foam use only, site not ranked.						
Tofte	Tofte		X		Y	Y						X		X							X		Fire hall, 7240 Tofte Park Road								2			Y	X								Class A foam use only, site not ranked.						
Twin Lakes	Nay-Tah-Waush	X			N	Y					X			X							X		Various								12			Y	X							Foam type Firetrol.	Class A foam use only, site not ranked.						
Twin Valley	Twin Valley			X	N	Y							X	X							X		Haven't trained in a long time with foam, don't recall location.								2						X						Class A foam use only, site not ranked.						
Tyler	Tyler			X	N	Y			X					X				X			X		Corner of Bradley & Applebee		7						2											Spent foam to storm sewer (20%) and ground discharge (80%). Foam quantity not specified. Foam used for training not specified.	0	6	1	1	0	1	0	9
Underwood	Underwood		X		N	Y					X			X							X		Fire hall park lot (100 East St. S.)								2			Y		X							Class A foam use only, site not ranked.						
Upsala	Upsala		X		Y	Y				X				X				X			X		110 W. Elm Av.							12				Y	X							Foam type not specified.	6[3]	4	3	3	0	3	0	21
Vadnais Heights	Vadnais Heights			X	N	Y					X			X				X			X		3595 Arcade St. south park lot, fire station	1							2			N	X					Y	Y		Class B foam not used in training, site not ranked.						
Vergas	Vergas			X	N	Y							X	X							X		Various locations	3							7			Y	X		X			Y	Y		0	2	Multiple training locations, site not ranked.					
Vermillion Lake	Tower	X			N	Y							X	X							X		State Hwy 1, ~1/2 mile west of Junction with State Hwy 169, near Pike River; Junction Hwy 1 & Hwy 169; and St. Louis Cty Rd 26, just west of N. Ahlstrand Rd.								2			Y	X								Class A foam use only, site not ranked.						

2222.0065

STATE_02821022

TABLE 2
ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES

Department	Location	Foam Use Frequency for Fire Response: 0-25% of Fires	25-50% Fires	75-100% Fires	CAFS Tank on Engine?	Foam Used in Training?	Foam Use Frequency in Training: Weekly	Monthly	Quarterly	Semi-Annually	Annually	Bi-Annually	Occasionally	Amount Foam Use in Training: Less than 5 gallons	5 gallons	5 to 10 gallons	More than 10 gallons	Spent Foam Destination: Storm Sewer	Sanitary Sewer	On-Site Septic	Ground	Other	Training Location	Types of Foam Used: Class B AFFF	Class B AR-AFFF	Class B Protein	Class B FP	Class B FFFP	Class B AR-FFP	Class A-B HiEx	Class A	Training Foam	Other	Foam Used in Training?	Annual Foam Usage: 10 Gallons or less	11-25 Gallons	26-100 Gallons	101-200 Gallons	More than 200 Gallons	Current Foam Use?	Historic Foam Use?	Site Note	SITE RANKING CRITERIA: Foam Type: 3M current or former use in training=8	Annual Class B Foam Usage in Training: 5 gal or less=2; 6 to 10 gal=4; >10 gal=6	Surface Water Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wetlands Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Karst Area: Active=5; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wellhead Protection Area: site in WPA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
Verndale	Verndale	X			N	Y					X			X				X					Brown St. & 1st Av								2		Y		X				Y		Class A foam use only, site not ranked.							
Villard	Villard		X		N	N																	Not applicable							12			N	X							Foam type Royal Chemical.	Foam not used in training, site not ranked.							
Virgina	Virgina		X		Y	Y			X					X				X					Fire hall, 115 4th Av. N.	1									N	X					N	Y													
																									1								N	X					N	Y													
																															2		Y	X					Y		Class B foams not used in training, site not ranked.							
Waconia	Waconia			X	Y	Y					X					X							7550 Airport Rd; 8075 Paradise Ln; and 26 Maple St. S.	7									Y	X							Maple St. and Paradise Ln. training sites located in Wellhead Protection Area.	0	4	3	3	0	3	5	18
																										7							Y	X															
																															7		Y		X														
Waite Park	Waite Park	X			N	Y					X			X				X				X	19 13th Ave. N.; and 4th St. N. & 4th Ave. N.	9									N	X					Y	Y													
																															2		Y	X					Y	Y	Class B foam not used in training, site not ranked.							
Waldorf	Waldorf	X			N	Y		X						X				X				X	Main Street	12									Y	X					Y	Y	AFFF foam type Royal Chemical.	0	6	1	1	2	1	0	11
Wanda	Wanda	X			N	Y					X			X								X	Front of fire hall								2		Y	X							Class A foam use only, site not ranked.							
Warba-Feeley-Sago	Warba			X	N	N																	Not applicable								2		N	X					Y	Y	Class A foam use only, site not ranked.							
Warren	Warren	X			N	Y					X					X						X	221 W. Johnson		7								N	X					N	Y													
																															2		Y	X					Y		AFFF-AR type Angus Tridol.							
																																12	Y	X					Y		Class B foam not used in training, site not ranked.							
																										12							Y	X															
Waseca	Waseca		X		N	Y					X					X						X	Waseca Cty Fairground, area of grand stand.			12							Y	X								0	4	1	1	2	1	0	9

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TABLE 2
ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES

Department	Location	Foam Use Frequency for Fire Response: 0-25% of Fires	25-50% Fires	75-100% Fires	CAFS Tank on Engine?	Foam Used in Training?	Foam Use Frequency in Training: Weekly	Monthly	Quarterly	Semi-Annually	Annually	Bi-Annually	Occasionally	Amount Foam Use in Training: Less than 5 gallons	5 gallons	5 to 10 gallons	More than 10 gallons	Spent Foam Destination: Storm Sewer	Sanitary Sewer	On-Site Septic	Ground	Other	Training Location	Types of Foam Used: Class B AFFF	Class B AR-AFFF	Class B Protein	Class B FP	Class B FFFP	Class B AR-FFP	Class A-B HiEx	Class A	Training Foam	Other	Foam Used in Training?	Annual Foam Usage: 10 Gallons or less	11-25 Gallons	26-100 Gallons	101-200 Gallons	More than 200 Gallons	Current Foam Use?	Historic Foam Use?	Site Note	SITE RANKING CRITERIA: Foam Type: 3M current or former use in training=8	Annual Class B Foam Usage in Training: 5 gal or less=2; 6 to 10 gal=4; >10 gal=6	Surface Water Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wetlands Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Karst Area: Active=5; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wellhead Protection Area: site in WPA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
																							Various (last	1									N	X					Y											
																							training in farm		7								N	X					Y		Foam used in											
Watertown	Watertown		X		N	Y						X			X						X		yard, 11225 Cty. Rd. 20)								7		N			X			Y		training not specified.	Class B foams not used in training, site not ranked.							
Watkins	Watkins	X			N	N																	Not applicable								2		N		X				Y			Class A foam use only, site not ranked.							
																															2		Y	X						Y											
Wayzata	Wayzata			X	N	Y					X			X									Various houses									1	N							Y			Class B foam not used in training, site not ranked.							
Welcome	Welcome		X		N	Y					X				X								NE corner of Dugan St. S. and Mill St.			8							Y	X					Y			0	2	1	3	0	3	0	9
																									4								N		X				Y										
West Metro Fire																															4		N		X				Y										
District	New Hope	X			N	Y					X					X		X					4251 Xylon Av. N.									12	Y		X				Y			Class B foam not used in training, site not ranked.							
Wheaton	Wheaton	X			Y	Y				X				X							X		City dump, 100 7th Av. N.								2										Foam quantity not specified.	Class A foam use only, site not ranked.							
																								7										N																
White Bear Lake	White Bear Lake			X	Y	Y			X					X				X					9th St. & White Bear Pkwy.								7		Y	X					Y			Class B foam not used in training, site not ranked.							
Williams	Williams		X		N	Y			X					X				X					212 Main St.								2		Y		X				Y			Class A foam use only, site not ranked.							
																							Fire hall, 515 SW	1									N	X					N	Y											
Willmar	Willmar	X			N	Y					X			X				X					2nd St.		1								N	X					N	Y		Class B foams not used in training, site not ranked.							
Wilson	Winona		X		N	Y				X				X							X		Not specified								2		Y	X					Y			Class A foam use only, site not ranked.							
																							Various-- Central		3								Y			X			Y											
																							Fire Sta., 451 E.																												
																							3rd; and Technical																												
																							College, 1250																				3rd Street training							
Winona	Winona	X			N	Y					X			X				X				X	Homer Rd., Winona								2		N	X					Y		site in Wellhead Protection Area.	0	2	3	3	5	3	5	21
																							Baker Av & 2nd St.								6		N	X																
Winsted	Winsted		X		N	Y						X		X							X		S.								11		Y	X								0	2	3	3	0	1	0	9
																							233 N. Manninen																												
																							Av.; 235 W.																												
Wolf Lake	Wolf Lake		X		N	Y					X			X							X		Johnson St.								2		Y		X				Y	Y		Class A foam use only, site not ranked.							
Wrenshall	Wrenshall		X		N	Y					X			X							X		Not specified								9		Y	X								Class A foam use only, site not ranked.							
Wyoming	Wyoming			X	N	N																	Not applicable								2		N			X			Y			Class A foam use only, site not ranked.							
																									7											X														
Zimmerman-Livonia	Zimmerman	X			N	N																	Not applicable								9				X						AR-AFF foam type Angus Alcoseal 3%.	Foam not used in training, site not ranked.							
																									1								N	X					N	Y	Only trained one							
																																	10	N	X					Y		time with foam.							
																							Front of fire hall,								2		N		X				Y		Foam type Solid							
Zumbro Falls	Zumbro Falls			X	N	Y							X	X				X					one time training.									12	N	X					Y		Class A Stik.	One time training with foam, site not ranked.							
Zumbrota	Zumbrota			X	Y	Y			X					X							X		Behind fire station, 1500 Jefferson Dr.								2		Y			X			Y			Class A foam use only, site not ranked.							

Notes:
(a) Foam type or training use not specified, 3M foam use for training assumed.

2222.0067

STATE_02821024

TABLE 2

ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES

Department	Location	Foam Use Frequency for Fire Response	CAFS Tank on Engine?	Foam Used in Training?	Foam Use Frequency in Training	Amount Foam Use in Training	Spent Foam Destination	Training Location	Types of Foam Used	Foam Used in Training?	Annual Foam Usage	Current Foam Use?	Historic Foam Use?	Site Note	SITE RANKING CRITERIA						OVERALL SITE RANKING
															Foam Type: 3M current or former use in training=8	Annual Class B Foam Usage in Training: 5 gal or less=2; 6 to 10 gal=4; >10 gal=6	Surface Water Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wetlands Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Karst Area: Active=5; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wellhead Protection Area: site in WPA=5; within 1/4 mile=4; within 1 mile=2; No=0	DELTA
		0-25% of Fires			Weekly	Less than 5 gallons	Storm Sewer	Class B AFFF	(1) 3M brand foam	10 Gallons or less	11-25 Gallons											
		25-50% Fires			Monthly	5 gallons	Sanitary Sewer	Class B AR-AFFF	(2) Arsul Silv-ex	26-100 Gallons	101-200 Gallons											
		75-100% Fires			Quarterly	5 to 10 gallons	On-Site Septic	Class B Protein	(3) Arsulite	More than 200 Gallons												
					Semi-Annually	More than 10 gallons	Ground	Class B FP	(4) Other/unspecified Arsul foam product													
					Annually		Other	Class B FFFP	(5) Angus Forexpan S													
					Bi-Annually			Class B AR-FFP	(6) Angus Hi-Combat													
					Occasionally			Class A-B HiEx	(7) Other/unspecified Angus foam product													
								Class A	(8) National Foam product													
								Training Foam	(9) Chemguard foam product													
								Other	(10) HCTF-500 A-B													
									(11) Pyrocom Aqua Stiks													
									(12) Other or unspecified foam product													

TABLE 3
MUNICIPAL FIRE DEPARTMENTS WITH NO FIREFIGHTING FOAM USE

The following municipal fire departments in Minnesota indicated that they do not use firefighting foams:

Abercrombie
Askov
Bear Creek
Beaver Creek
Blomkest
Brownsville
Canton
Culver
Delavan
Dexter
Elrosa
Emily
Eveleth
Felton
Goodridge Area, Goodridge
Haangard, Gonvick, MN
Hayward
Hollandale
Hovland
Itasca
Kabetogama, Ray, MN
Kelsey
LaSalle
Loman
Louisburg
Lowry
Mahnomen
McKinley
Millerville, Brandon, MN
Minnesota City
Minnetonka
Mission Twp, Merrifield
New Munich
Perley-Lee Twp, Perley
Sedan, Glenwood, MN
Skyline, Mankato, MN
St. Leo
Sunburg
Taunton
Tintah
Tower
Tracy
Ulen
Viking
Walters
Wanamingo

DELTA

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STATE_02821026

TABLE 4

MUNICIPAL FIRE DEPARTMENTS THAT TRAIN[b] WITH CLASS B FOAMS

Department	Location	Foam Use Frequency in Training: Weekly	Monthly	Quarterly	Semi-Annually	Annually	Bi-Annually	Occasionally	Amount Foam Use in Training: Less than 5 gallons	5 gallons	6 to 10 gallons	More than 10 gallons	Spent Foam Destination: Storm Sewer	Sanitary Sewer	On-Site Septic	Ground	Other	Training Location	Types of Foam: Class B AFFF	Class B AR-AFFF	Class B Protein	Class B FP	Class B FFFP	Class B AR-FFP	Class A-B HEx	Class A	Training Foam	Other	Foam Used in Training?	Annual Foam Usage: 10 Gallons or less	11-25 Gallons	26-100 Gallons	101-200 Gallons	More than 200 Gallons	Current Use?	Historic Use?	Site Note	SITE RANKING CRITERIA: Foam Type: 3M current or former use in training=8	Annual Class B Foam Usage in Training: 5 gal or less=2; 6 to 10 gal=4; >10 gal=6	Surface Water Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wetlands Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Karst Area: Active=5; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wellhead Protection Area: site in WPA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
																			3									Y			X				Y		Frank Avenue located in or near a Well Protection Area.								
Albert Lea	Albert Lea					X				X							X	Frank Av., near dog pound								2			N			X			Y			0	2	1	1	2	3	4	13
																			7									Y	X					N	Y									
																		Fire Sta. #1, 15003 Heyes Rd; Apple Valley central maintenance facility, 6442 140th St. W.		1						6			Y	X		X			Y	Y									
Apple Valley	Apple Valley						X				X		X	X		X																						0	2	1	3	2	3	5	16
																		Appleton Public Works bldg.	3									Y			X			Y															
Appleton	Appleton				X				X							X		427 S. Munsterman St.								2			Y			X			Y			0	4	1	3	0	3	0	11
																			3									Y	N	X					Y		Training site in or							
																										2			Y	X					Y	Y	near a Special Well							
Babbitt	Babbitt					X			X								X	34 North Dr., Babbitt									4		Y	X					Y		Protection Area.	0	2	1	1	0	3	5	12
																													Y	X					Y									
																																						Bemidji Airport							
																																					training site in							
Bemidji	Bemidji					X					X						X	Bemidji Airport (Class B)								2			Y			X			Y		Wellhead Protection Area.	8	4	3	3	0	3	5	26
																				1									N	X							3M AR-AFFF not							
Benson	Benson					X			X								X	Not specified								2			Y		X						used in training.	0	2	Training site not specified, site not ranked.					
																				3									Y	X					Y		Phasing out use of							
Big Lake	Big Lake			X					X				X				X	Various								2			Y	X					Y		Silv-ex	0	6	Multiple training locations, site not ranked.					
																																					No foam use before							
																																					Fall 2007; new p							
																																					umper truck. Use F-							
Blackhoof	Barnum							X	X								X	3148 Cty. Rd. 5, Barnum									12		Y	X					Y	N	500 Wetting Agent.	0	2	1	1	0	3	0	7
																			12										Y	X							Foam types not							
Breckenridge	Breckenridge					X					X		X					1312 Minnesota Av.									12		Y	X							specified.	8[a]	4	1	1	0	1	0	15
																																					Foam type not							
Brooten	Brooten					X			X								X	Unspecified grass ands	12										Y			X			Y	Y	specified.	8[a]	2	Training site not mappable, site not ranked.					
																																					Foam type and							
Browns Valley	Browns Valley					X			X								X	Not specified											Y	X							quantity not	8[a]	2	Training site not specified, site not ranked.					
																																					specified.							
																		315 N. Main St. at Main &											Y	X					Y										
Buffalo Lake	Buffalo Lake						X		X				X					Church Sts.								6			Y	X					Y			8	2	1	1	0	1	0	13
																				4									Y			X			Y									
																										2			Y				X		Y		Training facility							
																																					jointly owned by							
																																					Burnsville, Apple							
																																					Valley, Eagan and							
Burnsville	Burnsville					X					X						X	Cliff Rd. & River Ridge Blvd.									4		Y				X			Y	Lakeville. AFFF-AR	0	4	3	3	5	3	5	23
																																					type Ansul ATC 3/6							
																																					Foam type and							
Buyck	Buyck					X			X								X	8035 Om-Buyck Rd.																			quantity not	8[a]	2	1	3	0	0	0	14
																									12			N	X							Foam types not							
Canby	Canby				X					X							X	Various									12		Y	X							specified.	0	4	Multiple training locations, site not ranked.					

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STATE_02821027

TABLE 4

MUNICIPAL FIRE DEPARTMENTS THAT TRAIN[b] WITH CLASS B FOAMS

Types of Foam

(1) 3M brand foam
(2) Ansul Silv-ex
(3) Ansulite
(4) Other/unspecified Ansul foam product
(5) Angus Forespan S
(6) Angus Hi-Combat
(7) Other/unspecified Angus foam product
(8) National Foam product
(9) Chemguard foam product
(10) FICTF-500 A-B
(11) Pyrocom Aqua Stiks
(12) Other or unspecified foam product

Department	Location	Foam Use Frequency in Training: Weekly	Monthly	Quarterly	Semi-Annually	Annually	Bi-Annually	Occasionally	Amount Foam Use in Training: Less than 5 gallons	5 gallons	6 to 10 gallons	More than 10 gallons	Spent Foam Destination: Storm Sewer	Sanitary Sewer	On-Site Septic	Ground	Other	Training Location	Class B AFFF	Class B AR-AFFF	Class B Protein	Class B FP	Class B FFFP	Class B AR-FFP	Class A-B HEx	Class A	Training Foam	Other	Foam Used in Training?	Annual Foam Usage: 10 Gallons or less	11-25 Gallons	26-100 Gallons	101-200 Gallons	More than 200 Gallons	Current Use?	Historic Use?	Site Note	SITE RANKING CRITERIA: Foam Type: 3M current or former use in training=8	Annual Class B Foam Usage in Training: 5 gal or less=2; 6 to 10 gal=4; >10 gal=6	Surface Water Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wetlands Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Karst Area: Active=5; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wellhead Protection Area: site in WPA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
																			1									Y		X					Y									
																			12									Y		X					Y									
Cass Lake	Cass Lake					X					X						X	Railroad ROW by 8 Railroad St NW, Cass Lake		3									N		X					Y		AFFF type US Foam First Strike	0	4	1	1	0	3	0	9
																			1									Y		X					Y									
Centennial	Lino Lakes							X	X							X		Various								12		N		X				Y		Class A foam type Pioneer, 3M AFFF not used in training	0	2	Multiple training locations, site not ranked.					
																			1									Y		X														
Claremont	Claremont					X				X			X					Front of fire hall on Front St.								4			X							Built in foam tank, but not compressed.	8	2	1	0	4	3	0	18
																			9												X													
Cohasset	Cohasset				X					X						X		Not specified.								2					X							0	4	Training site not specified, site not ranked.					
																			3									Y		X					Y									
Comfrey	Comfrey						X			X						X		Various								2		Y		X					Y			0	2	Multiple training locations, site not ranked.					
																			1									Y		X													
College Grove	College Grove							X	X							X		Fire Station 2, 8641 80th St. S.								7		N			X							8	2	3	3	5	1	5	27
																			12									Y		X					Y									
Crosslake	Crosslake					X			X					X				Joint City/County maintenance facility, County Road 3 South																			Foam type not specified.	8[a]	2	Training site not mappable, site not ranked.					
																			3									Y		X					Y		Class A foam type								
Darfur	Butterfield						X		X							X		Various								12		Y		X					Y		1st Defense.	0	2	Multiple training locations, site not ranked.					
																			1									Y		X													
Dover	Dover					X			X							X		Various, most recent at farm field on Cty. Rd. 2, ~1 mile east of Cty. Rd. 10								7		Y		X							AFFF is mostly used at William Bros. Pipeline facility about 6 miles away.	8	2	Multiple training locations, site not ranked.					
																			12									Y			X													
Dunnell-Lake Fremont	Dunnell					X			X							X		Old ball diamond, N. Seeley Av., Dunnell								2		Y		X						Class B AFFF noted as Silv-ex	0	2	1	1	0	1	0	5
East Grand Forks	East Grand Forks						X			X						X		Northland Comm College, 2022 Central Av NE								9		Y		X																Training at community college, site not ranked.					
Edina	Edina							X	X							X		Various									10	Y				X			Y			0	2	Multiple training locations, site not ranked.					
Ellsburg	Cotton					X			X							X		Fire Hall, 1763 Melrude Rd., Melrude, MN	12									Y		X							AFFF type U.S. Foam; quantity and use in training not specified.	0	2	3	3	0	1	0	9
Evansville	Evansville					X				X			X			X		East end of town, (new) Council Circle.		8									Y		X							AFFF-AR type National Foam Universal Gold 1%-3%, foam quantity not specified.	0	2	1	3	0	1	4	11
Fairmont	Fairmont			X					X							X		City shop park lot, 417 E. Margaret St.										Y		X							Foam type and quantity not specified.	8[a]	6	3	3	0	1	0	21
Fountain	Fountain						X		X							X		Not specified									10	Y		X								0	2	Training site not specified, site not ranked.					
																		300 71st Av., Fridley (North		1									Y		X					N	Y	Discharge to retention pond.								
Fridley	Fridley							X	X								X	Metro Fire Training Center)								2		N							Y			8	2	3	3	4	3	5	28
Glenville	Glenville					X			X							X		High school football field		4									Y		X								0	2	3	1	4	3	0	13
																				7									Y			X												
Golden Valley	Golden Valley				X						X		X				X	7800 Golden Valley Road								7		Y		X		X					0	6	3	1	4	3	5	22
Hamburg	Hamburg					X			X								X	181 Broadway							7			Y		X							0	2	3	3	2	3	0	13

2222.0071

STATE_02821028

TABLE 4

MUNICIPAL FIRE DEPARTMENTS THAT TRAIN[b] WITH CLASS B FOAMS

Department	Location	Foam Use Frequency in Training: Weekly	Monthly	Quarterly	Semi-Annually	Annually	Bi-Annually	Occasionally	Amount Foam Use in Training: Less than 5 gallons	5 gallons	6 to 10 gallons	More than 10 gallons	Spent Foam Destination: Storm Sewer	Sanitary Sewer	On-Site Septic	Ground	Other	Training Location	Types of Foam: Class B AFFF	Class B AR-AFFF	Class B Protein	Class B FP	Class B FFFP	Class B AR-FFP	Class A-B HEx	Class A	Training Foam	Other	Foam Used in Training?	Annual Foam Usage: 10 Gallons or less	11-25 Gallons	26-100 Gallons	101-200 Gallons	More than 200 Gallons	Current Use?	Historic Use?	Site Note	SITE RANKING CRITERIA: Foam Type: 3M current or former use in training=8	Annual Class B Foam Usage in Training: 5 gal or less=2; 6 to 10 gal=4; >10 gal=6	Surface Water Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wetlands Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Karst Area: Active=5; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wellhead Protection Area: site in WPA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
Hardwick	Hardwick					X			X							X		Ball field parking lot, Hardwick																			Foam type and quantity not specified.	8[a]	2	1	1	0	0	0	12
Harmony	Harmony					X				X			X			X		Fire hall, Main Av. S. and Brush dump, east of intersection of 139 & Gordon Rd. (not mappable).		3						2																		

TABLE 4

MUNICIPAL FIRE DEPARTMENTS THAT TRAIN[b] WITH CLASS B FOAMS

Department	Location	Foam Use Frequency in Training: Weekly	Monthly	Quarterly	Semi-Annually	Annually	Bi-Annually	Occasionally	Amount Foam Use in Training: Less than 5 gallons	5 gallons	6 to 10 gallons	More than 10 gallons	Spent Foam Destination: Storm Sewer	Sanitary Sewer	On-Site Septic	Ground	Other	Training Location	Types of Foam: (1) 3M brand foam; (2) Ansul Silv-ex; (3) Ansulite; (4) Other/unspecified Ansul foam product; (5) Angus Forexpan S; (6) Angus Hi-Combat; (7) Other/unspecified Angus foam product; (8) National Foam product; (9) Chemguard foam product; (10) HCT F-500 A-B; (11) Pyrocom Aqua Stiks; (12) Other or unspecified foam product: Class B AFFF	Class B AR-AFFF	Class B Protein	Class B FP	Class B FFFP	Class B AR-FFP	Class A-B HiEx	Class A	Training Foam	Other	Foam Used in Training?	Annual Foam Usage: 10 Gallons or less	11-25 Gallons	26-100 Gallons	101-200 Gallons	More than 200 Gallons	Current Use?	Historic Use?	Site Note	SITE RANKING CRITERIA: Foam Type: 3M current or former use in training=8	Annual Class B Foam Usage in Training: 5 gal or less=2; 6 to 10 gal=4; >10 gal=6	Surface Water Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wetlands Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Karst Area: Active=5; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wellhead Protection Area: site in WPA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
Mahtomedi	Mahtomedi	X							X							X		Live fire training burns.	1							7		Y		X		X													
Mankato	Mankato					X					X		X					Fire Sta. #1, 300 Madison Av.	-									Y		X					N	Y											
																			7									Y		X					Y		AFFF-AR type Angus AlcoSeal	8	4	1	0	5	1	0	19
Marshall	Marshall			X					X							X		Marshall Mem. Center, Cty Rd 33 (1001 W. Erie Rd.)	1							2		N										Training foam type Trainol. Use of 3M foam in training no specified.	8[a]	6	3	3	0	1	0	21
																							12		Y		X					Y										
Maynard	Maynard						X		X			X						Meble St. & Sherman								2		Y									Foam quantities not specified.	0	2	1	1	0	3	0	7
																							9		Y							N	Y									
Mazeppa	Mazeppa					X			X							X		Junk yard (various)	11							11		Y							Y			0	2	Multiple training locations, site not ranked.						
Menagha	Menagha					X			X							X		Not specified.										Y		X					N	Y	Foam type and quantity not specified.	Foam type and quantity not specified, training site not specified, site not ranked.						
Minneapolis	Minneapolis					X			X							X		25 37th Ave. NE	-									Y		X					N	Y									
																			4								4		N		X					Y			8	2	3	1	4	1	0	19
Montevideo	Montevideo							X		X						X		Fire station, 103 Canton Av.	1									Y		X					Y	Y									
																			1									Y		X					Y	Y									
																			5									N		X					Y	N		8	2	3	3	0	1	0	17
Myrtle	Myrtle					X			X							X		Myrtle ballfield																			Foam type and quantity not specified.	8[a]	2	1	0	5	1	0	17

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STATE_02821030

TABLE 4

MUNICIPAL FIRE DEPARTMENTS THAT TRAIN[b] WITH CLASS B FOAMS

Department	Location	Foam Use Frequency in Training: Weekly	Monthly	Quarterly	Semi-Annually	Annually	Bi-Annually	Occasionally	Amount Foam Use in Training: Less than 5 gallons	5 gallons	6 to 10 gallons	More than 10 gallons	Spent Foam Destination: Storm Sewer	Sanitary Sewer	On-Site Septic	Ground	Other	Training Location	Types of Foam (1) 3M brand foam	(2) Ansul Silv-ex	(3) Ansulite	(4) Other/unspecified Ansul foam product	(5) Angus Forespan S	(6) Angus Hi-Combat	(7) Other/unspecified Angus foam product	(8) National Foam product	(9) Chemguard foam product	(10) HCT F-500 A-B	(11) Pyrocom Aqua Stiks	(12) Other or unspecified foam product	Class B AFFF	Class B AR-AFFF	Class B Protein	Class B FP	Class B FFFP	Class B AR-FFP	Class A-B Hi-Ex	Class A	Training Foam	Other	Foam Used in Training?	Annual Foam Usage: 10 Gallons or less	11-25 Gallons	26-100 Gallons	101-200 Gallons	More than 200 Gallons	Current Use?	Historic Use?	Site Note	SITE RANKING CRITERIA: Foam Type: 3M current or former use in training=8	Annual Class B Foam Usage in Training: 5 gal or less=2; 6 to 10 gal=4; >10 gal=6	Surface Water Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wetlands Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Karst Area: Active=5; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wellhead Protection Area: site in WPA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
Nerstrand	Nerstrand						X			x						x		Various houses																		1	Y	N	X					Y	N		8	2	Multiple training locations, site not ranked.					
New Richland	New Richland						X		X							X		Grassy lot on east side of fire hall, 203 Broadway Av. N.; closest cross street 1st St. NE																		2			9	Y	X					Y	Y		Type of Chemguard foam not specified.	0	2	3	1	4	3	0	13
New York Mills	New York Mills							X	X				X			X		Not specified													12						2			N		X			Y		Class B AFFF specified as Silv-ex.	0	2	Training site not specified, site not ranked.					
Newfolden	Newfolden					X			X				X			X		Fire hall																		2			N		X					Other foam type Oxford 227 Wetting Agent; use in training not specified.	0	2	3	1	0	1	0	7
North St. Paul	North St. Paul				X						X						X	No. St. Paul Public Works, 2303 1st St. N.																		1			12	Y	X					Y	Y	Training site located in or adjacent to a Well Protection Area.	8	6	3	1	2	3	5	28
Northland	Canyon					X			X							X		Fire hall, 7271 Hwy. 53, Canyon																		1			Y		X					Y	Y	Foam type and quantity not specified.	8[a]	2	1	1	0	0	0	12
Northrop	Northrop						X		X							X		Behind fire hall, 2' 1 N. Bridgemen																		11			Y		X					Y	Y	One stick used annually.	0	2	0	1	0	3	5	11
Olivia	Olivia				X				X							X		Various																		3			Y		X					Y	Y		0	4	Multiple training locations, site not ranked.					
Paynesville	Paynesville						X		X							X		City airport																		9					X							AFFF AR type Chemguard 3%.	0	2	3	3	0	3	5	16
Pelican Rapids	Pelican Rapids						X		X				X			X		2nd Av. NW & 4th St.																		2			Y		X					Y		AFFF type US Foam First Strike.	0	2	3	3	0	3	5	16
Pierz	Pierz						X		X							X		Intersection of 25 and 27, Pierz																		2			N			X				Y	Y	Quantity 3M foam not specified.	8	2	3	3	0	1	0	17
Pine River	Pine River							X			X					X		Fair grounds and school grounds on 1st Street, Pine River																		2			Y		X					Y	Y	Training sites in and adjacent to Wellhead Protection Area.	0	2	3	3	0	1	0	14
Porter	Porter				X				X				X					Fire hall, 301 Lone Tree Street																		2			Y		X					Y			0	4	3	1	0	1	0	9
Preston	Preston						X			X						X		Fillmore County Fairgrounds Fillmore St. & Cty. Hwy. 12 Preston																		2			N		X					N	Y	Class A foam type Clarey's First Strike	8	2	3	3	5	3	4	28
Proctor	Proctor						X		X							X		Not specified																		2			N		X					AFFF type Ansul Jet-X. Foam used in training not specified.	0	2	Training site not specified, site not ranked.					
Ramsey	Ramsey							X	X							X		Not specified																		6			N		X			Y		AFFF-AR type Angus Tridol, use "minimal". Foam used in training not specified.	0	2	Training site not specified, site not ranked.					
																																			1											Foam quantities not								

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TABLE 4

MUNICIPAL FIRE DEPARTMENTS THAT TRAIN[b] WITH CLASS B FOAMS

Department	Location	Foam Use Frequency in Training: Weekly	Monthly	Quarterly	Semi-Annually	Annually	Bi-Annually	Occasionally	Amount Foam Use in Training: Less than 5 gallons	5 gallons	6 to 10 gallons	More than 10 gallons	Spent Foam Destination: Storm Sewer	Sanitary Sewer	On-Site Septic	Ground	Other	Training Location	Types of Foam: (1) 3M brand foam; (2) Ansul Silv-ex; (3) Ansulite; (4) Other/unspecified Ansul foam product; (5) Angus Forespan S; (6) Angus Hi-Combat; (7) Other/unspecified Angus foam product; (8) National Foam product; (9) Chemguard foam product; (10) HCT F-500 A-B; (11) Pyrocom Aqua Stiks; (12) Other or unspecified foam product: Class B AFFF	Class B AR-AFFF	Class B Protein	Class B FP	Class B FFFP	Class B AR-FFP	Class A-B HiEx	Class A	Training Foam	Other	Foam Used in Training?	Annual Foam Usage: 10 Gallons or less	11-25 Gallons	26-100 Gallons	101-200 Gallons	More than 200 Gallons	Current Use?	Historic Use?	Site Note	SITE RANKING CRITERIA: Foam Type: 3M current or former use in training=8	Annual Class B Foam Usage in Training: 5 gal or less=2; 6 to 10 gal=4; >10 gal=6	Surface Water Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wetlands Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Karst Area: Active=5; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wellhead Protection Area: site in WPA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
Randolph-Hampton	Randolph					X			X							X		Various live burns.								2		Y	X					N	Y	specified, foam used in training not specified.	8[a]	2	Multiple training locations, site not ranked.						
Robbinsdale	Robbinsdale						X			X			X					Not specified.		1						2		Y	X					N	Y		8	2								
																									8		Y	X					Y					Training site not specified, site not ranked.						
Rochester	Rochester					X				X						X		2021 41st St. NW								1		Y	X								8	2	1	1	5	3	5	25
																										10	Y			X													
Sartell-LeSauk	Sartell					X			X							X		Open area in city		7								N								AFFF-AR type Angus Alco Seal 3%-6%, amount used "not much"; Class AB Hi-Ex Angus Foam L quic.	0	2	Training site not mappable, site not ranked.						
Silver Lake	Silver Lake					X			X							X		Public Works storage area, 305 E. Main St.	7									Y	X					Y	N	Foam type Angus Tridex	0	2	3	3	0	3	0	11
St. Clair	St. Clair				X						X		X					City of St. Clair										Y								Foam type and quantity not specified	8[a]	6	3	1	2	3	0	23
																				9								Y		X													
St. Cloud	St. Cloud					X						X				X		Open field near Sta. 2, 730 41st Av N., and Sta. 4, 1550 45th Av SE								9		Y			X			Y	Y	Use ~20 gal foam and ~10 gal training foam in training. 41st Av training site in or adjacent to Wellhead Protection Area	0	6	3	3	0	1	5	18
St. Francis	St. Francis					X			X							X		City parking lot		7						7		Y	X		X			Y	Y		0	2	Training site not mappable, site not ranked.						
																												Y		X				N	Y								
																				1								Y		X				N	Y	Train ~every 18							
St. Paul	St. Paul					X					X					X		1683 Energy Park Dr., St. Paul						12		1		Y	X					Y	Y	months. Class A/B foam type Kiddo H							
																											N	X					Y		Ex.	8	4	1	1	5	3	0	22
St. Paul Park	St. Paul Park					X					X					X		Marathon Refinery train grounds 100 3rd Av., St. Paul Park									3	Y	X					Y	Y	Training at Marathon Petroleum Refinery.	Training at off-site facility, site not ranked.							

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STATE_02821032

TABLE 4

MUNICIPAL FIRE DEPARTMENTS THAT TRAIN[b] WITH CLASS B FOAMS

Department	Location	Foam Use Frequency in Training: Weekly	Monthly	Quarterly	Semi-Annually	Annually	Bi-Annually	Occasionally	Amount Foam Use in Training: Less than 5 gallons	5 gallons	6 to 10 gallons	More than 10 gallons	Spent Foam Destination: Storm Sewer	Sanitary Sewer	On-Site Septic	Ground	Other	Training Location	Types of Foam: Class B AFFF	Class B AR-AFFF	Class B Protein	Class B FP	Class B FFFP	Class B AR-FFP	Class A-B Hlex	Class A	Training Foam	Other	Foam Used in Training?	Annual Foam Usage: 10 Gallons or less	11-25 Gallons	26-100 Gallons	101-200 Gallons	More than 200 Gallons	Current Use?	Historic Use?	Site Note	SITE RANKING CRITERIA: Foam Type: 3M current or former use in training=8	Annual Class B Foam Usage in Training: 5 gal or less=2; 6 to 10 gal=4; >10 gal=6	Surface Water Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wetlands Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Karst Area: Active=5; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wellhead Protection Area: site in WPA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
Tyler	Tyler			X					X				X			X		Corner of Bradley & Appleb ee			7					2			Y	X							Spent foam to storm sewer (20%) and ground discharge (80%). Foam quantity not specified. Foam used for training not specified.	0	6	1	1	0	1	0	9
Upsala	Upsala				X				X				X					110 W. Elm Av., Upsala								12			Y	X							Foam type not specified.	8[a]	4	3	3	0	3	0	21
Vergas	Vergas							X	X							X		Various locations	3										Y	X			X		Y	Y									
Waconia	Waconia					X					X							7550 Airport Rd; 8075 Paradise Ln. and 26 Maple St. S.	1	7						7			Y	X			X				Maple St. and Paradise Ln. training sites located in Wellhead Protection Area.	0	4	3	3	0	3	5	18
Waldorf	Waldorf		X						X				X			X		Main Street	12										Y	X					Y	Y	AFFF foam type Royal Chemical.	0	6	1	1	2	1	0	11
Waseca	Waseca					X					X					X		Waseca Cty Fairground, area of grand stanc			12					12			Y	X								0	4	1	1	2	1	0	9
Welcome	Welcome					X				X								NE corner of Dugan St. S. and Mill St.			8								Y	X					Y			0	2	1	3	0	3	0	9
Winona	Winona					X			X				X			X		Various-- Central Fire Sta., 451 E. 3rd; and Technical College, 1250 Homer Rd., Winona		3						2			N	X			X		Y		3rd Street training site in Wellhead Protection Area.	0	2	3	3	5	3	5	21
Winstod	Winstod						X		X							X		Baker Av & 2nd St. S.								6			N	X								0	2	3	3	0	1	0	9
																										11			Y	X													

Notes:
(a) Foam type or training use not specified, 3M foam use for training assumed.
(b) Municipal departments that train, or potentially train, with Class B firefighting foams.

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TABLE 5

QUESTIONNAIRE RESPONSES FROM AIRPORT AND REFINERY FIRE DEPARTMENTS AND TRAINING SCHOOLS

Entity	Contact Person	Location	Foam Use Frequency for Fire Response: 0-25% of Fires	26-50% Fires	75-100% Fires	Foam Used in Training?	Foam Use Frequency in Training: Weekly	Monthly	Quarterly	Semi-Annually	Annually	Bi-Annually	Occasionally	Other	Amount Foam Use in Training: Less than 5 gallons	5 gallons	5 to 10 gallons	10 to 25 gallons	25 to 50 gallons	More than 50 gallons	Spent Foam Destination: Storm Sewer	Sanitary Sewer	On-Site Septic	Ground	Other	Training Location	Foam Use by Other Departments: Other Departments Utilize Facility?	Do Other Departments Bring	Annual Discharge by Other Departments	Types of Foam: Class B AFFF	Class B AR-AFFF	Class B Protein	Class B FP	Class B FFFP	Class B AR-FFP	Class A-B HEx	Class A	Training Foam	Other	Annual Foam Usage: 10 Gallons or less	11-25 Gallons	26-100 Gallons	100-200 Gallons	More than 200 Gallons	Current Use?	Historic Use?	Notes	Site Ranking Criteria: Foam Type: 3M current or former use in training=8	Annual Class B Foam Usage in Training: 5 gal or less=2; 6 to 10 gal=4; >10 gal=6	Surface Water Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wetlands Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Karst Area: Active=5; Transitional=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wellhead Protection Area: site in WPA=5; within 1/4 mile=4; within 1 mile=2; No=0	Site Ranking
Alexandria Technical College	Scott Schaefer, Fire Training Coordinator	1601 Jefferson St. Alexandria				Y						X			X									X		Various locations.	N																		Foam provided by various fire departments for training.	Foam training at various locations, foam provided by other fire departments. Site not ranked.							
Hennepin Technical College	Todd Seitz, Fire Training Coordinator	1820 Xenium Ln. N. Plymouth				Y					X				X									X		Hennepin Technical College, 13100 College View Dr., Eden Prairie	N										7			X						Class A foam use only, site not ranked.								
Itasca Community College	Marty Christensen, Instructor	1851 E. Hwy. 169 Grand Rapids				N																		X		No on-site training with foam.																		Foam not used in training, site not ranked.								
Lake Superior College	David Sarazin, Academic Supervisor	1501 Hwy 23 Duluth				Y					X				X									X		On-site	Y	N	NA	1							2			X					N	Y	Training foam type Kidde Trainol. Other departments train with Trainol	8	2	3	3	5	1	0	17
																														1							12							Y								
																															1													N	Y								
																																1													N	Y								
																																													N	Y								
Mesabi Range College	Steve Flaherty, Fire Program Manager	1001 Chestnut St. Virginia				Y			X								X							X		Various fire departments and on-site.	N										2				X				Y	Y								
Minnesota West Comm & Tech College	Daryl Bartholomaus, Training Coordinator	607 W. Main St., #100 Marshall				Y			X										X						X	Various fire departments: Granite Falls, Luverne, Jackson, Lake Wilson, and Marit Center in Marshall	NA			1							2			X					Y	Y	Training foam type unknown	Multiple training locations, site not ranked.							
																														3										X				Y	Y								
																															3										X				Y	Y								
																																					2				X			Y	Y								
																																					12				X			Y	Y								
Northland College	Rick Besser, Fire & EMS Coordinator	101 Hwy 1 East Thief River Falls				Y						X				X								X		Various fire departments	NA										12									Foam training done at off-site locations using other departments' foam.	Class A foam use only, multiple training locations, site not ranked.							
Pine Technical College	Michael Anderson, Fire Program Manager	900 4th St. SE Pine City				Y							X		X									X		Various house burns, training as requested.	N										12									Foam supplied by other fire departments.	Class A foam use only, multiple training locations; site not ranked.							
																														13										X				Y								
																															13										X				Y								
South Central College	Tim Zehnder, Fire & Rescue Program Manager	1920 Lee Blvd North Mankato				Y		X								X					X			X		On-site and at various fire departments	Y	Y	5-25 gal								13				X				Y		Types of foam noted as "all".	3[a]	6	1	1	2	1	0	19
																																					2				X			Y								
Ridgewater College	Michael Roe, Fire Program Manager	2101 NW 7th Av Willmar				Y			Y												Y					Off-site at various fire departments: Litchfield, Ortonville, Pinsburg, Morris	N										2			X					Y	Y		Class A foam use only, multiple training locations, site not ranked.							
Riverland Community College	Brian Staska, Training Coordinator	1900 8th Av NW Austin				Y								X	X									Y		Have not trained in many years, recall one training event in Preston, MN.	N										12			X						Foam brands not specified.	Class A and training foam use only, multiple training locations; site not ranked.							
																															1										X				Y								
																															4													X	Y								
Flint Hills Resources, Pine Bend Refinery Fire Dept.	Pete Herpst, Fire Chief	Rosemount	X			Y								X			X								X	SW corner of refinery site, 1255 Clayton Blvd.	Y	N						12						X					N	Y	3M Foams (FC 600F, FC 602, ATC 3x3, FC 603) no longer used for training. Ansul Thunderstorm FC600A used for training. Other departments train on site	8	6	1	1	4	3	0	23
																															1													X	N								
Marathon Petroleum Refinery	Steve Crisp, Fire Chief	South St. Paul	X			Y					X									X			X	X		Refinery fire training ground	Y	N						4										X	Y	Switched from 3M to Ansul Thunderstorm foam in ~2000. Use ~250 gallon foam for training; non-training foam use varies. Site located in Special Well Construction Area.	8	6	3	3	5	3	2	30
Former Wrenshall Refinery	None	Highway 1, Wrenshall																								Per Wrenshall Fire Chief, historic training with foam on-site																					3[b]	6[c]	3	3	5	3	2	25[c]

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STATE_02821034

TABLE 5
QUESTIONNAIRE RESPONSES FROM AIRPORT AND REFINERY FIRE DEPARTMENTS AND TRAINING SCHOOLS

| Entity | Contact Person | Location | Foam Use Frequency for Fire Response | | | Foam Used in Training? | Foam Use Frequency in Training | | | | | | | | Amount Foam Use in Training | | | | | | Spent Foam Destination | | | | | Training Location | Foam Use by Other Departments | | | Types of Foam | | | | | | | | | | | | | | Annual Foam Usage | | | | | Current Use? | Historic Use? | Notes | Site Ranking Criteria | | | | | | | Site Ranking |
|---|---|---

TABLE 6
TRAINING SITES WITH 3M FOAM USE

Department	Training Location	SITE RANKING CRITERIA							OVERALL SITE RANKING
		Foam Type: 3M current or former use in training=8	Annual Class B Foam Usage in Training: 5 gal or less=2; 6 to 10 gal=4; >10 gal=6	Surface Water Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wetlands Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Karst Area: Active=5; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wellhead Protection Area: site in WPA=5; within 1/4 mile=4; within 1 mile=2; No=0	
Marathon Refinery	Refinery fire training grounds, St. Paul Park	8	6 (250 gals)	3	3	5	3	2	30
Flint Hills Pine Bend Refinery	Refinery fire training grounds, Rosemount	8	6 (300 gals)	1	1	4	3	0	23
MN Air National Guard 148th	Duluth International Airport[b]	8	6 (No foam used in training; up to 100 gals for response)	3	3	0	3	0	23[b]
South Central College	1920 Lee Blvd., North Mankato	8[a]	6 (up to 60 gals)	1	1	2	1	0	19
Metropolitan Airports Commission at Minneapolis/St. Paul International Airport	MSP	8	6 (up to 40 gals)	3	3	5	3	5	33
Former Wrenshall Refinery	Highway 1, Wrenshall	8[a]	6	3	3	0	3	2	25[c]
Hutchinson	205 3rd Avenue SE, Hutchinson	8	6 (up to 20 gals)	3	1	0	3	5	26
North St. Paul	North St. Paul Public Works building, 2303 1st Street N.	8	6 (up to 20 gals)	3	1	2	3	5	28
Fairmont	City shop park lot, 417 E. Margaret St., Fairmont	8[a]	6 (up to 20 gals)	3	3	0	1	0	21
Marshall	Marshall Merit Center, 1001 W. Erie Rd.	8[a]	6 (up to 20 gals)	3	3	0	1	0	21
St. Clair	City of St. Clair	8[a]	6 (up to 20 gals)	3	1	2	3	0	23
Bemidji	Bemidji Municipal Airport	8	4 (5 to 10 gals)	3	3	0	3	5	26
Linwood Twp	Behind fire station, 22870 Typo Creek Dr., Stacy	8	4 (5 to 10 gals)	3	3	0	3	0	21
Upsala	110 W. Elm Av., Upsala	8[a]	4 (up to 10 gals)	3	3	0	3	0	21
St. Paul	1683 Energy Park Dr., St. Paul	8	4 (5 to 10 gals)	1	1	5	3	0	22
Lismore	Barn fire, Birkett & 170th St., Lismore	8[a]	4 (up to 10 gals)	3	1	0	0	0	16
Breckenridge	1312 Minnesota Ave., Breckenridge	8[a]	4 (5 to 10 gals)	1	1		1	0	15
Mankato	Fire Sta. #1, 300 Madison Ave., Mankato	8	4 (5 to 10 gals)	1	0	5	1	0	19
Fridley	North Metro Fire Training Center, 300 71st Ave. Fridley	8	2 (5 gals or less)	1	3	4	3	5	28
Preston	Fillmore County Fairgrounds, Fillmore St. & Cty. Hwy. 12, Preston	8	2 (5 gals or less)	3	3	5	3	4	28
Cottage Grove	Fire Station 2, 8641 80th St. S., Cottage Grove	8	2 (5 gals or less)	3	3	5	1	5	27
Rochester	2021 41st St. NW, Rochester	8	2 (5 gals or less)	1	1	5	3	5	25
Loretto	259 Medina St. N., Loretto	8	2 (5 gals or less)	1	1	0	1	5	18
Lake Superior College	11501 Hwy. 23, Duluth	8	2 (5 gals or less)	3	3	0	1	0	17
Littlefork	Fire hall, McPherson & 3rd Av	8[a]	2 (5 gals or less)	3	1	0	3	0	17
Montevideo	Fire station, 103 Canton, Montevideo	8	2 (5 gals or less)	3	3	0	1	0	17
Pierz	Intersection of 25 and 27, Pierz	8	2 (5 gals or less)	3	3	0	1	0	17
Minneapolis	25 37th Ave. NE, Minneapolis	8	2 (5 gals or less)	3	1	4	1	0	19
Buyck	8035 Orr-Buyck Rd., Buyck	8[a]	2 (5 gals or less)	1	3	0	0	0	14

TABLE 6
TRAINING SITES WITH 3M FOAM USE

Department	Training Location	SITE RANKING CRITERIA							OVERALL SITE RANKING
		Foam Type: 3M current or former use in training=8	Annual Class B Foam Usage in Training: 5 gal or less=2; 6 to 10 gal=4; >10 gal=6	Surface Water Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wetlands Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Karst Area: Active=5; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	Wellhead Protection Area: site in WPA=5; within 1/4 mile=4; within 1 mile=2; No=0	
Claremont	Front of fire hall, Front St., Claremont	8	2 (5 gals or less)	1	0		3	0	14
Buffalo Lake	315 N. Main St., at Main & Church Sts., Buffalo Lake	8	2 (5 gals or less)	1	1	0	1	0	13
Hardwick	Ball field parking lot, Hardwick	8[(a)]	2 (5 gals or less)	1	1	0	0	0	12
Myrtle	Myrtle ball field, Myrtle	8[(a)]	2 (5 gals or less)	1	0	5	1	0	17
Northland	Fire hall, 7271 Hwy. 53, Canyon	8[(a)]	2 (5 gals or less)	1	1	0	0	0	12

Notes:
(a) Foam type or training use not specified, 3M foam use for training assumed.
(b) 3M foam not currently used in training, but currently used in fire response. Site ranked based on use of foam in fire response.
(c) Ranking assumes maximal use of 3M foam in training exercises.

DELTA

List of Appendices

Appendix A	Questionnaires to/from U.S. Manufacturers of Firefighting Foams
Appendix B	Questionnaires to Minnesota Users of Firefighting Foams
Appendix C	Questionnaires from Municipal Fire Departments
Appendix D	Questionnaires from Airport Fire Departments
Appendix E	Questionnaires from Firefighting Training Schools
Appendix F	Questionnaires from Oil Refineries and Camp Ripley
Appendix G	Individual Training Site Profiles

APPENDIX A

Questionnaires to/from U.S. Manufacturers of Firefighting Foams

- Questionnaire
- Cover Letter to Manufacturers
- List of Manufacturers
- 3M Response
- Dynax Corporation Response
- Williams Fire & Hazard Control Response

QUESTIONNAIRE
PFCs in Firefighting Foam

1. Are the PFCs used in your firefighting foam manufacturing process made using a telomerization process or an electrochemical fluorination (EFC) process?

_____

_____

_____

2. Do the PFCs used in the manufacture of your firefighting foams contain or degrade to perfluorooctane sulfate (PFOS), perfluorooctanic acid (PFOA), perfluorobutanoic acid (PFBA), or other derivative substances? If so, under what conditions?

_____

_____

_____

3. Are you currently developing or manufacturing firefighting foams that do not contain PFCs? Under what brand name?

_____

_____

_____

Please complete the attached Table regarding your current and/or past manufacture of firefighting foams.

Delta Consultants thanks you for your time and cooperation. Please return this questionnaire in the enclosed stamped, self-addressed envelope to Delta Consultants within 30 days. Please contact Nancy Rodning, Delta Consultants, at 651-697-5152 if you have any questions regarding this questionnaire.

Questionnaire completed by:

_____
Name

_____
Title

_____
Company/Division

_____
Date

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
PFCs in Firefighting Foam

Type of Foam	*Is/Was foam type manufactured by Company? (yes or no)*	*Brand name(s) foam is/was sold under?*	*Years of brand production?*	*Is/was foam made with PFCs?*	*Is/was product made with or degrade to PFOS, PFOA, PFBA, or other? Please specify*
Aqueous Film-Forming Foam (AFFF)	_____	1)			
		2)			
		3)			
		4)			
		5)			
		6)			
AFFF-Polar Foam (AFFF-P)	_____	1)			
		2)			
		3)			
		4)			
		5)			
		6)			
AFFF Alcohol-Resistant Foam (AFFF-AR)	_____	1)			
		2)			
		3)			
		4)			
		5)			
		6)			

2222.0084

STATE_02821041

DELTA

QUESTIONNAIRE
PFCs in Firefighting Foam

Type of Foam	*Is/Was foam type manufactured by Company? (yes or no)*	*Brand name(s) foam is/was sold under?*	*Years of brand production?*	*Is/was foam made with PFCs?*	*Is/was product made with or degrade to PFOS, PFOA, PFBA, or other? Please specify*
Fluoroprotein Foam (FP)	_____	1)			
		2)			
		3)			
		4)			
		5)			
		6)			
Fluoroprotein Polar Foam (FP-P)	_____	1)			
		2)			
		3)			
		4)			
		5)			
		6)			
Film-Forming Fluoroprotein Foam (FFFP)	_____	1)			
		2)			
		3)			
		4)			
		5)			
		6)			

2222.0085

STATE_02821042

DELTA

QUESTIONNAIRE
PFCs in Firefighting Foam

Type of Foam	*Is/Was foam type manufactured by Company? (yes or no)*	*Brand name(s) foam is/was sold under?*	*Years of brand production?*	*Is/was foam made with PFCs?*	*Is/was product made with or degrade to PFOS, PFOA, PFBA, or other? Please specify*
FFFP-Polar Foam (FFFP-P)	_____	1)			
		2)			
		3)			
		4)			
		5)			
		6)			
FFFP Alcohol-Resistant Foam (FFFP-AR)	_____	1)			
		2)			
		3)			
		4)			
		5)			
		6)			
Training Foam	_____	1)			
		2)			
		3)			
		4)			
		5)			
		6)			

2222.0086

STATE_02821043

SUSTAINABLE STRATEGIES FOR GLOBAL LEADERS

April 4, 2008

MANUFACTURER ADDRESS

Subject: Research on PFCs in Firefighting Foams

Dear

Delta Consultants, on behalf of the Minnesota Pollution Control Agency, is conducting research into the historical and current use of perflurorochemicals (PFCs) in firefighting foams. It is the understanding of Delta Consultants that firefighting foams are manufactured with PFCs that may degrade into perfluorooctane sulfate (PFOS), perfluorooctanic acid (PFOA), perfluorobutanoic acid (PFBA), and other fluorinated compounds. With recent public concern about PFOS, PFOA and PFBA in the environment, the Minnesota Pollution Control Agency is seeking further information from firefighting foam manufacturers about the composition of their firefighting foams, the degradation of PFCs in the foams, and the brand names of foams produced now and in the past.

DELTA

As a manufacturer of firefighting foams, Delta Consultants and the Minnesota Pollution Control Agency are asking for your help and expertise. Delta Consultants is requesting you or one of your experts complete the attached questionnaire. This information from you and other firefighting foam manufacturers will be included in a comprehensive report for the Minnesota Pollution Control Agency that will also include a survey of fire departments and other firefighting entities throughout the State regarding their use of firefighting foams.

Delta Consultants and the Minnesota Pollution Control Agency appreciate your assistance. Please return the completed questionnaire to Delta Consultants in the enclosed addressed envelope within 30 days. If you have any questions or concerns regarding this research or the attached questionnaire, please call:

Nancy Rodning, Delta Consultants, 651-697-5152
Nile Fellows, Remediation Division, MPCA, 651-296-7299

Sincerely,

DELTA CONSULTANTS

Nancy Rodning

Nancy Rodning
Project Scientist

enclosures: Questionnaire and Stamped Self-Addressed Envelope

Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473
www.deltaenv.com

QUESTIONNAIRE
PFCs in Firefighting Foam

1. Are the PFCs used in your firefighting foam manufacturing process made using a telomerization process or an electrochemical fluorination (EFC) process?

2. Do the PFCs used in the manufacture of your firefighting foams contain or degrade to perfluorooctane sulfate (PFOS), perfluorooctanic acid (PFOA), perfluorobutanoic acid (PFBA), or other derivative substances? If so, under what conditions?

3. Are you currently developing or manufacturing firefighting foams that do not contain PFCs? Under what brand name?

Please complete the attached Table regarding your current and/or past manufacture of firefighting foams.

Delta Consultants thanks you for your time and cooperation. Please return this questionnaire in the enclosed stamped, self-addressed envelope to Delta Consultants within 30 days. Please contact Nancy Rodning, Delta Consultants, at 651-697-5152 if you have any questions regarding this questionnaire.

Questionnaire completed by:

Name

Title

Company/Division

Date

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
PFCs in Firefighting Foam

Type of Foam	*Is/Was foam type manufactured by Company? (yes or no)*	*Brand name(s) foam is/was sold under?*	*Years of brand production?*	*Is/was foam made with PFCs?*	*Is/was product made with or degrade to PFOS, PFOA, PFBA, or other? Please specify*
Aqueous Film-Forming Foam (AFFF)	_____	1)			
		2)			
		3)			
		4)			
		5)			
		6)			
AFFF-Polar Foam (AFFF-P)	_____	1)			
		2)			
		3)			
		4)			
		5)			
		6)			
AFFF Alcohol-Resistant Foam (AFFF-AR)	_____	1)			
		2)			
		3)			
		4)			
		5)			
		6)			

2222.0089

STATE_02821046

DELTA

QUESTIONNAIRE
PFCs in Firefighting Foam

Type of Foam	*Is/Was foam type manufactured by Company? (yes or no)*	*Brand name(s) foam is/was sold under?*	*Years of brand production?*	*Is/was foam made with PFCs?*	*Is/was product made with or degrade to PFOS, PFOA, PFBA, or other? Please specify*
Fluoroprotein Foam (FP)	_____	1)			
		2)			
		3)			
		4)			
		5)			
		6)			
Fluoroprotein Polar Foam (FP-P)	_____	1)			
		2)			
		3)			
		4)			
		5)			
		6)			
Film-Forming Fluoroprotein Foam (FFFP)	_____	1)			
		2)			
		3)			
		4)			
		5)			
		6)			

2222.0090

STATE_02821047

DELTA

QUESTIONNAIRE
PFCs in Firefighting Foam

Type of Foam	*Is/Was foam type manufactured by Company? (yes or no)*	*Brand name(s) foam is/was sold under?*	*Years of brand production?*	*Is/was foam made with PFCs?*	*Is/was product made with or degrade to PFOS, PFOA, PFBA, or other? Please specify*
FFFP-Polar Foam (FFFP-P)	_____	1)			
		2)			
		3)			
		4)			
		5)			
		6)			
FFFP Alcohol-Resistant Foam (FFFP-AR)	_____	1)			
		2)			
		3)			
		4)			
		5)			
		6)			
Training Foam	_____	1)			
		2)			
		3)			
		4)			
		5)			
		6)			

2222.0091

STATE_02821048

LIST OF FIREFOAM MANUFACTURERS

Tyco Fire & Security (Ansul)
Colleen Repplier
President, Tyco Fire & Security
451 North Cannon Avenue
Lansdale PA 19446
Tele: 215 393-0241
Fax: 215 362-8727
Email: colleen.repplier@tycofp.com
www.ansul.com/en/home.asp

DuPont
Mark P. Vergnano
Group Vice President - DuPont Safety & Protection
Barley Mill Plaza
4417 Lancaster Pike
Wilmington, DE 19805
www.dupont.com

Chemguard
John Vieweger
Vice President, Sales & Marketing, Fire Suppression Division
204 South Sixth Avenue
Mansfield, TX 76063
817-473-9964 x206
www.chemguard.com

U.S. Foam Technologies
Alden Ozment
President, U.S. Foam Technologies
800 East Cotton Street
Longview, TX 75602
903-753-3901 x100
www.usfoam.com

Kidde Fire Fighting, a UTC Fire & Security Company
Kidde Fire Fighting
Attn: Bryan Rambo
180 Sheree Blvd.,
Suite 3900
Exton, PA 19341
610-363-1400
www.kidde-fire.com (National Foam, Feecon, Angus)

Williams Fire & Hazard Control
Eric Lavergne, President
P.O. Box 1359
Mauriceville, TX 77626
800-231-4613
www.williamsfire.com

1675 Texla Road
Vidor, TX 77662

Buckeye Fire Equipment
Thomas J. Bower
President, Buckeye Fire Equipment
110 Kings Road
Kings Mountain, NC 28086
704-739-7415
www.buckeyef.com

Verde Environmental, Inc.
William L. Scogin
President and CEO
9223 Eastex Freeway
Houston, TX 77093
800-626-6598
713-691-6468
www.micro-blaze.com

ICL Performance Products (Phos-Chek)
Eddie Goldberg
Fire Safety Business Director
Edward.goldberg@icl-pplp.com
www.phoschek.com

Fire-Trol Holdings, L.L.C.
2620 N. 37th Drive
Phoenix, AZ 85009
530-865-4932

Summit Environmental
Don Jordan
President and CFO
11610 Dallas Parkway, Suite 2100
Dallas, TX 75248
800-522-7841
972-816-1614
www.summitenvironmental.com

Dynax
Dynax Corporation
79 Westchester Av.
PO Box 285
Pound Ridge, NY 10576
914-764-0202
www.dynaxcorp.com

Jean B. Sweeney
Staff Vice President

3M Environmental, Health and Safety Operations

900 Bush Avenue, Building 42-2E-26
PO Box 33331
St. Paul, MN 55133-3331
651 778 5488

3M

May 6, 2008

Delta Environmental
5910 Rice Creek Parkway
Suite 100
St. Paul, MN 55126

Attention: Ms. Nancy Rodning

Subject: Response to Letter of Request dates April 2, 2008

Dear Ms. Rodning:

This is in response to your letter dated April 2, 2008, requesting information on production of fire fighting foams at 3M .We are pleased to provide the information on the form enclosed with your request. If you have any questions or need additional information, please contact Mr. Michael A. Santoro, Director of Regulatory Affairs at 651-733-6374.

Sincerely,

Jean B Sweeney

Jean Sweeney
Vice President
3M Environmental, Health, and Safety Operations

Enclosure

SUSTAINABLE STRATEGIES FOR GLOBAL LEADERS

April 2, 2008

Ms. Jean Sweeney
Vice President, 3M Environmental, Health and Safety Operations
3M Corporate Headquarters
3M Center
St. Paul, MN 55144-1000

Subject: Research on PFCs in Firefighting Foams

Dear Ms. Sweeney:

Delta Consultants, on behalf of the Minnesota Pollution Control Agency, is conducting research into the historical and current use of perflurorochemicals (PFCs) in firefighting foams. It is the understanding of Delta Consultants that firefighting foams historically manufactured by 3M contained PFCs that may have biodegraded into perfluorooctane sulfate (PFOS) and/or perfluorooctanic acid (PFOA). With recent public concern about PFOS, PFOA and perfluorobutanoic acid (PFBA) in the environment, the Minnesota Pollution Control Agency is seeking further information from firefighting foam manufacturers about the composition of their firefighting foams, the degradation of PFCs in the foams, and the brand names of foams produced now and/or in the past.

DELTA

As a former manufacturer of firefighting foams, Delta Consultants and the Minnesota Pollution Control Agency are asking for your help and expertise. Delta Consultants is requesting you or one of your experts complete the attached questionnaire. This information from 3M and other firefighting foam manufacturers will be included in a comprehensive report for the Minnesota Pollution Control Agency that will also include a survey of fire departments and other firefighting entities throughout the State regarding their use of firefighting foams.

Delta Consultants and the Minnesota Pollution Control Agency appreciate your assistance. Please return the completed questionnaire to Delta Consultants in the enclosed addressed envelope within 30 days. If you have any questions or concerns regarding this research or the attached questionnaire, please call:

Nancy Rodning, Delta Consultants, 651-697-5152
Nile Fellows, Remediation Division, MPCA, 651-296-7299

Sincerely,

DELTA CONSULTANTS

Nancy Rodning
Project Scientist

enclosures: Questionnaire and Stamped Self-Addressed Envelope

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473
www.deltaenv.com

DELTA

QUESTIONNAIRE
PFCs in Firefighting Foam

1. Were 3M's firefighting foams made using only an electrochemical fluorination (EFC) process? Did 3M manufacture firefighting foams using a telomerisation process?

   3M produced firefighting foams using perfluorinated compounds made with the electrochemical fluorination (ECF) process only. 3M did not use the telomerisation process

2. Do the PFCs used in fire-fighting foams contain or degrade to perfluorobutanoic acid (PFBA)? If so, under what conditions?

   NO

3. Is 3M currently developing or manufacturing firefighting foams that do not contain PFCs? Under what brand name?

   3M has discontinued the manufacture and development of fire fighting foams.

Please complete the attached Table regarding your current and/or past manufacture of fire-fighting foams.

Delta Consultants thanks you for your time and cooperation. Please return this questionnaire in the enclosed stamped, self-addressed envelope to Delta Consultants within 30 days. Please contact Nancy Rodning, Delta Consultants, at 651-697-5152 if you have any questions regarding this questionnaire.

Questionnaire completed by:

Michael A. Santoro
Name

Director, Regulatory Affairs
Title

3M. Company
Company/Division

May 6, 2008
Date

member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
PFCs in Firefighting Foam

Type of Foam	*Is/Was foam type manufactured by 3M? (yes or no)*	*Brand name(s) foam is/was sold under?*	*Years of brand production?*	*Is/was foam made with PFCs?*	*Does/did product contain or degrade to PFOS, PFOA or PFBA? Please specify*
Aqueous Film-Forming Foam (AFFF)	Yes	1) Lightwater ™		Yes	Yes - contains a
		~~2)~~ Commercial	1965 - 2002		PFOS salt and
		~~3)~~ Military Spec.	1960 - 2002		a PFHS adduct
		4)			
		5)			
		6)			
AFFF-Polar Foam (AFFF-P)	No	1)			
		2)			
		3)			
		4)			
		5)			
		6)			
AFFF Alcohol-Resistant Foam (AFFF-AR)	Yes	1) Lightwater ™ ATC	1980(?) - 2000	Yes	Yes - contains a
		2) (Alcohol Type Concentrate)			PFOS salt and
		3)			a PFHS adduct
		4)			
		5)			
		6)			

2222.0097

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DELTA

QUESTIONNAIRE
PFCs in Firefighting Foam

Type of Foam	*Is/Was foam type manufactured by 3M? (yes or no)*	*Brand name(s) foam is/was sold under?*	*Years of brand production?*	*Is/was foam made with PFCs?*	*Does/did product contain or degrade to PFOS, PFOA or PFBA? Please specify*
Fluoroprotein Foam (FP)	No	1)			
		2)			
		3)			
		4)			
		5)			
		6)			
Fluoroprotein Polar Foam (FP-P)	No	1)			
		2)			
		3)			
		4)			
		5)			
		6)			
Film-Forming Fluoroprotein Foam (FFFP)	No	1)			
		2)			
		3)			
		4)			
		5)			
		6)			

2222.0098

STATE_02821055

DELTA

QUESTIONNAIRE
PFCs in Firefighting Foam

Type of Foam	*Is/Was foam type manufactured by 3M? (yes or no)*	*Brand name(s) foam is/was sold under?*	*Years of brand production?*	*Is/was foam made with PFCs?*	*Does/did product contain or degrade to PFOS, PFOA or PFBA? Please specify*
FFFP-Polar Foam (FFFP-P)	No	1)			
		2)			
		3)			
		4)			
		5)			
		6)			
FFFP Alcohol-Resistant Foam (FFFP-AR)	No	1)			
		2)			
		3)			
		4)			
		5)			
		6)			
Training Foam	Yes	1) 3M Training Foam	~1998	No	No
		2) made by Coverfoam			
		3)			
		4)			
		5)			
		6)			
Class A	Yes		?	No	No

2222.0099

STATE_02821056

QUESTIONNAIRE
PFCs in Firefighting Foam

1. Are the PFCs used in your fluorosurfactants manufacturing process made using a telomerization process or an electrochemical fluorination (EFC) process?

   Telomerization Process Only.

2. Do the PFCs used in the manufacture of your firefighting foam products contain or degrade to perfluorooctane sulfate (PFOS), perfluorooctanic acid (PFOA), perfluorobutanoic acid (PFBA), or other derivative substances? If so, under what conditions?

   Dynax Fluorosurfactants/Foam Stabilizers used by agent producers are not derived from or degrant into PFOS, PFOA, PFBA.

3. Are you currently developing or manufacturing firefighting foams products that do not contain PFCs? Under what brand name?

   Dynax is not a foam agent producer.

Please complete the attached Table regarding your current and/or past manufacture of fire-fighting foams.

Delta Consultants thanks you for your time and cooperation. Please return this questionnaire in the enclosed stamped, self-addressed envelope to Delta Consultants within 30 days. Please contact Nancy Rodning, Delta Consultants, at 651-697-5152 if you have any questions regarding this questionnaire.

Questionnaire completed by:

Dr. Eduard K. Kleiner
Name

President
Title

Dynax Corporation
Company/Division

April 9, 2008
Date

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

Dynax Corporation
79 Westchester Avenue
Pound Ridge, NY 10576
T 914 764 0202 F 914 764 0553
info@dynaxcorp.com

dynax

April 9, 2008

Ms. Nancy Rodning, Project Specialist
Delta Consultants
5910 Rice Creek Parkway
Suite 100
St. Paul, MN 55126

Subject: PFCs in Fire Fighting Foam Agents

Dear Ms. Rodning:

Thank you for your letter and questionnaire of April 4, 2008 regarding "Research on PFCs in Firefighting Foams."

As I had discussed with you, Dynax is not a producer of fire fighting foam agents such as AFFF and FFFP agents, but is a major producer and supplier of fluorosurfactants and fluorochemical foam stabilizers (= polymeric fluorosurfactants) to agents producers worldwide. Information regarding Dynax fluorochemicals can be found on our webside, www.dynaxcorp.com.

Dynax, founded in 1991, has always been promoting telomer-based fluorosurfactants for the production of what we refer to as AFFF-EMB (Environmentally More Benign) agents and has carried out extensive R+D for the US Air Force, as described in the attached title page of the Phase II Final Report of SBIR Air Force Contract AF 93-009.

Dynax fluorosurfactants/foam stabilizers are used by agent manufacturers for the production of the following fire fighting foam agents:

- AFFF and AR-AFFF Agents
- FFFP and AR-FFFP Agents
- FP Agents

For information regarding agent brand names and other agent related questions, you should contact the agent producers directly.

Enclosed please find page one of your questionnaire. In light of EPA's Stewardship Program regarding the 2010/2015 Phase-Out of C8 and higher homolog fluorochemicals, I am surprised that your questionnaire does not include

questions regarding the use of all C6 telomer based vs. C8 and higher telomer-based fluorosurfactants/foam stabilizers.

The enclosed DuPont press release is addressing this issue of C6 telomer based fluorochemicals.

I've also enclosed Dynax advertisements published in the January and April 2008 issues of the *Industrial Fire Journal* and a recent publication about Dynax from the August/September 2007 issue of *The Economy Tribune*.

Please let me know if you need additional information.

With best regards,

Eduard Kleiner

***

encs.

EKK/r

It's This Simple:

C6 Fluorosurfactants + C6 Foam Stabilizers

= BEST AR-AFFFs and AR-FFFPs

"Best AR-AFFF and AR-FFFP Agents" meet the most stringent fire performance specifications with the lowest fluorochemical content. Fluorochemicals in "Best Agents" should neither be derived from nor degrade into PFOA or its higher homologs. In addition, "Best Agents" meet environmental requirements proposed by US and foreign regulatory agencies.

ONLY Dynax offers a family of C6 Fluorosurfactants and C6 Foam Stabilizers for the production of low-viscosity 3x3, 1x3 and 1x1 AR-AFFF and AR-FFFP agents meeting "Best" environmental and fire performance requirements. The same applies to AFFF and FFFP agents derived from Dynax C6 Fluorosurfactants.
All Dynax C6 Fluorochemicals are non-flammable and free of corrosive halide salts.

Dynax C6 Fluorosurfactants and Foam Stabilizers

Dynax Product	Ionic Type	Agent Application Guide			
		AFFF	AR-AFFF	FFFP	AR-FFFP
Fluorosurfactants					
DX1030	Anionic	●	●	–	–
DX1040	Anionic	●	●	–	–
DX1080	Nonionic	●	●	●	●
DX1090	Nonionic	●	●	●	●
DX1025*	Anionic	●	●	–	–
Foam Stabilizers					
DX5011	Anionic	–	●	–	●
DX5022	Anionic	–	●	–	●
DX5065**	Anionic	–	●	–	–
DX5066**	Anionic	–	●	–	●

* Blend of Fluorosurfactants ** Blend of Fluorosurfactants and Foam Stabilizers

US EPA PFOA Stewardship Program

By 2010: 95% Reduction of facility emissions and product content level of PFOA, precursor chemicals that can break down to PFOA and related higher homolog chemicals.

By 2015: Elimination of PFOA, PFOA precursors and related higher homologue chemicals from emission and products.

DYNAX CORPORATION
PO Box 285, Pound Ridge, NY 10576 USA
T 914 764 0202 techinfo@dynaxcorp.com
F 914 764 0553 www.dynaxcorp.com

dynax FLUOROCHEMICALS

Foams made by Ansul (Thunderstorm)

DELTA

QUESTIONNAIRE
PFCs in Firefighting Foam

1. Are the PFCs used in your firefighting foam manufacturing process made using a telomerization process or an electrochemical fluorination (EFC) process?

   We do not manufacture Fire Fighting Foam

2. Do the PFCs used in the manufacture of your firefighting foams contain or degrade to perfluorooctane sulfate (PFOS), perfluorooctanic acid (PFOA), perfluorobutanoic acid (PFBA), or other derivative substances? If so, under what conditions?

3. Are you currently developing or manufacturing firefighting foams that do not contain PFCs? Under what brand name?

Please complete the attached Table regarding your current and/or past manufacture of firefighting foams.

Delta Consultants thanks you for your time and cooperation. Please return this questionnaire in the enclosed stamped, self-addressed envelope to Delta Consultants within 30 days. Please contact Nancy Rodning, Delta Consultants, at 651-697-5152 if you have any questions regarding this questionnaire.

Questionnaire completed by:

Eric LaVerne
Name

Title

Williams Fire & Haz.
Company/Division

4/8/08
Date

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

APPENDIX B

Questionnaires to Minnesota Users of Firefighting Foams

List of Minnesota Surveyed Departments and Schools

May 23, 2008

Dear Fire Chief:

On April 25, 2008, the Minnesota Pollution Control Agency (MPCA) sent a request for information on the types and amounts of firefighting foam used by your department. We are collecting this information as part of ongoing research on the presence of perfluorinated compounds (PFCs) in the environment. PFCs have been found in our lakes, fish and groundwater across the State and are a potential human health risk. PFCs are used in the manufacture of a wide variety of commercial products, including some firefighting foams.

The MPCA recognizes that firefighting foams are essential to the protection of the public and that PFCs are an important and effective ingredient in the foams. Because PFC-containing firefighting foam will continue to be used, we are asking for your help to better understand how foam is used by fire departments and training schools across the State.

So far we have received responses from 275 departments around the state but we would like to hear from as many as possible. Your input is important to us. We have enclosed an additional copy of the questionnaire for your convenience. Please take a few minutes to complete the enclosed questionnaire regarding your department's past and present use of firefighting foams.

Please return the completed questionnaire in the enclosed self-addressed, stamped envelope to Delta Consultants, who will be compiling the results for the MPCA, **by June 6, 2008**. If you have any questions regarding this research or the attached questionnaire, please call either Nancy Rodning at Delta Consultants, 651-697-5152, or me at 651-297-8666.

Thank you very much for your assistance in this important research project.

Sincerely,



Jim Stockinger
Fire Liaison
Emergency Response Unit
Minnesota Pollution Control Agency

Fire Captain 12
Fire Training Officer
Linwood Fire Department, Anoka County

Enclosures (2)
- Foam use questionnaire
- Stamped, addressed return envelope

April 25, 2008

Dear Fire Chief:

The Minnesota Pollution Control Agency (MPCA) is conducting research on the presence of perfluorinated compounds (PFCs) in the environment. PFCs have been found in our lakes, fish and groundwater across the State and are a potential human health risk. PFCs are used in the manufacture of a wide variety of commercial products, including some firefighting foams.

The MPCA recognizes that firefighting foams are essential to the protection of the public and that PFCs are an important and effective ingredient in the foams. Because PFC-containing firefighting foam will continue to be used, we are asking for your help to better understand how foam is used by fire departments and training schools across the State.

Your input is important to us. Please complete the enclosed questionnaire regarding your department's past and present use of firefighting foams. Please return the completed questionnaire to Delta Consultants, who will be compiling the results for the MPCA, **by May 9, 2008**. If you have any questions regarding this research or the attached questionnaire, please call either Nancy Rodning at Delta Consultants, 651-697-5152, or me at 651-297-8666.

Thank you very much for your assistance in this important research project.

Sincerely,

Jim Stockinger
Fire Liaison
Emergency Response Unit
Minnesota Pollution Control Agency

Fire Captain 12
Fire Training Officer
Linwood Fire Department, Anoka County

Enclosures (2)
- Foam use questionnaire
- Stamped, addressed return envelope

April 28, 2008

SCHOOL ADDRESS

Dear

The Minnesota Pollution Control Agency (MPCA) is conducting research on the presence of perfluorinated compounds (PFCs) in the environment. PFCs have been found in our lakes, fish and groundwater across the State and are a potential human health risk. PFCs are used in the manufacture of a wide variety of commercial products, including some firefighting foams.

The MPCA recognizes that firefighting foams are essential to the protection of the public and that PFCs are an important and effective ingredient in the foams. Because PFC-containing firefighting foam will continue to be used, we are asking for your help to better understand how foam is used by fire departments and training schools across the State.

Your input is important to us. Please complete the enclosed questionnaire regarding your school's current and historic use of firefighting foams in your training program. Please return the completed questionnaire to Delta Consultants, who will be compiling the results for the MPCA, **by May 9, 2008**. If you have any questions regarding this research or the attached questionnaire, please call either Nancy Rodning at Delta Consultants, 651-697-5152, or me at 651-297-8666.

Thank you very much for your assistance in this important research project.

Sincerely,



Jim Stockinger
Fire Liaison
Emergency Response Unit
Minnesota Pollution Control Agency

Fire Captain 12
Fire Training Officer
Linwood Fire Department, Anoka County

Attachment (1)
Foam use questionnaire

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department use Class A and/or Class B firefighting foams for firefighting operations?

   _____ Class A only _____ Class B only _____ Both Class A and Class B

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. What type of foam does your Department use for training exercises operations?

   _____ Class A only _____ Class B only _____ Both Class A and Class B

   _____ Training foam _____ No foam is used in training **(If none, please skip to Question 8)**

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

   _____

   _____

Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use (please specify)?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008.

Questionnaire completed by:

_____
Name and Title

_____
Fire Department

_____
Phone Number Date

_____
E-Mail Address

Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

   _____

   _____

OVER→

Inogen Environmental Alliance

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	_____	_____	_____	_____	_____
Class B Alcohol-Resistant (AR)-AFFF	_____	_____	_____	_____	_____
Class B Protein	_____	_____	_____	_____	_____
Class B Fluoroprotein (FP)	_____	_____	_____	_____	_____
Class B Film-Forming Fluoroprotein (FFFP)	_____	_____	_____	_____	_____
Class B AR-FFFP	_____	_____	_____	_____	_____
Class A-B Hi Expansion Foam	_____	_____	_____	_____	_____
Class A	_____	_____	_____	_____	_____
Training Foam	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

_____
Name and Title

_____
Fire Department

_____
Phone Number Date

_____
E-Mail Address

Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department use Class A and/or Class B firefighting foams for firefighting operations?

   _____ Class A only _____ Class B only _____ Both Class A and Class B

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. What type of foam does your Department use for training exercises operations?

   _____ Class A only _____ Class B only _____ Both Class A and Class B

   _____ Training foam _____ No foam is used in training **(If none, please skip to Question 8)**

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. Where does/did the training take place? Please include specific location information for current and past training areas.

   _____

   _____

   _____

7. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

8. In fire responses at the refinery, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

9. Do other fire departments utilize your training facility? If so, what department? _____

Do the other departments provide their own foam? _____ Yes _____ No

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

10. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008.

Questionnaire completed by:

_____
Name and Title

_____
Fire Department

_____
Phone Number Date

_____
E-Mail Address

Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does or has the school's firefighting training program include(d) practice with Class A or Class B foams, either now or in the past?

   _____ Yes - **Please proceed to Question 2**

   _____ No - **Please sign the back of this form and return to Delta Consultants**

2. How often does the school train with Class A or Class B foam?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

3. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

4. Where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Containment system for off-site disposal

   _____ Other (please describe): _____

5. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

   _____

   _____

6. Do other fire departments utilize your facility for their training with foam?

   _____ Yes

   _____ No

   -- **If yes,** do the other fire departments bring their own foam? _____ Yes _____ No

   -- **If yes,** approximately how much foam is discharged annually by other departments at your facility?

   _____ Less than 5 gallons _____ 5-25 gallons _____ 25 to 50 gallons

   _____ More than 50 gallons (please specify): _____

Inogen Environmental Alliance

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

7. What type(s) and brand(s) of foam are currently or were historically used for training by the school? Please check all that apply.

Type of Foam	Brand of Foam	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)			
Class B Alcohol-Resistant (AR)-AFFF			
Class B Protein			
Class B Fluoroprotein (FP)			
Class B Film-Forming Fluoroprotein (FFFP)			
Class B AR-FFFP			
Class A-B Hi Expansion Foam			
Class A			
Training Foam			
Other			

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152) or nrodning@deltaenv.com, or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666) or jim.stockinger@state.mn.us if you have any questions regarding this questionnaire.

Please return this form by May 9, 2008, to Nancy Rodning, Delta Consultants: nrodning@deltaenv.com

Questionnaire completed by:

_____
Name and Title

_____
School Name

_____
Phone Number Date

_____
E-Mail Address

Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

	FIREFIGHTING FOAM SURVEY MAILING LIST			
	DEPARTMENT	**ADDRESS**	**CITY**	**ZIP**
*	ABERCROMBIE FIRE PROTECTION DISTRICT	606 BROADWAY, PO BOX 67	ABERCROMBIE	58001
*	ADA FIRE DEPARTMENT	404 W MAIN STREET	ADA	56510
*	ADAMS VOL FIRE DEPT	MAIN ST, BOX 357	ADAMS	55909
*	ADRIAN FIRE DEPARTMENT	BOX 187	ADRIAN	56110
*	AITKIN FIRE DEPARTMENT	P O BOX 161	AITKIN	56431
*	ALASKA FIRE DEPARTMENT	28987 ALASKA LANE	PUPOSKY	56667
*	ALBANY FIRE DEPARTMENT	221 4TH ST, PO BX 1	ALBANY	56307
*	ALBERT LEA FIRE DEPT	221 E CLARK ST	ALBERT LEA	56007
*	ALBERT LEA TWP FIRE DEPT	712 E MAIN	ALBERT LEA	56007
*	ALBERTVILLE FIRE DEPT	11350 57TH ST NE, PO BOX 56	ALBERTVILLE	55301
	ALBORN FIRE DEPARTMENT	6955 STONEY BROOK ROAD	ALBORN	55702
	ALDEN FIRE DEPARTMENT	BOX 241, 174 N BROADWAY	ALDEN	56009
	ALEXANDRIA FIRE DEPT	302 FILLMORE ST	ALEXANDRIA	56308
	ALMELUND FIRE DEPT	15740 MAPLE LN	CENTER CITY	55012
*	ALPHA FIRE DEPARTMENT	230 MAIN ST N	ALPHA	56111
	ALTURA FIRE DEPARTMENT	PO BOX 102	ALTURA	55910
	ALVARADO VOL FIRE DEPT	PO BOX 953	ALVARADO	56710
	AMBOY FIRE DEPARTMENT	PO BOX 115	AMBOY	56010
	ANDOVER FIRE DEPT	13875 CROSSTOWN BLVD NW	ANDOVER	55304
	ANNANDALE FIRE DEPT	PO BX K, 30 CEDAR ST E	ANNANDALE	55302
*	ANOKA-CHAMPLIN FIRE DEPT	2015 - 1ST AVE N	ANOKA	55303
*	APPLE VALLEY FIRE DEPT	7100 147TH STREET WEST	APPLE VALLEY	55124
*	APPLETON FIRE DEPT	230 W SNELLING AVE	APPLETON	56208
	ARCO FIRE DEPARTMENT	RR 1 BOX 81	ARCO	56113
	ARGYLE FIRE DEPARTMENT	BOX 241	ARGYLE	56713
*	ARLINGTON FIRE DEPT	312 W ALBAN ST	ARLINGTON	55307
*	ARROWHEAD FIRE DEP	9797 HIGHWAY 2	BROOKSTON	55711
*	ASHBY FIRE DEPARTMENT	203 W MAIN STREET	ASHBY	56309
*	ASKOV VOL FIRE DEPT.	PO BOX 245	ASKOV	55704
	ATWATER FIRE DEPARTMENT	PO BOX 457	ATWATER	56209
	AUDUBON FIRE DEPARTMENT	PO BOX 263	AUDUBON	56511
*	AURORA FIRE DEPARTMENT	PO BOX 160, 16 W 2ND AVE N	AURORA	55705
*	AUSTIN FIRE DEPARTMENT	122 1ST AVE NE	AUSTIN	55912
	AVOCA FIRE DEPARTMENT	201 NE 2ND ST	AVOCA	56114
*	AVON FIRE DEPARTMENT	P O BOX 244	AVON	56310
*	BABBITT VOL FIRE DEPT	71 SOUTH DRIVE	BABBITT	55706
	BACKUS VOL FIRE DEPT	PO BOX 44	BACKUS	56435
	BADGER FIRE DEPARTMENT	P O BOX 193	BADGER	56714
*	BAGLEY FIRE DEPARTMENT	P O BOX 178	BAGLEY	56621
*	BALATON FIRE DEPARTMENT	P O BOX 333	BALATON	56115
*	BALSAM VOL FIRE DEPT	1286 SCENIC HIGHWAY	BOVEY	55709
	BARNESVILLE FIRE DEPT	BOX 481	BARNESVILLE	56514
*	BARNUM VOL FIRE DEPT	BOX 161	BARNUM	55707
	BARRETT FIRE DEPARTMENT	BOX 33	BARRETT	56311
*	BATTLE LAKE FIRE DEPT	PO BOX 662	BATTLE LAKE	56515
*	BAUDETTE FIRE DEPT	PO BX 686, 110 1ST AV SW	BAUDETTE	56623
	BAYPORT FIRE DEPARTMENT	294 3RD ST N	BAYPORT	55003
*	BEAR CREEK FIRE DEPT	25814 UPPER RICE LAKE RD	SHEVLIN	56676
*	BEARDSLEY FIRE DEPT		BEARDSLEY	56211
	BEARVILLE TWP FIRE DEPT	62949 COUNTY ROAD 557	COOK	55723
	BEAVER BAY VOL FIRE DEPT	BOX 416	BEAVER BAY	55601
*	BEAVER CREEK FIRE DEPT	PO BX 61	BEAVER CREEK	56116
	BECKER VOL FIRE DEPT	PO BOX 275	BECKER	55308
*	BELGRADE FIRE DEPT	PO BOX 296	BELGRADE	56312
	BELLE PLAINE FIRE DEPT	700 E MAIN ST	BELLE PLAINE	56011
*	BELLINGHAM FIRE DEPT	2018 300TH ST	BELLINGHAM	56212
*	BELTRAMI FIRE DEPARTMENT	24100 430TH STREET SW	BELTRAMI	56517
*	BELVIEW FIRE DEPARTMENT	PO BX 159, 202 S MAIN	BELVIEW	56214
*	BEMIDJI FIRE DEPARTMENT	5TH ST & AMERICA AVE	BEMIDJI	56601
*	BENSON FIRE DEPARTMENT	1410 KANSAS AV	BENSON	56215
*	BERTHA FIRE DEPARTMENT	P O BOX 245	BERTHA	56437
	BETHEL FIRE DEPARTMENT	139 BROADWAY ST NW, PO BX 67	BETHEL	55005
	BIG FALLS FIRE DEPARTMENT	P O BOX 158	BIG FALLS	56627
*	BIG LAKE FIRE DEPARTMENT	20243 CR 43,PO BX 129	BIG LAKE	55309
*	BIGELOW FIRE DEPARTMENT	BOX 38	BIGELOW	56117
	BIGFORK VOL FIRE DEPT	PO BOX 128	BIGFORK	56628
	BIRCHDALE RURAL FIRE DEPT.	PO BX GENERAL DELIVERY	BIRCHDALE	56629
*	BIRD ISLAND FIRE DEPT	P O BOX 152	BIRD ISLAND	55310
	BIWABIK TWP VOL FIRE DEPT	6555 OAK DRIVE	GILBERT	55741
	BIWABIK VOL FIRE DEPT.	PO BOX 917	BIWABIK	55708
	BLACKDUCK FIRE DEPT	PO BOX 380	BLACKDUCK	56630
*	BLACKHOOF FIRE DEPART	1757 VALLEYVIEW RD	BARNUM	55707
*	BLOMKEST FIRE DEPART	19450 HWY 77 SOUTH	BLOMKEST	56216
*	BLOOMING PRAIRIE FIRE DEPT.	138 HWY AV S, PO BX 796	BLOOMING PRAIRIE	55917
*	BLOOMINGTON FIRE DEPT	10 W 95TH ST	BLOOMINGTON	55420
	BLUE EARTH FIRE DEPT	PO BOX 38	BLUE EARTH	56013

STATE_02821074

2222.0117

	FIREFIGHTING FOAM SURVEY MAILING LIST			
	DEPARTMENT	**ADDRESS**	**CITY**	**ZIP**
*	BLUFFTON FIRE DEPT	P O BOX 32	BLUFFTON	56518
	BOIS FORTE VOL FIRE DEPT	5344 LAKESHORE DRV,PO BOX 16	NETT LAKE	55772
*	BORUP FIRE DEPARTMENT	PO BOX 81	BORUP	56519
*	BOVEY FIRE DEPARTMENT	BOX 435	BOVEY	55709
*	BOWLUS FIRE DEPARTMENT	PO BOX 56	BOWLUS	56314
	BOYD FIRE DEPARTMENT	PO BOX 7	BOYD	56218
	BRAHAM FIRE DEPARTMENT	BROADWAY AV S, PO BX 200	BRAHAM	55006
	BRAINERD CITY FIRE DEPT	23 LAUREL ST	BRAINERD	56401
*	BRANDON FIRE DEPT	P O BOX 506	BRANDON	56315
*	BRECKENRIDGE FIRE DEPT	CITY HLL, 420 NEBRASKA AV	BRECKENRIDGE	56520
*	BREITUNG FIRE DEPARTMENT	PO BOX 337	SOUDAN	55782
	BREVATOR FIRE DEPT	PO BOX 623	CLOQUET	55720
*	BREWSTER FIRE DEPT	PO BOX 326	BREWSTER	56119
	BRICELYN FIRE DEPARTMENT	P O BOX 338, MAIN ST	BRICELYN	56014
*	BRIMSON AREA VOL FIRE DEPT	3127 HWY 44	BRIMSON	55602
*	BROOK PARK FIRE DEPT	BOX 8	BROOK PARK	55007
	BROOKLYN CENTER FIRE DEPT.	6301 SHINGLE CREEK PKWY	BROOKLYN CENTER	55430
	BROOKLYN PARK FIRE DEPT	5200 85TH AVE N	BROOKLYN PARK	55443
*	BROOTEN FIRE DEPARTMENT	PO BOX 355	BROOTEN	56316
*	BROWERVILLE FIRE DEPT	P O BOX 247	BROWERVILLE	56438
*	BROWNS VALLEY FIRE DEPT	PO BOX 218	BROWNS VALLEY	56219
*	BROWNSDALE FIRE DEPT	P O BOX 64	BROWNSDALE	55918
*	BROWNSVILLE FIRE DEPT	302 ADAMS, PO BOX 138	BROWNSVILLE	55919
*	BROWNTON VOL FIRE DEPT	431 6TH AVE S	BROWNTON	55312
	BRUNO FIRE DEPARTMENT	BOX 52	BRUNO	55712
*	BUFFALO FIRE DEPARTMENT	212 CENTRAL AVE NE	BUFFALO	55313
*	BUFFALO LAKE FIRE DEPT		BUFFALO LAKE	55314
*	BUHL VOLUNTEER FIRE DEPT	BOX 767	BUHL	55713
*	BURNSVILLE FIRE DEPT	100 CIVIC CENTER PKWY	BURNSVILLE	55337
	BUTTERFIELD FIRE DEPT	103 SECOND ST N, PO BOX F	BUTTERFIELD	56120
*	BUYCK COMM VOL FIRE DEPT	8035 ORR/BUYCK RD	BUYCK	55771
*	BYRON FIRE DEPARTMENT	707 FRONTAGE RD NW, BX 445	BYRON	55920
	CALEDONIA FIRE DEPT	231 E MAIN, PO BOX 232	CALEDONIA	55921
	CALLAWAY FIRE DEPT		CALLAWAY	56521
*	CALUMET FIRE DEPT	P O BOX 207	CALUMET	55716
*	CAMBRIDGE FIRE DEPT	300 3RD AVENUE NE	CAMBRIDGE	55008
	CAMPBELL FIRE DEPT	BOX 26	CAMPBELL	56522
*	CANBY FIRE DEPARTMENT	103 9TH ST W	CANBY	56220
	CANNON FALLS FIRE DEPT	320 W HOFFMAN	CANNON FALLS	55009
*	CANOSIA VOL FIRE DEPT	5694 MARTIN RD	DULUTH	55811
*	CANTON FIRE DEPT	PO BOX 179, MAIN ST	CANTON	55922
	CARLOS FIRE DEPT	P O BOX 317	CARLOS	56319
*	CARLTON VOLUNTEER	CARLTON CIVIC CTR, PO BX 336	CARLTON	55718
	CARSONVILLE VOLUNTEER	48465 STATE HWY 225	PONSFORD	56575
	CARVER FIRE DEPT	P0 BX 361, 117 BROADWAY N	CARVER	55315
*	CASS LAKE FIRE DEPT	BOX 824	CASS LAKE	56633
*	CENTENNIAL FIRE DEPT	7741 LAKE DR	LINO LAKES	55014
	CENTER CITY FIRE DEPT	PO BOX 413	CENTER CITY	55012
	CENTRAL LAKES VOL FIRE DEPT	7562 MURPHY LAKE RD	EVELETH	55734
	CEYLON FIRE DEPARTMENT	119 W MAIN	CEYLON	56121
	CHANDLER FIRE DEPT	241 4TH ST, PO BX 57	CHANDLER	56122
*	CHANHASSEN FIRE DEPT	PO BX 147-690 COULTER DR	CHANHASSEN	55317
*	CHASKA FIRE DEPARTMENT	285 ENGLER BLVD	CHASKA	55318
	CHATFIELD FIRE DEPT	322 MAIN ST SOUTH	CHATFIELD	55923
*	CHERRY TWP FIRE DEPT	10192 HWY 92	MOUNTAIN IRON	55768
*	CHISAGO CITY FIRE DEPT	BOX F	CHISAGO CITY	55013
*	CHISHOLM FIRE DEPARTMENT	316 W LAKE STREET	CHISHOLM	55719
*	CHOKIO FIRE DEPARTMENT		CHOKIO	56221
	CLARA CITY FIRE DEPT	215 FIRST ST NW, PO BX 190	CLARA CITY	56222
*	CLAREMONT FIRE DEPT	BOX D	CLAREMONT	55924
	CLARISSA FIRE DEPARTMENT	P O BOX 396	CLARISSA	56440
*	CLARKFIELD FIRE DEPT	MUNICIPL BLDG, 904 10TH AV	CLARKFIELD	56223
*	CLARKS GROVE VOL FIRE DEPT	BOX 163	CLARKS GROVE	56016
*	CLEAR LAKE FIRE DEPT	309 MILL STREET, PO BX 298	CLEAR LAKE	55319
	CLEARBROOK FIRE DEPT	P O BOX 306	CLEARBROOK	56634
*	CLEARWATER FIRE DEPT	BOX 127	CLEARWATER	55320
*	CLEMENTS FIRE DEPT	C/O CITY CLERK OFFICE, PO BOX 17	CLEMENTS	56224
	CLEVELAND FIRE DEPT	PO BOX 57	CLEVELAND	56017
*	CLIFTON TWP FIRE DEPT	6092 HOMESTEAD RD	DULUTH	55804
	CLIMAX FIRE DEPARTMENT	107 W BROADWAY, PO BX 216	CLIMAX	56523
	CLINTON FIRE DEPARTMENT	P O BOX 280	CLINTON	56225
	CLINTON VOL. FIRE DEPT	3858 HWY 7	IRON	55751
	CLONTARF FIRE DEPARTMENT	BOX 267	CLONTARF	56226
*	CLOQUET FIRE DEPARTMENT	508 CLOQUET AVE	CLOQUET	55720
*	COHASSET FIRE DEPT	PO BOX 242	COHASSET	55721
	COKATO FIRE DEPARTMENT	P O BOX 1030	COKATO	55321

	FIREFIGHTING FOAM SURVEY MAILING LIST			
	DEPARTMENT	**ADDRESS**	**CITY**	**ZIP**
*	COLD SPRING FIRE DEPT	27 RED RIVER AVE S	COLD SPRING	56320
	COLERAINE FIRE DEPT	100 ROOSEVELT, PO BX 670	COLERAINE	55722
	COLOGNE FIRE DEPARTMENT	110 LOUIS ST, PO BOX 88	COLOGNE	55322
	COLUMBIA HEIGHTS FIRE DEPT	555 MILL ST NE	COLUMBIA HEIGHTS	55421
*	COLVILL AREA VOL FIRE DEPT	101 COUNTY ROAD 14	GRAND MARAIS	55604
	COLVIN TWP FIRE DEPT	2577 VERMILION TRAIL	MAKINEN	55763
*	COMFREY FIRE DEPARTMENT	PO BX 55, 120 E BROWN ST	COMFREY	56019
	CONGER FIRE DEPARTMENT	BOX 421	CONGER	56020
	COOK FIRE DEPARTMENT	127 S RIVER ST, PO BX 155	COOK	55723
*	COON RAPIDS FIRE DEPT	11155 ROBINSON DRIVE	COON RAPIDS	55433
	CORRELL FIRE DEPARTMENT	119 HWY 7 E, PO BOX 127	CORRELL	56227
*	COSMOS FIRE DEPT	BX 188, 206 GEMINI AV E	COSMOS	56228
*	COTTAGE GROVE FIRE DEPT	8641 80TH ST S	COTTAGE GROVE	55016
	COTTON VOL FIRE DEPT	6844 BUG CREEK RD	COTTON	55724
*	COTTONWOOD FIRE DEPT	PO BOX 427	COTTONWOOD	56229
	COURTLAND FIRE DEPT	PO BOX 41	COURTLAND	56021
	CRANE LAKE FIRE DEPT	P O BOX 407	CRANE LAKE	55725
*	CROMWELL VOL FIRE DEPT	BOX 44	CROMWELL	55726
	CROOKED LAKE VOL FIRE DEPT	P O BOX 44	OUTING	56662
	CROOKSTON FIRE DEPT	620 S MAIN	CROOKSTON	56716
*	CROSBY VOL FIRE DEPT	PO BOX 6	CROSBY	56441
*	CROSSLAKE FIRE DEPT	37028 COUNTY RD 66	CROSSLAKE	56442
*	CULVER FIRE DEPARTMENT	5571 HWY 31	CULVER	55727
	CURRIE VOL FIRE DEPT	BOX 75	CURRIE	56123
*	CUYUNA FIRE DEPARTMENT	24124 CO RD 30, PO BX 550	AITKIN	56431
	CYRUS FIRE DEPARTMENT	PO BX 36, 113 E MAIN ST	CYRUS	56323
	DAKOTA FIRE DEPARTMENT	P O BOX 417	DAKOTA	55925
	DALBO FIRE DEPARTMENT	37882 HWY 47 NW, PO BOX 60	DALBO	55017
*	DALTON FIRE DEPARTMENT		DALTON	56324
	DANUBE FIRE DEPARTMENT	BOX 162	DANUBE	56230
	DANVERS FIRE DEPARTMENT	ONE BANK PLAZA	DANVERS	56231
*	DARFUR FIRE DEPARTMENT	RR 1 BOX 105	BUTTERFIELD	56120
*	DASSEL FIRE DEPARTMENT	P O BOX 56	DASSEL	55325
	DAWSON FIRE DEPARTMENT	P O BOX 9	DAWSON	56232
	DAYTON FIRE DEPARTMENT	P O BOX 155	DAYTON	55327
*	DEER CREEK FIRE DEPT	PO BOX 161	DEER CREEK	56527
	DEER RIVER FIRE DEPT	BOX 312	DEER RIVER	56636
*	DEERWOOD FIRE DEPT	104 CROSS RD, PO BX 310	DEERWOOD	56444
	DEGRAFF FIRE DEPARTMENT	101 4TH STREET S.	DEGRAFF	56271
	DELANO VOL FIRE DEPT	245 N 2ND ST, PO BX 108	DELANO	55328
*	DELAVAN VOL FIRE DEPT	100 S MAIN STREET	DELAVAN	56023
	DENT FIRE DEPARTMENT		DENT	56528
	DETROIT LAKES FIRE DEPT	PO BX 647, 1025 ROOSEVELT AV	DETROIT LAKES	56502
*	DEXTER VOL FIRE DEPT	BOX 148	DEXTER	55926
*	DILWORTH FIRE DEPT	PO BX 187, 709 1ST AV NW	DILWORTH	56529
	DODGE CENTER FIRE DEPT	BOX 369	DODGE CENTER	55927
	DONNELLY FIRE DEPT	BOX 81	DONNELLY	56235
*	DOVER FIRE DEPARTMENT	PO BOX 65	DOVER	55929
	DOVRAY FIRE DEPARTMENT	PO BX 72, 310 WOODMAN AVE	DOVRAY	56125
	DULUTH FIRE DEPARTMENT	602 W 2ND ST	DULUTH	55802
	DUMONT FIRE DEPARTMENT	BOX 96	DUMONT	56236
	DUNDEE FIRE DEPARTMENT	100 N CARPENTER ST	DUNDEE	56131
*	DUNNELL-LAKE FREMONT FIRE DEPT	P O BOX 216	DUNNELL	56127
	DUXBURY FIRE DEPARTMENT	61195 McCULLEN DRIVE	SANDSTONE	55072
*	EAGAN FIRE DEPARTMENT	3795 PILOT KNOB RD	EAGAN	55122
	EAGLE BEND FIRE DEPT	P O BOX 336	EAGLE BEND	56446
*	EAGLE LAKE VOL FIRE DEPT	101 PLAINVIEW	EAGLE LAKE	56024
	EAGLES NEST FIRE DEPT	1552 BEAR HEAD ST PK RD	ELY	55731
	EAST BETHEL FIRE DEPT	2241 221ST AVE NE	CEDAR	55011
*	EAST GRAND FORKS FIRE DEPT	415 4TH STREET NW	EAST GRAND FORKS	56721
	EAST HUBBARD CTY FIRE PROTECTION DISTRICT	PO BOX 214	AKELEY	56433
*	EASTON VOL FIRE DEPT	P O BOX 94	EASTON	56025
*	ECHO FIRE DEPARTMENT	RR 1, BOX 204	ECHO	56237
*	EDEN PRAIRIE FIRE DEPT	14800 SCENIC HEIGHTS RD	EDEN PRAIRIE	55344
*	EDEN VALLEY FIRE DEPT	171 COUSART AVE, PO BOX 67	EDEN VALLEY	55329
	EDGERTON FIRE DEPT		EDGERTON	56128
*	EDINA FIRE DEPARTMENT	6250 TRACY AVE S	EDINA	55436
	EITZEN FIRE DEPARTMENT	PO BOX 393	EITZEN	55931
	ELBOW LAKE FIRE DEPT	P O BOX 464	ELBOW LAKE	56531
*	ELBOW-TULABY LAKES FIRE DEPT	39828 STATE HWY 113	WAUBUN	56589
	ELGIN FIRE DEPARTMENT	135 E MAIN ST	ELGIN	55932
*	ELIZABETH FIRE DEPT	BOX 805	ELIZABETH	56533
*	ELK RIVER FIRE DEPT	415 JACKSON AVE	ELK RIVER	55330
	ELLENDALE VOL FIRE DEPT	PO BOX 97	ELLENDALE	56026
*	ELLSBURG VOL FIRE DEPT	1102 MINK RD	COTTON	55724
	ELLSWORTH FIRE DEPT	306 N MAPLE, PO BX 177	ELLSWORTH	56129

	FIREFIGHTING FOAM SURVEY MAILING LIST			
	DEPARTMENT	**ADDRESS**	**CITY**	**ZIP**
*	ELMER FIRE DEPARTMENT	7882 ELMER ROAD	MEADOWLANDS	55765
	ELMORE FIRE DEPARTMENT	PO BX 56, 202 S HWY 69	ELMORE	56027
*	ELROSA FIRE DEPARTMENT	PO BX 160, 103 STATE ST	ELROSA	56325
*	ELY FIRE DEPARTMENT	209 E CHAPMAN ST	ELY	55731
	ELYSIAN FIRE DEPARTMENT	BOX 9	ELYSIAN	56028
	EMBARRASS VOL FIRE DEPT	4868 HWY 21	EMBARRASS	55732
*	EMILY VOLUNTEER FIRE DEPT	42145 BIRCHWOOD DRIVE	EMILY	56447
*	EMMONS FIRE DEPARTMENT	P O BOX 21	EMMONS	56029
	ERSKINE FIRE DEPARTMENT	PO BX 213, 102 GRANT AV	ERSKINE	56535
*	EVANSVILLE FIRE DEPT	PO BOX 367	EVANSVILLE	56326
*	EVELETH FIRE DEPARTMENT	413 PIERCE ST	EVELETH	55734
	EVERGREEN FIRE DEPT	10233 HWY 65	BRITT	55710
*	EXCELSIOR FIRE DEPT	24100 SMITHTOWN ROAD	SHOREWOOD	55331
	EYOTA VOL FIRE DEPT.	PO BOX 915	EYOTA	55934
	FAIRFAX FIRE DEPARTMENT	BOX 156	FAIRFAX	55332
*	FAIRMONT FIRE DEPARTMENT	PO BOX 386	FAIRMONT	56031
*	FALCON HEIGHTS FIRE DEPT	2077 W LARPENTEUR	FALCON HEIGHTS	55113
	FARIBAULT FIRE DEPARTMENT	122 NW SECOND ST	FARIBAULT	55021
	FARMINGTON FIRE DEPT	325 OAK ST	FARMINGTON	55024
	FAYAL FIRE DEPARTMENT	4375 SHADY LN	EVELETH	55734
	FEDERAL DAM FIRE DEPT	218 PINE STREET	FEDERAL DAM	56641
*	FELTON COMMUNITY FIRE DEPT.	BOX 561	FELTON	56536
	FERGUS FALLS FIRE DEPT	325 E WASHINGTON	FERGUS FALLS	56537
	FERTILE FIRE DEPARTMENT	PO BX 142, 10 E MAIN	FERTILE	56540
	FIFTY LAKES FIRE DEPT	PO BOX 127	FIFTY LAKES	56448
*	FINLAND FIRE DEPARTMENT	BOX 556	FINLAND	55603
	FINLAYSON FIRE DEPT	2208 FINLAND AVE	FINLAYSON	55735
*	FISHER FIRE DEPARTMENT	P O BOX 167	FISHER	56723
	FLENSBURG FIRE DEPT	53 MAIN ST, PO BOX 5	FLENSBURG	56328
*	FLOODWOOD FIRE DEPT	BOX 348	FLOODWOOD	55736
	FOLEY FIRE DEPARTMENT	BOX 709	FOLEY	56329
	FORADA FIRE DEPARTMENT	1490 CR 4 SE	ALEXANDRIA	56308
	FOREST LAKE FIRE DEPT	220 N LAKE ST	FOREST LAKE	55025
*	FORESTON FIRE DEPART	176 DE CAMP ST	FORESTON	56330
*	FOSSTON FIRE DEPARTMENT	114 N KAISER AVE	FOSSTON	56542
*	FOUNTAIN FIRE DEPARTMENT	BOX 118	FOUNTAIN	55935
	FOXHOME FIRE DEPARTMENT	BOX 54	FOXHOME	56543
	FRANKLIN FIRE DEPARTMENT	BOX 279	FRANKLIN	55333
	FRAZEE FIRE DEPARTMENT	PO BOX 413	FRAZEE	56544
	FREDENBERG FIRE DEPT	6846 BERGSTRAND RD	DULUTH	55803
	FREEBORN FIRE DEPT	402 PARK ST,PO BX 98	FREEBORN	56032
*	FREEPORT FIRE DEPT	BOX 151	FREEPORT	56331
*	FRENCH TWP VOL FIRE DEPT	P O BOX 41	SIDE LAKE	55781
*	FRIDLEY FIRE DEPARTMENT	6431 UNIVERSITY AVE NE	FRIDLEY	55432
	FROST FIRE DEPARTMENT	BOX 457	FROST	56033
	FULDA FIRE DEPARTMENT	PO BOX 9	FULDA	56131
*	GARFIELD FIRE DEPARTMENT	PO BX 24	GARFIELD	56332
	GARRISON FIRE DEPARTMENT	P O BOX 367	GARRISON	56450
	GARVIN FIRE DEPARTMENT	PO BOX 4	GARVIN	56132
	GARY VOL FIRE DEPARTMENT	206 3RD ST	GARY	56545
*	GAYLORD FIRE DEPARTMENT	BOX 685	GAYLORD	55334
*	GENEVA FIRE DEPARTMENT	PO BOX 26	GENEVA	56035
	GHENT FIRE DEPARTMENT	109 N CHAPMAN ST, PO BOX 253	GHENT	56239
*	GIBBON FIRE DEPARTMENT	P O BOX 73	GIBBON	55335
	GILBERT FIRE DEPARTMENT	PO BOX 878	GILBERT	55741
	GLENCOE FIRE DEPARTMENT	509 10TH ST E	GLENCOE	55336
*	GLENVILLE FIRE DEPARTMENT		GLENVILLE	56036
*	GLENWOOD FIRE DEPT	137 E MINNESOTA AVE	GLENWOOD	56334
	GLYNDON VOL FIRE DEPT	508 STATE ST NE, PO BX 68	GLYNDON	56547
	GNESEN VOL FIRE DEPT	4504 DATKA ROAD	DULUTH	55803
*	GOLDEN VALLEY FIRE DEPT	7800 GOLDEN VALLEY RD	GOLDEN VALLEY	55427
	GONVICK FIRE DEPARTMENT	P O BOX 202	GONVICK	56644
	GOOD THUNDER FIRE DEPT	BOX 345	GOOD THUNDER	56037
	GOODHUE FIRE DEPT	706 3RD AVE	GOODHUE	55027
*	GOODLAND FIRE DEPT	P O BOX 1	GOODLAND	55742
*	GOODRIDGE AREA FIRE DEPT	P O BOX 162, 205 VAUGHN ST	GOODRIDGE	56725
	GOODVIEW FIRE DEPT	4135 W 5TH ST	WINONA	55987
*	GRACEVILLE FIRE DEPT	BOX 644	GRACEVILLE	56240
	GRANADA FIRE DEPARTMENT	PO BOX 133	GRANADA	56039
	GRAND LAKE VOL FIRE DEPT	PO BOX 1083	TWIG	55791
	GRAND MARAIS VOL FIRE DEPT	P O BOX 600	GRAND MARAIS	55604
	GRAND MEADOW FIRE DEPT	PO BOX 511	GRAND MEADOW	55936
	GRAND PORTAGE FIRE DEPT		GRAND PORTAGE	55605
*	GRAND RAPIDS FIRE DEPT	18 NE 5TH ST	GRAND RAPIDS	55744
	GRANITE FALLS FIRE DEPT	PO BOX 201	GRANITE FALLS	56241
	GREANEY-RAUCH-SILVERDALE FIRE DEPT	2436 HALVORSON RD	GHEEN	55771

	FIREFIGHTING FOAM SURVEY MAILING LIST			
	DEPARTMENT	**ADDRESS**	**CITY**	**ZIP**
*	GREEN ISLE FIRE DEPARTMENT	390 PARNELL ST, PO BX 235	GREEN ISLE	55338
*	GREENBUSH FIRE DEPT	P O BOX 98	GREENBUSH	56726
	GREENWOOD TWP VOL FIRE DEPT	4560 BRADLEY RD	TOWER	55790
*	GREY EAGLE FIRE DEPT	202 S WOODMEN ST	GREY EAGLE	56336
*	GROVE CITY FIRE DEPT	BOX 207	GROVE CITY	56243
	GRYGLA FIRE DEPARTMENT	BOX 136	GRYGLA	56727
*	GUNFLINT TRAIL VOL. FIRE DEPT.	468 CLEARWATER RD	GRAND MARAIS	55604
*	HACKENSACK AREA FIRE DEPT	231 1ST ST N	HACKENSACK	56452
	HALLOCK FIRE DEPARTMENT	BOX 847	HALLOCK	56728
	HALSTAD FIRE DEPARTMENT	P O BOX 176	HALSTAD	56548
*	HAM LAKE FIRE DEPARTMENT	15544 CENTRAL AVE NE	HAM LAKE	55304
*	HAMBURG FIRE DEPARTMENT	181 BROADWAY AVE	HAMBURG	55339
*	HAMEL FIRE DEPARTMENT	92 HAMEL RD	HAMEL	55340
	HANCOCK FIRE DEPARTMENT	662 6TH ST	HANCOCK	56244
*	HANGAARD TWP FIRE DEPT	12156 590TH ST	GONVICK	56644
	HANLEY FALLS FIRE DEPT	PO BOX 57	HANLEY FALLS	56245
	HANOVER FIRE DEPARTMENT	HANOVER CITY HLL, PO BX 278	HANOVER	55341
	HANSKA FIRE DEPARTMENT	BOX 227	HANSKA	56041
*	HARDWICK FIRE DEPARTMENT	RR 1	HARDWICK	56134
*	HARMONY FIRE DEPARTMENT	PO BOX 344	HARMONY	55939
	HARRIS FIRE DEPARTMENT	PO BOX 111	HARRIS	55032
*	HARTLAND FIRE DEPARTMENT	407 S BROADWAY ST, PO BOX 487	HARTLAND	56042
*	HASTINGS FIRE DEPARTMENT	115 W 5TH ST	HASTINGS	55033
*	HAWLEY FIRE DEPARTMENT	PO BOX 981	HAWLEY	56549
	HAYFIELD FIRE DEPARTMENT	BOX 493	HAYFIELD	55940
*	HAYWARD FIRE DEPARTMENT	P O BOX 493	HAYWARD	56043
	HECTOR FIRE DEPARTMENT	621 S MAIN ST, PO BX 284	HECTOR	55342
	HENDERSON FIRE DEPT	P O BOX 85	HENDERSON	56044
	HENDRICKS FIRE DEPT	BOX 82	HENDRICKS	56136
	HENDRUM FIRE DEPARTMENT	PO BX 100, 308 MAIN ST E	HENDRUM	56550
	HENNING VOL FIRE DEPT	607 2ND ST	HENNING	56551
*	HERMAN VOL FIRE DEPT	PO BOX 203	HERMAN	56248
	HERMANTOWN VOL FIRE DEPT	5255 MAPLE GROVE RD	HERMANTOWN	55811
	HERON LAKE VOL FIRE DEPT	PO BOX 282	HERON LAKE	56137
*	HEWITT FIRE DEPARTMENT	P O BOX 164	HEWITT	56453
*	HIBBING FIRE DEPARTMENT	2320 BROOKLYN DR	HIBBING	55746
	HIDDEN VALLEY FIRE DEPT	23 HIDDEN VALLEY RD	MINNESOTA CITY	55959
*	HILL CITY FIRE DEPARTMENT	PO BX 168, 111 HENRIETTA AV SW	HILL CITY	55748
*	HILLS FIRE DEPARTMENT	PO BOX 141	HILLS	56138
*	HINCKLEY VOL FIRE DEPT	PO BOX 309	HINCKLEY	55037
*	HITTERDAL FIRE DEPARTMENT	219 WEST FRONT	HITTERDAL	56552
	HOFFMAN FIRE DEPARTMENT	110 1ST N, BOX 31	HOFFMAN	56339
	HOKAH VOL FIRE DEPT	BOX 312	HOKAH	55941
*	HOLDINGFORD FIRE DEPT	P O BOX 60	HOLDINGFORD	56340
*	HOLLAND FIRE DEPARTMENT	1318 161ST STREET	HOLLAND	56139
*	HOLLANDALE FIRE DEPT	P O BOX 122	HOLLANDALE	56045
*	HOPKINS FIRE DEPARTMENT	1010 1ST ST S	HOPKINS	55343
	HOUSTON FIRE DEPARTMENT	105 W MAPLE ST	HOUSTON	55943
*	HOVLAND FIRE DEPARTMENT	P O BOX 484	HOVLAND	55606
	HOWARD LAKE FIRE DEPT	BOX 309	HOWARD LAKE	55349
*	HOYT LAKES FIRE DEPT	CITY HALL	HOYT LAKES	55750
*	HUGO FIRE DEPARTMENT	5323 140TH ST N	HUGO	55038
*	HUTCHINSON FIRE DEPT	205 3RD AVE SE	HUTCHINSON	55350
*	IDEAL TWP FIRE DEPT	8890 RUTTGER RD	PEQUOT LAKES	56472
*	INDUSTRIAL VOL FIRE DEPT	7519 ALBERT RD	SAGINAW	55779
	INTERNATIONAL FALLS FIRE DEPT	600 FOURTH STREET	INTERNATIONAL FALLS	56649
	INVER GROVE HEIGHTS FIRE DEPT	7015 CLAYTON AVENUE E	INVER GROVE HTS	55076
	IONA FIRE DEPARTMENT	PO BOX 114	IONA	56141
	IRONTON FIRE DEPARTMENT	607 6TH AVE SW	IRONTON	56455
	ISANTI FIRE DISTRICT	401 - 1ST AVE N	ISANTI	55040
*	ISLE FIRE DEPARTMENT	PO BOX 427	ISLE	56342
*	ITASCA TWP VOL FIRE DEPT	RT 2, BOX 344	SHEVLIN	56676
	IVANHOE FIRE DEPARTMENT	PO BOX 10	IVANHOE	56142
*	JACKSON FIRE DEPARTMENT	305 SHERIDAN ST,PO BX 242	JACKSON	56143
	JACOBSON FIRE DEPT	PO BOX 603	JACOBSON	55752
	JANESVILLE FIRE DEPT	PO BX 0, 101 N MOTT ST	JANESVILLE	56048
*	JASPER FIRE DEPARTMENT	RR 2, BOX 213	JASPER	56144
*	JEFFERS FIRE DEPARTMENT	P O BOX 198	JEFFERS	56145
	JORDAN FIRE DEPARTMENT	210 E 1ST ST	JORDAN	55352
*	KABETOGAMA FIRE DEPT	9843 GAMMA RD	RAY	56669
	KANDIYOHI FIRE DEPARTMENT	PO BOX 142	KANDIYOHI	56251
	KARLSTAD VOL FIRE DEPT	P O BOX 299	KARLSTAD	56732
	KASOTA FIRE DEPARTMENT	200 N WEBSTER	KASOTA	56050
*	KASSON FIRE DEPARTMENT	19 E MAIN ST, PO BX 85	KASSON	55944
	KEEWATIN VOL FIRE DEPT	PO BOX 134	KEEWATIN	55753
	KELLIHER VOL FIRE DEPT		KELLIHER	56650

	FIREFIGHTING FOAM SURVEY MAILING LIST			
	DEPARTMENT	**ADDRESS**	**CITY**	**ZIP**
	KELLOGG FIRE DEPARTMENT	PO BOX 98	KELLOGG	55945
*	KELSEY VOL FIRE DEPT	9159 OAK RD	KELSEY	55724
	KENNEDY FIRE DEPARTMENT	BX 228, 101 N ATLANTIC AV	KENNEDY	56733
	KENNETH VOL FIRE DEPT	RR 1	KENNETH	56147
	KENSINGTON FIRE DEPT	BOX 196	KENSINGTON	56343
	KENYON FIRE DEPARTMENT	PO BOX 6	KENYON	55946
*	KERKHOVEN FIRE DEPT	202 N 9TH ST, BOX 116	KERKHOVEN	56252
	KERRICK FIRE DEPARTMENT	BOX 31	KERRICK	55756
*	KETTLE RIVER FIRE DEPT	CITY HALL, 3977 MAIN STREET	KETTLE RIVER	55757
*	KIESTER FIRE DEPARTMENT		KIESTER	56051
	KILKENNY FIRE DEPARTMENT	P O BOX 116	KILKENNY	56052
	KIMBALL FIRE DEPARTMENT	BOX 121	KIMBALL	55353
*	KINNEY-GREAT SCOTT FIRE DEPT	BOX 337, MAIN ST	KINNEY	55758
*	LACRESCENT FIRE DEPT	315 MAIN ST, PO BX 142	LACRESCENT	55947
	LAFAYETTE FIRE DEPT	P O BOX 62	LAFAYETTE	56054
	LAKE BENTON FIRE DT	BOX 82, 110 E BENTON	LAKE BENTON	56149
	LAKE BRONSON FIRE DEPT	PO BOX 97	LAKE BRONSON	56734
	LAKE CITY FIRE DEPARTMENT	208 S HIGH ST	LAKE CITY	55041
	LAKE CRYSTAL FIRE DEPT	P O BOX 528	LAKE CRYSTAL	56055
*	LAKE ELMO FIRE DEPT	3800 LAVERNE	LAKE ELMO	55042
	LAKE GEORGE FIRE DEPT	BOX 1635	LAKE GEORGE	56458
	LAKE HENRY FIRE DEPT	32953 CARTWAY DRIVE	PAYNESVILLE	56362
	LAKE JOHANNA VOL FIRE DEPT	5545 LEXINGTON AVE N	SHOREVIEW	55126
	LAKE LILLIAN FIRE DEPT	111 SECOND ST	LAKE LILLIAN	56253
	LAKE PARK FIRE DEPT	PO BOX 239	LAKE PARK	56554
	LAKE WILSON FIRE DEPT	BOX 163	LAKE WILSON	56151
*	LAKEFIELD FIRE DEPARTMENT	P O BOX 127	LAKEFIELD	56150
	LAKELAND VOL FIRE DEPT	4667 VERMILION TRAIL	GILBERT	55741
	LAKEPORT FIRE DEPARTMENT	30056 354TH ST	LAPORTE	56461
	LAKEVILLE FIRE DEPARTMENT	20190 HOLYOKE AVE W	LAKEVILLE	55044
*	LAKEWOOD TWP FIRE DEPT	2627 CENTERLINE ROAD	DULUTH	55804
	LAMBERTON FIRE DEPT	PO BOX 457	LAMBERTON	56152
	LANCASTER FIRE DEPT	302 3RD ST E,RR 1,BX 42A	LANCASTER	56735
*	LANESBORO FIRE DEPT	BOX 210	LANESBORO	55949
*	LASALLE FIRE DEPARTMENT	P O BOX 151	LA SALLE	56056
*	LE CENTER FIRE DEPT	PO BOX 45	LE CENTER	56057
	LE ROY FIRE DEPARTMENT	P O BOX 296	LE ROY	55951
*	LEAF VALLEY TWP FIRE DEPT	c/o KALPIN, 3661 LUCKY LN NW	MILTONA	56354
	LESTER PRAIRIE FIRE DEPT	P O BOX 146	LESTER PRAIRIE	55354
*	LESUEUR FIRE DEPARTMENT	203 S 2ND ST, PO BX 176	LESUEUR	56058
*	LEWISTON FIRE DEPARTMENT	PO BOX 636	LEWISTON	55952
	LEWISVILLE FIRE DEPT	P O BOX 334	LEWISVILLE	56060
*	LEXINGTON FIRE DEPARTMENT	9180 LEXINGTON AVE	LEXINGTON	55014
	LINDSTROM FIRE DEPT	PO BOX 501	LINDSTROM	55045
*	LINWOOD VOL FIRE DEPT	22817 TYPO CK DR NE	STACY	55079
*	LISMORE FIRE DEPARTMENT	P O BOX 188	LISMORE	56155
	LITCHFIELD FIRE DEPARTMENT	227 N RAMSEY	LITCHFIELD	55355
*	LITTLE CANADA FIRE DEPT	325 E LITTLE CANADA RD	LITTLE CANADA	55117
*	LITTLE FALLS FIRE DEPT	314 1ST ST NE	LITTLE FALLS	56345
*	LITTLEFORK FIRE DEPT	PO BOX 387	LITTLEFORK	56653
*	LOMAN RURAL FIRE DEPT	P O BOX 256	LOMAN	56654
	LONDON FIRE DEPARTMENT	11768 JAMES STREET	LONDON	56036
	LONG LAKE FIRE DEPT	1964 PARK AV, PO BX 606	LONG LAKE	55356
*	LONG PRAIRIE FIRE DEPT	615 LAKE ST S	LONG PRAIRIE	56347
*	LONGVILLE VOL FIRE DEPT	BOX 216	LONGVILLE	56655
*	LONSDALE FIRE DEPARTMENT	PO BX 329, 426 CO RD 4	LONSDALE	55046
*	LORETTO VOL FIRE DEPT	259 N MEDINA ST, BX 22	LORETTO	55357
*	LOUISBURG FIRE DEPT	RR 1, BOX 468	LOUISBURG	56256
	LOWER ST CROIX VALLEY FIRE DEPT	PO BOX 234	LAKELAND	55043
*	LOWRY FIRE DEPARTMENT	PO BOX 131	LOWRY	56349
	LUCAN FIRE DEPARTMENT	BOX 156	LUCAN	56255
*	LUTSEN TWP VOL FIRE DEPT	P O BOX 151	LUTSEN	55612
	LUVERNE FIRE DEPARTMENT	PO BOX 659	LUVERNE	56156
*	LYLE FIRE DEPARTMENT	PO BOX 64	LYLE	55953
	LYND FIRE DEPARTMENT	PO BOX 177	LYND	56157
	MABEL VOL FIRE DEPT		MABEL	55954
*	MADELIA FIRE DEPARTMENT	120 W MAIN ST	MADELIA	56062
	MADISON FIRE DEPARTMENT	404 6TH AVE	MADISON	56256
	MADISON LAKE FIRE DEPT	525 MAIN ST, PO BOX 295	MADISON LAKE	56063
	MAGNOLIA FIRE DEPARTMENT	P O BOX 98	MAGNOLIA	56158
*	MAHNOMEN FIRE DEPT	PO BOX 250	MAHNOMEN	56557
*	MAHTOMEDI FIRE DEPT	600 STILLWATER RD	MAHTOMEDI	55115
*	MAHTOWA FIRE DEPARTMENT	PO BOX 963	MAHTOWA	55707
*	MAKINEN FIRE DEPARTMENT	PO BOX 395	MAKINEN	55763
	MANCHESTER FIRE DEPT	PO BOX 2	MANCHESTER	56064
*	MANKATO FIRE DEPARTMENT	710 FRONT ST	MANKATO	56001

	FIREFIGHTING FOAM SURVEY MAILING LIST			
	DEPARTMENT	**ADDRESS**	**CITY**	**ZIP**
	MANTORVILLE FIRE DEPT	BOX 355	MANTORVILLE	55955
*	MAPLE GROVE FIRE DEPT	12800 ARBOR LKS PKWY,PO BX 1180	MAPLE GROVE	55311
*	MAPLE HILL FIRE DEPT	1469 GUNFLINT TRAIL	GRAND MARAIS	55604
	MAPLE LAKE FIRE DEPT	P O BOX 331	MAPLE LAKE	55358
	MAPLE PLAIN FIRE DEPT	P O BOX 97	MAPLE PLAIN	55359
	MAPLETON FIRE DEPARTMENT		MAPLETON	56065
	MAPLEVIEW FIRE DEPT	101 MAPLE	MAPLEVIEW	55912
	MAPLEWOOD FIRE DEPT	1955 CLARENCE STREET	MAPLEWOOD	55109
*	MARBLE FIRE DEPARTMENT	BOX 255	MARBLE	55764
	MARIETTA FIRE DEPARTMENT	PO BOX 113	MARIETTA	56257
*	MARINE ON ST CROIX FIRE DEPT	BOX 250	MARINE ON ST CRX	55047
*	MARSHALL FIRE DEPARTMENT	PO BX 1232, 201 E SARATOGA	MARSHALL	56258
*	MAYER FIRE DEPARTMENT	PO BOX 102	MAYER	55360
*	MAYNARD FIRE DEPARTMENT	PO BOX 154	MAYNARD	56260
*	MAZEPPA VOL FIRE DEPT	PO BOX 73	MAZEPPA	55956
	MC DAVITT FIRE DEPARTMENT	ROUTE 1	ZIM	55738
	MC GREGOR VOL FIRE DEPT	BOX 24	MC GREGOR	55760
*	MC KINLEY VOL FIRE DEPT	PO BOX D	MC KINLEY	55761
	MCGRATH FIRE DEPARTMENT	209 MAIN STREET	MCGRATH	56350
	MCINTOSH FIRE DEPARTMENT	PO BX 356, 100 2ND ST SW	MCINTOSH	56556
*	MEADOWLANDS AREA VOL FIRE DEPT	9945 HWY 133, PO BX 146	MEADOWLANDS	55765
	MEDFORD VOL FIRE DEPT	PO BX 206, 408 2ND AV SE	MEDFORD	55049
*	MEDICINE LAKE FIRE DEPT	2 KAISER AVE	MEDICINE LAKE	55441
*	MELROSE FIRE DEPARTMENT	225 E 1ST STREET N	MELROSE	56352
*	MENAHGA FIRE DEPARTMENT	P O BOX C	MENAHGA	56464
	MENDOTA HEIGHTS FIRE DEPT.	1101 VICTORIA CURVE	MENDOTA HEIGHTS	55118
	MENTOR FIRE DEPARTMENT	PO BX 155, 202 LINCOLN AV N	MENTOR	56736
*	MIDDLE RIVER FIRE DEPT	BOX 2	MIDDLE RIVER	56737
	MIESVILLE VOL FIRE DEPT	14115 240TH ST E	CANNON FALLS	55009
	MILACA FIRE DEPARTMENT	255 FIRST STREET E	MILACA	56353
*	MILAN FIRE DEPARTMENT	P O BOX 163	MILAN	56262
*	MILLERVILLE FIRE DEPT	16560 COUNTY RD 156 NW	BRANDON	56315
	MILROY FIRE DEPARTMENT	P O BOX 9	MILROY	56263
	MILTONA FIRE DEPARTMENT	PO BOX 195	MILTONA	56354
*	MINNEAPOLIS FIRE DEPT	RM 230 CITY HALL	MINNEAPOLIS	55415
*	MINNEOTA FIRE DEPARTMENT	P O BOX 356	MINNEOTA	56264
*	MINNESOTA CITY FIRE DEPT	PO BOX 71	MINNESOTA CITY	55959
	MINNESOTA LAKE FIRE DEPT	RR 1, BOX 30	MINNESOTA LAKE	56068
*	MINNETONKA FIRE DEPT	14550 MINNETONKA BLVD	MINNETONKA	55345
*	MISSION TWP FIRE DEPT	STAR RT, PO BX 327	MERRIFIELD	56465
*	MONTEVIDEO FIRE DEPT	P O BOX 517	MONTEVIDEO	56265
*	MONTGOMERY FIRE DEPT	201 ASH AVE W	MONTGOMERY	56069
	MONTICELLO FIRE DEPT	P O BOX 422	MONTICELLO	55362
*	MONTROSE FIRE DEPT	311 BUFFALO AV, PO BX 25	MONTROSE	55363
*	MOORHEAD FIRE DEPT	111 12TH ST N	MOORHEAD	56560
*	MOOSE LAKE FIRE DEPT	600 HWY 73	MOOSE LAKE	55767
	MORA FIRE DEPARTMENT	101 LAKE ST S	MORA	55051
*	MORGAN FIRE DEPARTMENT	BOX 27	MORGAN	56266
	MORRIS FIRE DEPARTMENT		MORRIS	56267
*	MORRISTOWN FIRE DEPT	PO BOX 362	MORRISTOWN	55052
	MORSE FALL LAKE FIRE DEPT.	PO BOX 660	ELY	55731
	MORTON FIRE DEPARTMENT	P O BOX 338	MORTON	56270
*	MOTLEY FIRE DEPARTMENT	PO BOX 66, 316 HWY 10 S	MOTLEY	56466
*	MOUND FIRE DEPARTMENT	2415 WILSHIRE BLVD	MOUND	55364
*	MOUNTAIN IRON FIRE DEPT	BOX 533	MOUNTAIN IRON	55768
	MOUNTAIN LAKE FIRE DEPT	PO BOX C	MOUNTAIN LAKE	56159
	MURDOCK FIRE DEPARTMENT	300 FREDRICK ST	MURDOCK	56271
*	MYRTLE FIRE DEPARTMENT		MYRTLE	56070
*	NASHWAUK FIRE DEPT	131 4TH ST	NASHWAUK	55769
*	NASSAU FIRE DEPARTMENT	MAIN STREET, BOX 191	NASSAU	56272
*	NERSTRAND VOL FIRE DEPT	402 OSMUNDSON COURT	NERSTRAND	55053
*	NEVIS FIRE DEPARTMENT	P O BOX 184	NEVIS	56467
	NEW AUBURN FIRE DEPT	BOX 86, 350-10TH ST	NEW AUBURN	55366
*	NEW BRIGHTON FIRE DEPT	785 OLD HWY 8 NW	NEW BRIGHTON	55112
	NEW GERMANY FIRE DEPT	300 BROADWAY ST	NEW GERMANY	55367
	NEW LONDON FIRE DEPT	PO BOX 335, MAIN ST	NEW LONDON	56273
	NEW MARKET FIRE DEPT	601 E MAIN ST, PO BX 99	NEW MARKET	55054
*	NEW MUNICH FIRE DEPT	BOX 27	NEW MUNICH	56356
*	NEW PRAGUE FIRE DEPT	P O BOX 202	NEW PRAGUE	56071
*	NEW RICHLAND FIRE DEPT	PO BOX 87	NEW RICHLAND	56072
	NEW SCANDIA FIRE DEPT	14800 OAKHILL RD N	SCANDIA	55073
*	NEW ULM FIRE DEPT	526 8TH ST N	NEW ULM	56073
*	NEW YORK MILLS FIRE DEPT	PO BOX 172	NEW YORK MILLS	56567
*	NEWFOLDEN FIRE DEPT	PO BOX 188	NEWFOLDEN	56738
*	NEWPORT FIRE DEPARTMENT	155 - 20TH ST	NEWPORT	55055
	NICOLLET FIRE DEPARTMENT	P O BOX 427	NICOLLET	56074

	FIREFIGHTING FOAM SURVEY MAILING LIST			
	DEPARTMENT	**ADDRESS**	**CITY**	**ZIP**
	NIELSVILLE FIRE DEPARTMENT		NIELSVILLE	56568
*	NISSWA FIRE DEPARTMENT	PO BOX 147	NISSWA	56468
	NODINE VOL FIRE DEPT	42774 CO RD 12	DAKOTA	55925
	NORMANNA VOL FIRE DEPT	3480 LADY NICOLE LANE	DULUTH	55803
	NORTH BRANCH FIRE DEPT	P O BOX 245	NORTH BRANCH	55056
*	NORTH MANKATO FIRE DEPT	PO BX 2055, 1001 BELGRADE AV	N MANKATO	56001
*	NORTH ST PAUL FIRE DEPT	2400 MARGARET STREET	NORTH ST PAUL	55109
	NORTH STAR TWP FIRE DEPT	7700 PEQUAYWAN LK RD	DULUTH	55803
	NORTHEAST SHERBURNE FIRE & RESCUE	12935 299TH AVE	PRINCETON	55371
*	NORTHFIELD FIRE DEPT	300 W 5TH ST	NORTHFIELD	55057
*	NORTHLAND FIRE DEPT	7271 HWY 53 S	CANYON	55717
	NORTHOME FIRE DEPT	PO BOX 65	NORTHOME	56661
*	NORTHROP FIRE DEPT	PO BOX 208	NORTHROP	56075
	NORTHWEST ANGLE FIRE DEPT	P O BOX 200	ANGLE INLET	56711
	NORWOOD-YOUNG AMERICA FIRE DEPT	PO BX 85, 327 W ELM ST	NORWOOD	55368
*	OAK GROVE FIRE DEPT	19900 NIGHTINGALE ST NW	OAK GROVE	55011
*	OAKDALE FIRE DEPARTMENT	6633 15TH ST N	OAKDALE	55128
*	ODESSA FIRE DEPARTMENT	PO BOX 121	ODESSA	56276
*	ODIN FIRE DEPARTMENT	P O BOX 33	ODIN	56160
	OGEMA FIRE DEPARTMENT	24225 350TH ST	OGEMA	56569
	OGILVIE FIRE DEPARTMENT	BOX 38	OGILVIE	56358
*	OKABENA FIRE DEPARTMENT	BOX 8	OKABENA	56161
	OKLEE FIRE DEPARTMENT	PO BX 190	OKLEE	56742
*	OLIVIA FIRE DEPARTMENT	1007 W LINCOLN	OLIVIA	56277
	ONAMIA FIRE DEPARTMENT	P O BOX 186	ONAMIA	56359
	ORMSBY FIRE DEPARTMENT	PO BOX 533	ORMSBY	56162
	ORONOCO FIRE DEPARTMENT	PO BOX 146	ORONOCO	55960
	ORR VOLUNTEER FIRE DEPT	PO BX 247, 4540 LAKE ST	ORR	55771
*	ORTONVILLE FIRE DEPT	BOX 324	ORTONVILLE	56278
	OSAKIS FIRE DEPARTMENT	P O BOX P	OSAKIS	56360
	OSLO FIRE DEPARTMENT	PO BOX 55	OSLO	56744
	OSSEO FIRE DEPARTMENT	415 CENTRAL AVE	OSSEO	55369
	OSTRANDER FIRE DEPT	PO BOX 51	OSTRANDER	55961
*	OTTERTAIL FIRE DEPARTMENT		OTTERTAIL	56571
	OWATONNA FIRE DEPT	107 W MAIN	OWATONNA	55060
*	PALISADE VOL FIRE DEPT	PO BOX 71	PALISADE	56469
*	PALO REGIONAL FIRE DEPT	4547 HWY 100	AURORA	55705
	PARK RAPIDS FIRE DEPT	BOX 73	PARK RAPIDS	56470
*	PARKERS PRAIRIE FIRE DEPT	PO BOX 70, 102 N OTTER AVE	PARKERS PRAIRIE	56361
*	PAYNESVILLE FIRE DEPT	BOX 34	PAYNESVILLE	56362
*	PELICAN RAPIDS VOLUNTEER FIRE DEPT	709 5TH STREET SE	PELICAN RAPIDS	56572
	PEMBERTON FIRE DEPT	PO BOX 7 OR 420 MAIN ST	PEMBERTON	56078
*	PENNOCK FIRE DEPARTMENT	P O BOX 265	PENNOCK	56279
	PEQUAYWAN LAKE AREA FIRE DEPT	8835 PEQUAYWAN LAKE RD	DULUTH	55803
*	PEQUOT LAKES FIRE DEPT	4638 COUNTY ROAD 11	PEQUOT LAKES	56472
*	PERCH LAKE VOL FIRE DEPT	2779 BIG LAKE RD	CLOQUET	55720
	PERHAM FIRE DEPARTMENT	525 WEST MAIN	PERHAM	56573
*	PERLEY-LEE TWP FIRE DEPT	PO BOX 432	PERLEY	56574
*	PICKWICK FIRE DEPARTMENT	24616 CO RD 7	WINONA	55987
*	PIERZ FIRE DEPARTMENT	P O BOX 340	PIERZ	56364
	PIKE-SANDY-BRITT FIRE DEPT	P O BOX 36	VIRGINIA	55792
*	PILLAGER AREA FIRE DEPT	P O BOX 208	PILLAGER	56473
*	PINE CITY FIRE DEPARTMENT	400 5TH STREET SE	PINE CITY	55063
	PINE ISLAND FIRE DEPT	PO BOX 489	PINE ISLAND	55963
*	PINE RIVER FIRE DEPT	P O BOX 444	PINE RIVER	56474
*	PIPESTONE FIRE DEPT	BX 474, 118 2ND AV NE	PIPESTONE	56164
*	PLAINVIEW FIRE DEPT	241 WEST BROADWAY	PLAINVIEW	55964
*	PLATO FIRE DEPARTMENT	PO BOX 147	PLATO	55370
	PLUMMER FIRE DEPARTMENT	BOX 25	PLUMMER	56748
	PLYMOUTH FIRE DEPARTMENT	3400 PLYMOUTH BLVD	PLYMOUTH	55447
*	PORTER FIRE DEPARTMENT	505 MAPLE, BOX 34	PORTER	56280
*	PRESTON FIRE DEPARTMENT	BOX 216	PRESTON	55965
	PRINCETON FIRE DEPT	206 LAGRANDE AVE	PRINCETON	55371
*	PRINSBURG FIRE DEPT	PO BOX 207	PRINSBURG	56281
*	PRIOR LAKE FIRE DEPT	16200 EAGLE CRK AV, PO BX 234	PRIOR LAKE	55372
*	PROCTOR FIRE DEPARTMENT	100 PIONK DRIVE	PROCTOR	55810
*	RAMSEY FIRE DEPARTMENT	7550 SUNWOOD DRIVE	RAMSEY	55303
*	RANDALL FIRE DEPARTMENT	105 MAPLEWOOD DR	RANDALL	56475
*	RANDOLPH-HAMPTON FIRE DEPT	4365 292ND ST E, PO BX 36	RANDOLPH	55065
	RAYMOND FIRE DEPARTMENT	PO BOX 196	RAYMOND	56282
	RED LAKE FALLS FIRE DEPT	PO BX 478	RED LAKE FALLS	56750
	RED LAKE-BUREAU OF INDIAN AFFAIRS FIRE DEPT	PO BOX 970	RED LAKE	56671
*	RED WING FIRE DEPARTMENT	420 PLUM ST	RED WING	55066
*	REDWOOD FALLS FIRE DEPT	900 S GOULD	REDWOOD FALLS	56283
*	REMER FIRE DEPARTMENT	PO BOX 162, MAIN ST	REMER	56672
	RENVILLE FIRE DEPARTMENT	PO BOX 621	RENVILLE	56284

	FIREFIGHTING FOAM SURVEY MAILING LIST			
	DEPARTMENT	**ADDRESS**	**CITY**	**ZIP**
	RICE FIRE DEPARTMENT	P O BOX 22	RICE	56367
	RICE LAKE VOL FIRE DEPT	4051 MARTIN RD	DULUTH	55803
	RICHFIELD FIRE DEPARTMENT	6700 PORTLAND AVE	RICHFIELD	55423
	RICHMOND FIRE DEPARTMENT	45 HALL AVE, BOX 628	RICHMOND	56368
	RIDGEWAY COMMUNITY FIRE DEPT	RT 2, BOX 243E	WINONA	55987
*	ROBBINSDALE FIRE DEPT	4101 HUBBARD AVE N	ROBBINSDALE	55422
*	ROCHESTER FIRE DEPT	201 4TH ST SE, RM 10	ROCHESTER	55904
*	ROCHESTER-RURAL FIRE DEPT	201 4TH ST SE, RM 10	ROCHESTER	55904
	ROCKFORD FIRE DEPT	6031 MAIN ST	ROCKFORD	55373
	ROCKVILLE FIRE DEPARTMENT	PO BOX 165	ROCKVILLE	56369
	ROGERS FIRE DEPARTMENT	21201 MEMORIAL DRV	ROGERS	55374
*	ROLLINGSTONE FIRE DEPT	P O BOX 74	ROLLINGSTONE	55969
*	ROSE CREEK AREA FIRE DEPT	BOX 195	ROSE CREEK	55970
*	ROSEAU FIRE DEPARTMENT	108-3RD AV SW, BX 55	ROSEAU	56751
*	ROSEMOUNT FIRE DEPT	2875 145TH ST W	ROSEMOUNT	55068
*	ROSEVILLE FIRE DEPT	2660 CIVIC CTR DR	ROSEVILLE	55113
	ROTHSAY FIRE DEPARTMENT	108 2ND ST NW	ROTHSAY	56579
	ROUND LAKE FIRE DEPT	PO BX 22	ROUND LAKE	56167
*	ROYALTON FIRE DEPARTMENT	5 NORTH CEDAR ST	ROYALTON	56373
*	RUSH CITY FIRE DEPARTMENT	PO BOX 556	RUSH CITY	55069
*	RUSHFORD FIRE DEPT	P O BOX 576	RUSHFORD	55971
*	RUSHMORE FIRE DEPT	614 2ND ST	RUSHMORE	56168
*	RUSSELL FIRE DEPARTMENT	BOX 8	RUSSELL	56169
	RUTHTON FIRE DEPARTMENT	BOX 13	RUTHTON	56170
	SABIN-ELMWOOD FIRE DEPT	PO BOX 35	SABIN	56580
*	SACRED HEART FIRE DEPT	113 W MAPLE	SACRED HEART	56285
	SANBORN FIRE DEPARTMENT	BOX 5	SANBORN	56083
*	SANDSTONE VOL FIRE DEPT	BOX 277	SANDSTONE	55072
*	SARTELL/LE SAUK FIRE DEPT	P O BOX 5	SARTELL	56377
*	SAUK CENTRE FIRE DEPT	320 OAK ST, SUITE-100	SAUK CENTRE	56378
*	SAUK RAPIDS FIRE DEPT	115 2ND AVE N	SAUK RAPIDS	56379
	SAVAGE FIRE DEPARTMENT	6000 MCCOLL DR	SAVAGE	55378
*	SCANDIA VALLEY FIRE DEPT	3518 320TH STREET	CUSHING	56443
*	SCANLON VOL FIRE DEPT	2801 DEWEY AVE	CLOQUET	55720
*	SCHROEDER FIRE DEPT	PO BOX 407	SCHROEDER	55613
*	SEAFORTH FIRE DEPARTMENT	BOX 22	SEAFORTH	56287
	SEBEKA FIRE DEPARTMENT	P O BOX 23	SEBEKA	56477
*	SEDAN FIRE DEPARTMENT	RR 4, BX 1194	GLENWOOD	56334
	SHAFER FRANCONIA FIRE DEPT	PO BOX 219, 30325 REDWING AVE	SHAFER	55074
	SHAKOPEE FIRE DEPT	129 S HOLMES ST	SHAKOPEE	55379
	SHAKOPEE MDEWAKANTON SIOUX COMM FIRE DEP	2330 SIOUX TRAIL NW	PRIOR LAKE	55372
	SHELLY FIRE DEPARTMENT	PO BOX 158	SHELLY	56581
*	SHERBURN FIRE DEPARTMENT	19 E 1ST ST, PO BX 730	SHERBURN	56171
	SHEVLIN FIRE DEPARTMENT	BOX 5	SHEVLIN	56676
*	SILICA AREA FIRE DEPT	PO BOX 338	HIBBING	55746
*	SILVER BAY FIRE DEPT	CITY HALL	SILVER BAY	55614
*	SILVER LAKE FIRE DEPT	308 W MAIN, PO BX 141	SILVER LAKE	55381
*	SKYLINE FIRE DEPARTMENT	23 SKYLINE DR	MANKATO	56001
	SLAYTON FIRE DEPARTMENT	BOX 3	SLAYTON	56172
*	SLEEPY EYE FIRE DEPT	123 2ND AVE	SLEEPY EYE	56085
*	SOLWAY FIRE DEPARTMENT	BOX 8	SOLWAY	56678
*	SOLWAY TWP FIRE DEPT	4027 MUNGER SHAW RD	CLOQUET	55720
*	SOUTH BEND FIRE DEPT	116 N STURGIS	MANKATO	56001
*	SOUTH HAVEN FIRE DEPT	PO BX 97, 640 OAK AV	SOUTH HAVEN	55382
	SOUTH ST PAUL FIRE DEPT	310 MARIE AVE	SOUTH ST PAUL	55075
*	SPICER FIRE DEPARTMENT	160 HWY 23 N, BOX 931	SPICER	56288
*	SPRING GROVE FIRE DEPT	P O BOX 614	SPRING GROVE	55974
*	SPRING LAKE PARK FIRE DEPT	1710 HWY 10	SPRING LAKE PARK	55432
	SPRING VALLEY FIRE DEPT	201 S BROADWAY STREET	SPRING VALLEY	55975
	SPRINGFIELD VOL FIRE DEPT	PO BX 17, 24 N SPRING AV	SPRINGFIELD	56087
	SQUAW LAKE FIRE DEPT	51296 STATE HIGHWAY 46	SQUAW LAKE	56681
*	ST ANTHONY FIRE DEPT	3505 SILVER LAKE RD NE	ST ANTHONY	55418
*	ST BONIFACIUS FIRE DEPT	8535 KENNEDY MEMORIAL DRIVE	ST BONIFACIUS	55375
*	ST CHARLES FIRE DEPT	830 WHITEWATER AVE	ST CHARLES	55972
*	ST CLAIR FIRE DEPARTMENT	BOX 185	ST CLAIR	56080
*	ST CLOUD FIRE DEPARTMENT	101 10TH AVE N	ST CLOUD	56303
*	ST FRANCIS FIRE DEPT	PO BOX 730	ST FRANCIS	55070
	ST HILAIRE FIRE DEPARTMENT	PO BOX 253	ST HILAIRE	56754
*	ST JAMES FIRE DEPARTMENT	315 11TH ST S	ST JAMES	56081
*	ST JOHN'S UNIVERSITY FIRE DEPT	ST JOHN'S ABBEY	COLLEGEVILLE	56321
*	ST JOSEPH VOL FIRE DEPT	P O BOX 4	ST JOSEPH	56374
*	ST LEO FIRE DEPARTMENT	205 N MAIN ST	ST LEO	56286
*	ST LOUIS PARK FIRE DEPT	5005 MINNETONKA BLVD	ST LOUIS PARK	55416
*	ST MARTIN FIRE DEPT	BOX 294	ST MARTIN	56376
	ST MICHAEL FIRE DEPT	216 MAIN ST	ST MICHAEL	55376
*	ST PAUL FIRE DEPARTMENT	100 E 11TH ST	ST PAUL	55101

	FIREFIGHTING FOAM SURVEY MAILING LIST			
	DEPARTMENT	**ADDRESS**	**CITY**	**ZIP**
*	ST PAUL PARK VOL FIRE DEPT	600 PORTLAND AV	ST PAUL PARK	55071
*	ST PETER FIRE DEPARTMENT	227 W MULBERRY ST	ST PETER	56082
*	ST STEPHEN FIRE DEPT	2 6TH AVE SE	ST STEPHEN	56375
*	STACY-LENT FIRE DEPT	5660 STACY TRAIL, PO BX 123	STACY	55079
*	STAPLES FIRE DEPARTMENT	GOVERNMNT CTR, 611 IOWA AV	STAPLES	56479
	STARBUCK FIRE DEPARTMENT	208 MAIN ST, PO BX 747	STARBUCK	56381
	STEPHEN FIRE DEPARTMENT	PO BOX 525	STEPHEN	56757
*	STEWART FIRE DEPARTMENT	P O BOX 127	STEWART	55385
*	STEWARTVILLE FIRE DEPT	417 SOUTH MAIN	STEWARTVILLE	55976
*	STILLWATER FIRE DEPT	216 N 4TH ST	STILLWATER	55082
	STORDEN FIRE DEPARTMENT	BOX 84	STORDEN	56174
	STURGEON LAKE FIRE DEPT	RR 1, P O BOX 98	STURGEON LAKE	55783
*	SUNBURG FIRE DEPARTMENT	210 CENTRAL AV, PO BX 41	SUNBURG	56289
*	SWANVILLE FIRE DEPT	P O BOX 252	SWANVILLE	56382
*	TACONITE FIRE DEPARTMENT	PO BOX 116	TACONITE	55786
*	TAUNTON FIRE DEPARTMENT	301 N LINCOLN ST	TAUNTON	56291
*	TAYLOR FALLS FIRE DEPT	ATTN: TIM RIVARD, 637 FIRST ST	TAYLORS FALLS	55084
*	THIEF RIVER FALLS FIRE DEPT	320 E 2ND ST	THIEF RIVER FALLS	56701
*	THOMPSON TWP FIRE DEPT	BOX 122	ESKO	55733
*	TINTAH FIRE DEPARTMENT	207 ASH ST, BOX 122	TINTAH	56583
*	TOFTE FIRE DEPARTMENT	BOX 2111	TOFTE	55615
	TOIVOLA TWP FIRE DEPT	9094 HWY 5	TOIVOLA	55765
*	TOWER FIRE DEPARTMENT	PO BOX 576	TOWER	55790
*	TRACY FIRE DEPARTMENT	231 SECOND	TRACY	56175
	TRIMONT FIRE DEPARTMENT	PO BOX N	TRIMONT	56176
	TRUMAN FIRE DEPARTMENT	BOX 398	TRUMAN	56088
	TWIN LAKES FIRE DEPT	101 W MAIN ST	TWIN LAKES	56089
*	TWIN LAKES VO FIRE DEPT	PO BOX 27	NAY-TAH-WAUSH	56566
*	TWIN VALLEY FIRE DEPT	PO BX 425, HWY 32 SO	TWIN VALLEY	56584
	TWO HARBORS FIRE DEPT	522 1ST AVE	TWO HARBORS	55616
*	TYLER FIRE DEPARTMENT		TYLER	56178
*	ULEN FIRE DEPARTMENT	BOX 121	ULEN	56585
*	UNDERWOOD FIRE DEPT	PO BOX 24	UNDERWOOD	56586
*	UPSALA FIRE DEPARTMENT	PO BX 164	UPSALA	56384
*	VADNAIS HEIGHTS FIRE DEPT	3595 ARCADE ST	VADNAIS HEIGHTS	55127
*	VERGAS FIRE DEPARTMENT	P O BOX 98, 120 W LINDEN ST	VERGAS	56587
*	VERMILLION LAKE FIRE DEPT	9388 HOLTER RD	TOWER	55790
*	VERNDALE FIRE DEPT	101 S BROWN ST, PO BOX 156	VERNDALE	56481
	VERNON CENTER FIRE DEPT	PO BX 365, 200 MAIN ST W	VERNON CENTER	56090
	VESTA FIRE DEPARTMENT	BOX 149	VESTA	56292
	VICTORIA FIRE DEPARTMENT	1500 80TH STREET	VICTORIA	55386
*	VIKING FIRE DEPARTMENT	406 MAIN ST N, PO BOX 97	VIKING	56760
*	VILLARD VOL FIRE DEPT	P O BOX 123	VILLARD	56385
	VINING FIRE DEPARTMENT		VINING	56588
*	VIRGINIA FIRE DEPARTMENT	115 N 4TH AVE	VIRGINIA	55792
	WABASHA FIRE DEPARTMENT	900 HIAWATHA DR E	WABASHA	55981
	WABASSO VOL FIRE DEPT	BOX 172	WABASSO	56293
*	WACONIA FIRE DEPARTMENT	26 S MAPLE ST	WACONIA	55387
	WADENA FIRE DEPARTMENT	PO BOX 30	WADENA	56482
*	WAITE PARK FIRE DEPT	19-13TH AV N PO BX 339	WAITE PARK	56387
*	WALDORF FIRE DEPARTMENT	PO BOX 8	WALDORF	56091
	WALKER FIRE DEPARTMENT	PO BOX 207	WALKER	56484
	WALNUT GROVE FIRE DEPT	330 7TH ST	WALNUT GROVE	56180
*	WALTERS VOL FIRE DEPT	PO BOX 56	WALTERS	56092
*	WANAMINGO FIRE DEPT	P O BOX 304	WANAMINGO	55983
*	WANDA FIRE DEPARTMENT	PO BOX 251	WANDA	56294
*	WARBA-FEELEY-SAGO FIRE DEPT	BOX 2761	WARBA	55793
*	WARREN FIRE DEPARTMENT	731 N 1ST ST	WARREN	56762
	WARROAD FIRE DEPARTMENT	PO BOX 50	WARROAD	56763
*	WASECA FIRE DEPARTMENT	117 2ND AVE SE	WASECA	56093
*	WATERTOWN FIRE DEPT	401 CARTER ST NE, PO BX 755	WATERTOWN	55388
	WATERVILLE FIRE DEPT	110 N 1ST STREET	WATERVILLE	56096
*	WATKINS FIRE DEPARTMENT	BOX 406	WATKINS	55389
	WATSON FIRE DEPARTMENT	BOX 160	WATSON	56295
	WAUBUN FIRE DEPARTMENT	BOX 151	WAUBUN	56589
	WAVERLY FIRE DEPARTMENT	PO BOX 8	WAVERLY	55390
*	WAYZATA FIRE DEPARTMENT	600 E RICE ST	WAYZATA	55391
*	WELCOME FIRE DEPARTMENT	PO BOX 373	WELCOME	56181
	WELLS FIRE DEPARTMENT	180 3RD ST SE	WELLS	56097
	WENDELL FIRE DEPARTMENT	27895 250TH AVE	WENDELL	56590
	WEST CONCORD FIRE DEPT	P O BOX 586	WEST CONCORD	55985
*	WEST METRO FIRE-RESCUE DISTRICT	4251 XYLON AVE N	NEW HOPE	55428
	WEST ST PAUL FIRE DEPT	1616 HUMBOLDT AVE	WEST ST PAUL	55118
	WESTBROOK FIRE DEPT	BOX 261	WESTBROOK	56183
*	WHEATON FIRE DEPARTMENT	905 BROADWAY, PO BOX 83	WHEATON	56296
*	WHITE BEAR LAKE FIRE DEPT	4700 MILLER AVE	WHITE BEAR LAKE	55110

	FIREFIGHTING FOAM SURVEY MAILING LIST			
	DEPARTMENT	**ADDRESS**	**CITY**	**ZIP**
	WHITE EARTH VOL FIRE DEPT	PO BOX 418	WHITE EARTH	56591
*	WILLIAMS FIRE DEPARTMENT	P O BOX 624	WILLIAMS	56686
*	WILLMAR FIRE DEPARTMENT	515 SW 2ND ST	WILLMAR	56201
	WILLOW RIVER FIRE DEPT	8099 CO HWY 61, PO BOX 125	WILLOW RIVER	55795
	WILMONT FIRE DEPARTMENT	304 4TH AVE, PO BOX 182	WILMONT	56185
*	WILSON VOL FIRE DEPT	RR 2, BOX 243B	WINONA	55987
	WINDOM FIRE DEPARTMENT	444 - 9TH ST	WINDOM	56101
	WINGER FIRE DEPARTMENT	PO BOX 168	WINGER	56592
	WINNEBAGO VOL FIRE DEPT	CITY HALL,PO BX 386	WINNEBAGO	56098
*	WINONA FIRE DEPARTMENT	451 E 3RD ST	WINONA	55987
*	WINSTED FIRE DEPARTMENT	PO BX 298,241 1ST ST N	WINSTED	55395
	WINTHROP VOL FIRE DEPT	BX 407, 3 N MAIN ST	WINTHROP	55396
*	WOLF LAKE FIRE DEPT	P O BOX 1	WOLF LAKE	56593
	WOLVERTON FIRE DEPT	BOX 7	WOLVERTON	56594
	WOODBURY FIRE DEPT	2100 RADIO DR	WOODBURY	55125
	WOODLAKE FIRE DEPT	79 3RD AVE	WOODLAKE	56297
	WOODSTOCK FIRE DEPT	P O BOX 67	WOODSTOCK	56186
	WORTHINGTON FIRE DEPT	P O BOX 151	WORTHINGTON	56187
*	WRENSHALL FIRE DEPT		WRENSHALL	55797
	WRIGHT VOL FIRE DEPT	1447 COSTELLO RD	WRIGHT	55798
	WYKOFF FIRE DEPARTMENT	114 FILLMORE ST, BX 186	WYKOFF	55990
*	WYOMING FIRE DEPARTMENT	26885 FOREST BLVD, BX 188	WYOMING	55092
*	ZIMMERMAN FIRE DEPT	13028 FREEMONT AV	ZIMMERMAN	55398
*	ZUMBRO FALLS FIRE DEPT	PO BOX 119	ZUMBRO FALLS	55991
*	ZUMBROTA VOL FIRE DEPT	PO BOX 206	ZUMBROTA	55992
*	Questinnaire completed and returned.			

	FIREFIGHTING FOAM SURVEY MAILING LIST					
	NAME	**TITLE**	**DEPARTMENT**	**ADDRESS**	**CITY**	**ZIP**
*	Don Beckering	State Director of Fire Training	MNSCU Fire Center	30 7th Street East, #350	St. Paul	55101
*	Marty Christensen	Fire Training Program	Itasca Community College	1851 E. Highway 169	Grand Rapids	55744
*	Sandy Larson (Scott Schaefer)	Fire Programs Manager	Alexandria Technical College	1601 Jefferson Street	Alexandria	56308
	Larry Rieber	Fire Programs Manager	St. Cloud Technical College	1540 Northway Drive	St. Cloud	56303
*	Daryl Bartholomaus	Fire Programs Manager	Minnesota West Comm Coll	607 W. Main Street, #100	Marshall	56258
*	Mike Roe	Fire Programs Manager	Ridgewater College	2101 NW 15th Ave.	Willmar	56201
*	Tim Zehnder	Fire Training Program	South Central College	1920 Lee Blvd.	North Mankato	56003
*	Brian Staska	Fire Programs Manager	Riverland Community College	1900 8th Ave. NW	Austin	55912
*	Mike Anderson	Fire Training Program	Pine Technical College	900 4th Street SE	Pine City	55063
*	Todd Seitz	Fire Training Coordinator	Hennepin Technical College	1820 Xenium Lane N.	Plymouth	55441
	Dave Klocek	Fire Training Program	Hennepin Technical College	13100 College View Dr.	Eden Prairie	55347
*	Dr. Lori Wynia	Business & Public Affairs	Southwest State University	1501 State Street	Marshall	56258
	Jeff Voight	Fire Technology Instructor	Northland Comm College	2022 Central Ave NE	East Grand Forks	56721
*	Rick Besser	Fire Training Program	Northland Comm College	1101 Highway 1 East	Thief River Falls	56701
	Rebecca Best	Assoc. V.P., Academic Aff.	Central Lakes College	501 W. College Drive	Brainerd	56401
	Rick Loveland	Fire Training Program	Minn State Comm College	2900 28th Ave. S.	Moorhead	56560
*	Steve Flaherty	Fire Programs Manager	Mesabi Range Comm College	1001 Chestnut Street	Virginia	55792
*	Dave Sarazin		Lake Superior Tech College	11501 Highway 23	Duluth	55808
*	Fire Chief Dane Lund	Fire Department	Rochester Intl Airport	1500 Helgerson Dr. SW	Rochester	55901
*	Fire Chief	St. Cloud Airport	c/o Fire Station No. 3	1201 Michigan Ave. SE	St. Cloud	56304
*	Toni Howell	Mgr. of Environmental Aff.	MAC	thowell@mspmac.org	Minneapolis	
*	Steve Crisp	Fire Chief	Marathon Petroleum Corp.	slcrisp@marathonoil.com	St. Paul Park	
*	Pete Herpst	Fire Chief	Flint Hills Refinery	pete.herpst@fhr.com	Rosemount	
*	Questionnaire completed and returned.					

APPENDIX C

Questionnaires from Municipal Fire Departments
(provided on compact disc)

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

   ~~_____ No~~ - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

_____

_____

_____

_____

_____

_____

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A					
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Kevin Beimen
Name and Title

Abercrombie Fire Protection District
Fire Department

701 553 9107 — 5/27/08
Phone Number — Date

aberfire@rrt.net
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   X Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   X Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   8th St W. AJA. W/ ON STREET & IN DITCH

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	SILV-EX	Y	30gal	Y	Y
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

STEVEN PETRY FIRE CHIEF
Name and Title

ADA
Fire Department

218-784-5528 5-28-08
Phone Number Date

stevepetry@Yahoo.com
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons X 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Fire Station Adams Minn 55909
   Main St East side of Town

OVER→

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Silv-ex	Yess	25gal	0	30gal
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Peter Schmitz Fire Chief
Name and Title

Adams Fire
Fire Department

507-438-1134 6-6-08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _X_ Other (please specify): never

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	Silvex	no	85 gallons	
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silvex	no	15 gallons	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Tony Parsley Fire Chief
Name and Title

Adrian Fire Department
Fire Department

(507) 483-2975 4/30/08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires X 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   X Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   X Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   109 FIRST STREET NW (FIRE STATION)

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)				NO	No
Class B Alcohol-Resistant (AR)-AFFF				No	
Class B Protein				No	
Class B Fluoroprotein (FP)				No	
Class B Film-Forming Fluoroprotein (FFFP)				No	
Class B AR-FFFP					
Class A-B Hi Expansion Foam				No	
Class A	Silvix	Yes	1 gallon	Yes	Yes
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Brian Pismek - Chief
Name and Title

Aitkin
Fire Department

218-927-7508 5/29/08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   X Other (please specify): RARELY

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   [redacted] 28987 ALASKA LN NW Ruposky MN

   FIRE HALL

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	SILV-EX	yes	1gal.	Historic
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

MARK PARROTT CHIEF

Name and Title

ALASKA VOLUNTEER FIRE DEPT.

Fire Department

218 243 2785 5/6/08

Phone Number Date

E-Mail Address

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?
   - [X] Yes - **Proceed to Question 2**
   - [ ] No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?
   - [ ] 0-25% of fires
   - [ ] 25-50% of fires
   - [X] 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?
   - [X] Yes
   - [ ] No

4. How often is foam used in training exercises?
   - [ ] Weekly
   - [ ] Monthly
   - [ ] Quarterly
   - [ ] Semi-Annually
   - [ ] Annually
   - [X] Bi-Annually
   - [ ] Other (please specify): _____

5. How much foam is used per training event?
   - [X] Less than 5 gallons
   - [ ] 5 gallons
   - [ ] 5 to 10 gallons
   - [ ] More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?
   - [X] Storm Sewer
   - [ ] Sanitary Sewer
   - [ ] On-Site Septic
   - [X] Ground
   - [ ] Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Parking lot at 30 Forest Ave

In 2007 we used about 35 gallons of foam total for fires and training.

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Angus Forexpand S	Yes	5-10 gallons for training	Auto Fires Structure Fires
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

DEAN MITCHELL FIRE CHIEF
Name and Title

Albany Fire Dept
Fire Department

320-250-2108 4-28-08
Phone Number Date

albanyfire@albanytel.com
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _X_ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _X_ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   A Training area off of Frank ave near our dog pound.

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	~~ANSULITE~~			
Class B Alcohol-Resistant (AR)-AFFF	ANSULITE	YES	15-20g (depending)	CURRENT
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	SILV-EX	No	40g roughly	CURRENT
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

CAPTAIN JAMES BERG.
Name and Title

ALBERT LEA FIRE DEPT
Fire Department

(507) 377-4340 APRIL 29, 2008
Phone Number Date

alfire@city.albertlea.org
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Frank Hall Dr. Albert Lea

   Old Sewage treatment Plant

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silver	yes	1-2gal	Current
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Bob Shellen Fire Chief
Name and Title

Albert Lea Township FD
Fire Department

507/377-5734 4/29/08
Phone Number Date

bob.shellen@Streater.com
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   X Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   X Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons X 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   X Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Albertville Fire Hall 11350 57th St NE Albertville, MN 55301

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	ANGUS	YES	5-10 gallons	both
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Tate Mills Fire Chief
Name and Title

Albertville Fire Department
Fire Department

(C) 612-685-6383 (W) 763-497-4836
Phone Number Date

Fdchief1@ci.albertville.mn.us
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?
   - ___X___ Yes - **Proceed to Question 2**
   - _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?
   - ___X___ 0-25% of fires
   - _____ 25-50% of fires
   - _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?
   - _____ Yes
   - ___X___ No

4. How often is foam used in training exercises?
   - _____ Never
   - _____ Weekly
   - _____ Monthly
   - _____ Quarterly
   - _____ Semi-Annually
   - _____ Annually
   - ___X___ Bi-Annually
   - _____ Other (please specify): _____

5. How much foam is used per training event?
   - ___X___ Less than 5 gallons
   - _____ 5 gallons
   - _____ 5 to 10 gallons
   - _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?
   - _____ Storm Sewer
   - _____ Sanitary Sewer
   - _____ On-Site Septic
   - ___X___ Ground
   - _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Main ST, Alpha

OVER→

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	SILVEX	YES	2 gal	0	15 gal
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

John Ingebrigtsen Fire Chief
Name and Title

ALPHA Fire Dept
Fire Department

507 847-3557 5/28/08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires X 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   X Other (please specify): VERY SELDOM, EVERY 3 OR 4 YEARS

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons X 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   X Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   UNKNOWN, I WAS NOT HERE THE LAST TIME WE TRAINED WITH FOAM

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	SILV-EX	NO	~~50~~ GAL	CURRENT
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

CHARLES THOMPSON
Name and Title

ANOKA - CHAMPLIN FIRE DEPARTMENT
Fire Department

763- 576- 2861 | 1 MAY 2008
Phone Number | Date

CTHOMPSON @ CI. ANOKA. MN. US
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _X_ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _X_ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _X_ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _X_ Storm Sewer _X_ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Apple Valley Fire Station #1

   ~~7~~ 15000 Hayes Road, Apple Valley, MN 55124

   Apple Valley Central Maintenece Facility

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	ANGUS	YES	3	NO	YES
Class B Alcohol-Resistant (AR)-AFFF	ANGUS TRIDENT	YES	15 gallons	YES	YES
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	ANGUS HI-COMBAT A	YES	10 gallons	YES	YES
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

NEALON THOMPSON, DEPUTY CHIEF
Name and Title

APPLE VALLEY FIRE
Fire Department

952-953-2600 — JUNE 6, 2008
Phone Number — Date

nthompson@ci.apple-valley.mn.us
E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   __X__ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires __X__ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   __X__ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   __X__ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   __X__ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic __X__ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   South of City of Appleton Public Works Bldg.

   427 S. Munsterman St. Appleton, MN

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	Ansulite 3X3	Yes	Less than 15gal	Current Small amounts
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silv-ex	Yes	Less than 15gal.	Current Small amounts.
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Roman A Fidler, Asst Chief
Name and Title

Appleton Fire Rescue
Fire Department

320-289-1363 4/28/08.
Phone Number Date

roman_56255@hotmail.com
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _X_ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event? N/A

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go? N/A

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Did not use foam during training, budget issue

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Chemguard	No	50gallons		50 gallons
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jeff otto Fire Chief
Name and Title

Arlington Fire Dept
Fire Department

507-964-2279 5-30-08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _X_ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _X_ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   At the Firehall at 9798 Hwy 2 Brookston Mn 55711

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Silv-ex	yes	less than 5gal	yes	yes
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Gerald Wilton Fire chief
Name and Title

Arrowhead Fire Department
Fire Department

218 879-6916 6/2/08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires X 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	SILV-EX	YES	20	HISTORIC
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

MARK ZLOTNICK - CHIEF
Name and Title

ASHBY FIRE DEPT
Fire Department

218-747-2214 5-7-09
Phone Number Date

ashbyfire@yahoo.com
E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ___X___ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

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5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Pete WATRIN Fire Chief
Name and Title

Askov F.D.
Fire Department

320-838-3616 5/13/08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   __X__ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   __X__ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   __X__ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   __X__ Other (please specify): Never have used Foam For training.

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silvex	No	20gal. avg.	Both
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

James LaKso, Assistant Chief
Name and Title

Aurora Fire Department
Fire Department

218-229-3776 — 4/29/08
Phone Number — Date

jlaKso@Frontiernet.net
E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   Class A X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

   X Foam Pro - proportioner with A-B tank

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): 3M Training Foam Only

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): Training Foam Only

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Marcusen Park - South Main Street - Austin MN 55912

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	3-M	NO		Have not used B Foam in 10 yrs.
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silvex	NO	20 gal	Rural Structure Fires Only
Training Foam	3-M	YES	1 gal concentrated mixed with Water	
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Dan Wilson — Fire Chief
Name and Title

Austin Minnesota
Fire Department

507-433-3405 — April 28-08
Phone Number — Date

DWilson@ci.austin.mn.us
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _X_ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Cty Rd 155 + Angelfish Road
   In the City of Avon

a member of: Inogen Environment Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	Silvex	Yes	5gal (TRAINING)	35gal (FIRE)
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Eric Linn Chief
Name and Title

AVON FIRE DEPT.
Fire Department

320-250-6195 4-30-08
Phone Number Date

eric@jelinn.clearwire.net
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   34 North Dr Babbitt MN 55706

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	Ansulite	NO	0-5 gallons	Current; if needed
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Sin-ex	Yes	5-10 gallons	Current/part
Training Foam	Ansulite	Yes	0-5 gallons	Current
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Ryan Scharber Fire Chief
Name and Title

Babbitt Fire Department
Fire Department

218 827 2611 5-6-08
Phone Number Date

babbittfd@frontiernet.net
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ✓ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   X Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): Only at Fires.

5. How much foam is used per training event? None

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silv-ex (Ansul)	No	55 gal	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Richard V. Ktora (chief)
Name and Title

Bagley Fire Dept
Fire Department

218-694-4217 work
Phone Number

4-29-08
Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ✓ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually ✓ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons ✓ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): GRASS FIELD

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   THE City BURN SITE

   SE Corner of town, end of Lake Street

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	3M	NO	10 GALS	
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	3M	NO	10 GALS	
Training Foam	3M	YES	5 GALS	
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

DARRELL CRUMRINE FIRE CHIEF
Name and Title

BALATON FIRE DEPT.
Fire Department

1-507-530-6218 5/06/08
Phone Number Date

SPARKY 60 @ FRONTIERNET.NET
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ✓ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   ✓ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   ✓ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ✓ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   AT FIRE HALL 41362 Scenic Hwy Bovey MN. 55709

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Silvex	Yes	15 gallons	Yes	Yes
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Troy Beckner Fire Chief
Name and Title

Balsam Vol. Fire Dept.
Fire Department

218-245-2642 5-30-08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires X 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Fire Hall Parking Lot + Surrounding
   Blacktop. Sheets to grass
   3842 Church St
   Bayview

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam	Hi-Combat A-Angus	Yes	5gal	Always
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Corey Hurst
Name and Title

Fire Chief, Barnum F.D.
Fire Department

218-428-8354 — 5-13-08
Phone Number — Date

E-Mail Address

member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires X 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   X Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually ~~X Bi-Annually~~

   X Other (please specify): When we get new members on

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   BATTLE LAKE AIRPORT

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	5;lv-ex	yes	1/2 Gallon	current
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Duane Brown Chief
Name and Title

Battle Lake
Fire Department

218-864-5511 4/28/08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires ✓ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   ✓ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   ~~✓~~ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   ✓ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   1ST AVE SW & 1ST ~~AVE~~ ST SW ONCE 5 YRS AGO
   DIFFERENT LOCATIONS DURING LIVE FIRE TRAINING

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	SILVEX	Y	25 GAL	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

DAVID GABBELS CHIEF
Name and Title

BAUDETTE FIRE/RESCUE
Fire Department

218 634 1513 4-28-08
Phone Number Date

BFD@WIKTEL.COM
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

   _X_ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

_____

_____

_____

_____

_____

_____

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A					
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Paul Lessman –
Name and Title

Bear Creek Fire Control
Fire Department

218-657-2900 5/30/08
Phone Number Date

E-Mail Address

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   It's in different places everytime.

a member of: Inogen Environmental Alliance

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silv-ex	Yes	5 gal's	Current Use
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Kenneth Hendricks Chief
Name and Title

Beardsley Fire Dept
Fire Department

320-265-6317 5/7/08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

   __X__ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Daryl Fuerstenberg Assistant Chief
Name and Title

Beaver Creek
Fire Department

(507) 673-2266 = city clerk 05-07-08
Phone Number Date

N/A
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _X_ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _X_ Other (please specify): None

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silv-ex	No	50 gallons average per year	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

~~Belgrade Fire~~ Bob Dickhoff Cheif
Name and Title

Belgrade Fire / Rescue
Fire Department

320- 254-
Phone Number

5-5-08
Date

belfireresdept@yahoo.com
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   FIRE DEPT PARKING LOT - CAR FOAMED THEN THE CAR WENT TO SALVAGE YARD.

   BELLINGHAM FARMERS ELEVATOR - FOAMED A PILE OF WOOD PALLETS THAT WERE THEN DISCARDED

OVER→

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	NA				
Class B Alcohol-Resistant (AR)-AFFF	NA				
Class B Protein	NA				
Class B Fluoroprotein (FP)	NA				
Class B Film-Forming Fluoroprotein (FFFP)	NA				
Class B AR-FFFP	NA				
Class A-B Hi Expansion Foam	NA				
Class A	Silv-ex	yes	1 gal	yes	yes
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

DAVE MORIC FC
Name and Title

BELLINGHAM FIRE DEPT
Fire Department

320-568-2100 — 5/28/08
Phone Number — Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually or _____ Bi-Annually

   _____ Other (please specify): Last time we used it was about 5 yrs ago

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   F.G.F. Tech

   Right at Fire Dept. grounds

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

N/A I don't Remember which one of these

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	N/A	N			
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Rory Hamre chief
Name and Title

Beltrami Fire Dept
Fire Department

N/A
Phone Number

Date

rbhinc@yahoo.com
E-Mail Address

5-31-08

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires X 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   X Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Varies, but usually within City Limits of Belview

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF		NO	5 gal.	Both
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A		NO	5 gal.	Both
Training Foam	Dawn Dishwashing Soap	Yes	1/2 gallon	Both
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Mike Preuss Fire chief
Name and Title

Belview
Fire Department

507-938-4335 4-28-08
Phone Number Date

Belview@MVTV Wireless.com
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   X No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons X 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Bemidji Airport - Class B
   Railroad St - Class A

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	Light Water	yes	≈5 gal	Current
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silvex	Yes	15 gal.	Current
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Dick Sathers Chief
Name and Title

Bemidji
Fire Department

218-751-8001 5-8-08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	3-M	No	5 gal	
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silex	yes	15 gal	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Mark Schreck Chief
Name and Title

Benson Fire Dept
Fire Department

320-843-3916 5/6/08
Phone Number Date

bensonbodyshop@hotmail.com
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires X 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   X Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   X Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   at firehall

OVER→

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	Ansulite	N	0	0	5
Class B Alcohol-Resistant (AR)-AFFF	Ø				
Class B Protein	Ø				
Class B Fluoroprotein (FP)	Ø				
Class B Film-Forming Fluoroprotein (FFFP)	Ø				
Class B AR-FFFP	Ø				
Class A-B Hi Expansion Foam	Ø				
Class A	Silvex	Y	20	15	20
Training Foam	Chemguard	Y	10	5	10
Other	Ø				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Gary Kleen, Chief
Name and Title

Bertha Fire
Fire Department

218 924 4211 6/3/08
Phone Number Date

bhtrans@eot.com
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?
   - X Yes - **Proceed to Question 2**
   - _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?
   - X 0-25% of fires
   - _____ 25-50% of fires
   - _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?
   - _____ Yes
   - X No

4. How often is foam used in training exercises?
   - _____ Never
   - _____ Weekly
   - _____ Monthly
   - X Quarterly
   - _____ Semi-Annually
   - _____ Annually
   - _____ Bi-Annually
   - _____ Other (please specify): _____

5. How much foam is used per training event?
   - X Less than 5 gallons
   - _____ 5 gallons
   - _____ 5 to 10 gallons
   - _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?
   - X Storm Sewer
   - _____ Sanitary Sewer
   - _____ On-Site Septic
   - X Ground
   - _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

We Have Used Fire Foam in many Placed in our area

OVER→

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5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF	Ansulite 3-6	Y	Less 5 gal	Y	
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Silvex	Y	Less 5 gal	Phasing out	
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Capt. Nick Fiester
Name and Title

Big Lake Fire
Fire Department

763-263-3456 — 6-7-08
Phone Number — Date

NickFiester@AOL.com
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ✓ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   ✓ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually ✓ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   ✓ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ✓ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Bigelow Elevator Parking Lot

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silv-ex	yes	1gal per year	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Paul Holewell — Fire Chief
Name and Title

Bigelow Fire Dept.
Fire Department

507 376-4894 — 6-7-08
Phone Number — Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _X_ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _X_ Other (please specify): -0-

5. How much foam is used per training event?

   Ogal's Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _X_ Other (please describe): Not used

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silv-ex	NO	10 gal	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Mark Peterson Chief
Name and Title

Bird Island MN.
Fire Department

320 212 9584 — May 6 08
Phone Number — Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires ✓ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   ✓ Semi-Annually _____ Annually _____ Bi-Annually

   ✓ Other (please specify): This Fall we put a new pumper truck into service, we did not use foam untill then.

5. How much foam is used per training event?

   ✓ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ✓ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   3148 Co. Rd 5, Barnum, MN

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other	F-500 Wetting Agent	Yes	NA	2 gal.

We have only practiced with it so far.

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Chief Royce Lattu
Name and Title

Blackhoof Fire Dept.
Fire Department

218-384-4963 5-25-08
Phone Number Date

royce.lattu@msn.com
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   605 INDUSTRIAL DRIVE

OVER→

a member of: Inogen Environmental Alliance
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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	ATC	NO	—	—	—
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	SILV-EX	NO	15GAL.		
Training Foam	?	YES	5GAL		15GAL-
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

KURT UNDERWOOD CHIEF
Name and Title

BLOOMING PRAIRIE
Fire Department

507-583-2088 6-8-08
Phone Number Date

bpfd@smig.net
E-Mail Address

member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

   
   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

   _____

   _____

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a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A					
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Mel Hanson Fire Chief

Name and Title

Blomkest Fire Dept

Fire Department

Phone Number: 320 995 6165

Date: 5-27-08

E-Mail Address

Inogen

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ✓ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   ✓ Semi-Annually or ✓ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   ✓ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   ✓ More than 10 gallons (please specify): 6 Station annual Training.
   We use class A dish soap for training

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ✓ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   10 West 85th St. 10540 Bush Lake Road
   10601 Xerxes Ave. So. 8601 Lakeview Rd.
   2050 E. 86th St.
   4201 West 84th St.

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
✓Class B Aqueous Film-Forming Foam (AFFF)	Light Water AFFF	No		Current response
✓Class B Alcohol-Resistant (AR)-AFFF	Light Water ATC	NO		Current response
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
✓Class A	National Foam	No		Current
✓Training Foam	?	YES/no longer used.		Historic
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Mike Seal FIRE CHIEF
Name and Title

BLOOMINGTON FIRE DEPARTMENT
Fire Department

952-563-4811 5-1-2008
Phone Number Date

mseal@ci.bloomington.mn.us
E-Mail Address

a member of Inogen Environmental Alliance
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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   X Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   X Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): in a field on the ground

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   CRP Field

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Silv-ex	Yes	5 gall	2 gall	15 gall
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Ken Theisen (Fire Chief)
Name and Title

Bluffton Fire Department
Fire Department

218-385-2574 6-10-08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ___X___ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ___X___ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ___X___ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A Training Foam	Silves	NO	Just received / have not used	
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Randy Pallum (chief)
Name and Title

Borup Fire Dept.
Fire Department

218-582-3337 5/6/08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   [X] Yes - **Proceed to Question 2**

   [ ] No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   [ ] 0-25% of fires [X] 25-50% of fires [ ] 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   [X] Yes

   [ ] No

4. How often is foam used in training exercises?

   [ ] Weekly [ ] Monthly [ ] Quarterly

   [X] Semi-Annually [ ] Annually [ ] Bi-Annually

   [ ] Other (please specify): _____

5. How much foam is used per training event?

   [X] Less than 5 gallons [ ] 5 gallons [ ] 5 to 10 gallons

   [ ] More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   [ ] Storm Sewer [ ] Sanitary Sewer [ ] On-Site Septic [X] Ground

   [ ] Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   THE FOAM WE USE WAS AT MULTIPLE LOCATIONS IN OUR COVERAGE AREA IN ITASCA COUNTY, MN.

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	ANSUL	✓	25 gal	✓
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

David Schwartz – FireFighter, Secretary
Name and Title

Bovey Fire Dept
Fire Department

218-32x-7074 5-20-08
Phone Number Date

dirtboy3@hotmail.com
E-Mail Address

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually X Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   HALF Mile SOUTH ON 26

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	Auges	NO	56Gallon	
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Auges	Yes	56Gallon	20 Gallon
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Clarence S. Psyck JR
Name and Title

Bowlus
Fire Department

320 584-5136 4-28-08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X_____ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires X_____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X_____ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   X_____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X_____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X_____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   We generally use foam only to verify that the foam unit is functioning properly. We will run the foam just long enough to verify function, then we turn it off. There is a very small amount of foam dispensed. The location of the discharge will vary depending on where we are training at the time. We generally train throughout our protection territory, which is 45 square miles. We test the foam unit when we are conducting pump operation drills. We have foam capabilities on 3 of our Engines.

OVER→

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Silvex	Y	> 1/4 gallon	Y	N
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Scott Schaefer Fire Chief
Name and Title

Brandon Fire Department
Fire Department

320-524-2220 6/13/2008
Phone Number Date

brandonfire@gctel.com
E-Mail Address

a member of: Inogen Environmental Alliance

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _X_ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _X_ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   1312 Minnesota Ave

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	Unknown	Yes	5 gallons	
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Unknown	Yes	5 gallons	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Brad Wall - Assistant Fire Chief
Name and Title

Breckenridge Fire Department
Fire Department

218-643-6910 — 5-8-08
Phone Number — Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires X 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   X Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons X 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   No Specific area - varies every time we do Training

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silvex	Yes	5-10 gallons	Historical
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Steve Burgess - Chief
Name and Title

Brevtung Fire Dept
Fire Department

218-753-6262 4-28-08
Phone Number Date

sbburg@frontiernet.net
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ___Y___ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ___Y___ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ___Y___ No

4. How often is foam used in training exercises?

   ___N___ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

   _____

   _____

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a member of Inogen Environmental Alliance

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	~~Silv-Ex~~ Silv-ex	no	10gal	yes	
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A					
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

John Grakmek Fire Chief
Name and Title

Brewster Fire Dept.
Fire Department

507 842-5936 (City Hall) 6-4-8
Phone Number Date

jgrakmen@rconline.net
E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?
   - [X] Yes - **Proceed to Question 2**
   - [ ] No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?
   - [ ] 0-25% of fires
   - [ ] 25-50% of fires
   - [X] 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?
   - [ ] Yes
   - [X] No

4. How often is foam used in training exercises?
   - [ ] Never
   - [ ] Weekly
   - [ ] Monthly
   - [ ] Quarterly
   - [ ] Semi-Annually
   - [X] Annually
   - [ ] Bi-Annually
   - [ ] Other (please specify): _____

5. How much foam is used per training event?
   - [X] Less than 5 gallons
   - [ ] 5 gallons
   - [ ] 5 to 10 gallons
   - [ ] More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?
   - [ ] Storm Sewer
   - [ ] Sanitary Sewer
   - [ ] On-Site Septic
   - [X] Ground
   - [ ] Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   3127 Hwy 44

OVER→

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	Chemgard	NO	<5gal	0	0
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Fire-Trol	Y	5gal.	0	5gal
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Paul Tine', Chief
Name and Title

Brimson Area VFD
Fire Department

218-848-2811 — 6-1-08
Phone Number — Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): We are in the Country and Have no City Sewer System

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Right out side the Fire Hall.

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	NA			
Class B Alcohol-Resistant (AR)-AFFF	NA			
Class B Protein	NA			
Class B Fluoroprotein (FP)	NA			
Class B Film-Forming Fluoroprotein (FFFP)	NA			
Class B AR-FFFP	NA			
Class A-B Hi Expansion Foam	NA			
Class A	Silv-ex	No	30 Gallons.	current
Training Foam	NA			
Other	NA			

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

NEAL HALL Chief
Name and Title

Brook PARK
Fire Department

320-420-9584 4-29-08
Phone Number Date

DNhall@ecenet.com
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _X_ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   We use it for grass Fire - We only Have Foam on 2 grass Rigs - We use it for Training out on grass Sand

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)		Yes	0-15 gals	0 this yr	10 to 15 gals
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A					
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jerry Voss Chief
Name and Title

Brooten Fire Dept.
Fire Department

320-248-9463 5-29-08
Phone Number Date

E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?
   - ✓ Yes - **Proceed to Question 2**
   - _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?
   - ✓ 0-25% of fires
   - _____ 25-50% of fires
   - _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?
   - _____ Yes
   - ✓ No

4. How often is foam used in training exercises?
   - _____ Never
   - _____ Weekly
   - _____ Monthly
   - _____ Quarterly
   - _____ Semi-Annually
   - ✓ Annually
   - _____ Bi-Annually
   - _____ Other (please specify): _____

5. How much foam is used per training event?
   - ✓ Less than 5 gallons
   - _____ 5 gallons
   - _____ 5 to 10 gallons
   - _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?
   - ✓ Storm Sewer
   - _____ Sanitary Sewer
   - _____ On-Site Septic
   - ✓ Ground
   - _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   CITY OF BROWNSVILLE

OVER→

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	SILVERX	YES	10GALS	✓	✓
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

WILLIAM BUHL FIRE CHIEF
Name and Title

BROWERVILLE
Fire Department

(320) 594-2201 — 6/2/08
Phone Number — Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

a member of: Inogen Environmental Alliance

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Tim Hoffman Fire Chief
Name and Title

Browns Valley
Fire Department

320-695-2461 4/28/08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   X Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually X Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   We train on a vacant lot next door to our fire hall
   202 S Mill St.

OVER→

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	N/A	No	0	0	0
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Silv-ex	Yes	2.5 Gallons	2.5 Gallons	2.5 Gallons
Training Foam	Silv-ex	Yes	2.5	2.5	2.5
Other	N/A	—	—	—	—

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

David K. Pike
Name and Title

Brownsdale Volunteer Fire Department
Fire Department

507-567-2616 5-30-08
Phone Number Date

Brownsdalefire@frontiernet.net
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

   X No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

   _____

   _____

(NOTE)- WE JUST PURCHASED A USED TRUCK FROM EDEN PRAIRE THAT HAS A 30 gal FOAM TANK BUT HAVE NOT USED IT YET.

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A					
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

GARY R. MEINERS - CHIEF
Name and Title

BROWNSVILLE FIRE DEPT
Fire Department

507-482-6703 5-28-08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Unknown

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Angus Hi Combat	no	less than 5	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Morris J Gasow Chief
Name and Title

Brownton Fire Dept P.O. Box 406 Brownton MN 55312
Fire Department

(320) 328-5309 5-4-08
Phone Number Date

bfd@myclearwave.net
E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ✓ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   ✓ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually ✓ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   ✓ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   ✓ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ✓ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   309 ATLAS CIR STATION 2

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Angus	Yes.	5 gal	Some
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Robin Barfknecht - Fire chief
Name and Title

Buffalo Fire
Fire Department

763-238-5415 4-29-08
Phone Number Date

Firechief@cityofbuffalo.mn.org
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _X_ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _X_ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _X_ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   315 North Main Street, Buffalo Lake, Mn.
   Intersection of Main Street and Church Street.

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	3M Light Water	Yes	< 5 gallons	Current
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Angus Hi-Combat A	Yes	5-10 gallons	Current
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Gayle Deal - Fire Chief
Name and Title

Buffalo Lake Fire Dept.
Fire Department

320-833-2374 — 4-27-08
Phone Number — Date

blfdfirechief@hotmail.com
E-Mail Address

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5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _X_ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _X_ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _X_ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   702 Saville Ave

OVER→

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5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Angus Foreman's	Yes	30	10	10
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Michael J Lupa
Name and Title

Buhl Fire Dept
Fire Department

218-258-2237 — 10/3/08
Phone Number — Date

buhlfiredepartment@yahoo.com
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires X 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons X 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Majority @ training facility jointly owned by Burnsville, Apple Valley, Eagan + Lakeville. Located at intersection of Cliff Road and River Ridge Blvd. in Burnsville.

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5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	Ansul AFFF/ATC 3/6	yes	60 gal.	current
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein	0			
Class B Fluoroprotein (FP)	0			
Class B Film-Forming Fluoroprotein (FFFP)	0			
Class B AR-FFFP	0			
Class A-B Hi Expansion Foam	0			
Class A	Silvex	yes	140 gal.	current
Training Foam	Ansul (From MAC File)	yes	55 gal.	historic
Other	0			

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Dan Hove, Asst. Chief
Name and Title

Burnsville
Fire Department

952 895 4572 5/5/08
Phone Number Date

dan.hove@ci.burnsville.mn.us
E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

_____
Name and Title

_____
Fire Department

_____
Phone Number Date

_____
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ✓ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually ✓ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   ✓ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ✓ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Buyck Volunteer Fire Dept.
   8035 Off-Buyck Rd
   Buyck, MN 55771

a member of: Inogen Environmental Alliance

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   X Other (please specify): Each year could be different Maybe 2-3 Times

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Each training foam is used is different. It may be at the hall, it maybe at a live burn, it maybe at an automotive repair yard

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silv-EX	yes	10-15 Gal	10-15 Gal
~~Training Foam~~	F 500	yes	5 Gal	5 Gal
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jeff Thorpe
Name and Title

Jeff Thorpe Chief
Fire Department

Byron Fire — 5/7/09
Phone Number — Date

507 775 2603
E-Mail Address djthorpe06@Gmail.com

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5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   X Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): NA

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): NA

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   NA

OVER→

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	Silvex	no	5 gals	no	no
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A					
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Brad Karjala Chief

Name and Title

Calumet Fire Dept

Fire Department

247 7931

Phone Number

Date

CAIFD@marble mn.com 6-8-08

E-Mail Address

a member of: Inogen Environmental Alliance

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires ✓ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   ✓ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   ✓ Other (please specify): When we first got the pumper

5. How much foam is used per training event?

   ✓ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ✓ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   N/A

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Silv-ex	Yes	?	?	?
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Donny Ziebarth Chief
Name and Title

Cambridge
Fire Department

763-689-4370 Cell 612-282-5192 6-3-08
Phone Number Date

Ziebarth1956@Yahoo.Com
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _d_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _X_ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Varies everytime we do it.

OVER→

a member of: Inogen Environmental Alliance

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam	?		510		
Class A					
Training Foam	?	X	5gl		
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

LARRY DUIS Chief
Name and Title

Canby Fire Dept
Fire Department

507-223-5637 6/5/08
Phone Number Date

lduis@frontiernet.net
E-Mail Address

a member of: Inogen Environmental Alliance

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ☒ Yes - **Proceed to Question 2**

   ☐ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ☒ 0-25% of fires ☐ 25-50% of fires ☐ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   ☐ Yes

   ☒ No

4. How often is foam used in training exercises?

   ☐ Weekly ☐ Monthly ☐ Quarterly

   ☒ Semi-Annually ☐ Annually ☐ Bi-Annually

   ☐ Other (please specify): _____

5. How much foam is used per training event?

   ☒ Less than 5 gallons ☐ 5 gallons ☐ 5 to 10 gallons

   ☐ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   ☐ Storm Sewer ☐ Sanitary Sewer ☐ On-Site Septic ☒ Ground

   ☐ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	ChemGuard	Yes	30 gal	same
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Laird Erickson — Fire Chief
Name and Title

Canosia
Fire Department

218-729-6211 — 28 April 08
Phone Number — Date

Canosia Fire @ Yahoo.com
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   ✓ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

   _____

   _____

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A					
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jon P. Nordsving Chief
Name and Title

Canton V.F.D.
Fire Department

507-743-5000 5/30/08
Phone Number Date

E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   ____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ✓ 0-25% of fires ____ 25-50% of fires ____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   ____ Yes

   ✓ No

4. How often is foam used in training exercises?

   ____ Weekly ____ Monthly ____ Quarterly

   ____ Semi-Annually ✓ Annually ____ Bi-Annually

   ____ Other (please specify): _____

5. How much foam is used per training event?

   ____ Less than 5 gallons ____ 5 gallons ✓ 5 to 10 gallons

   ____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   ____ Storm Sewer ____ Sanitary Sewer ____ On-Site Septic ✓ Ground

   ____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   FIRE HALL PARKING LOT 100 4TH ST N CARLTON, MN 55718 (VEHICLE FIRE)

   PARKING LOT 4TH ST N & SOUTH AVE TRAILER HOUSE TRAINING BURN

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	SAFE GUARD	YES	10 gal	Both
Training Foam	SILVEX	YES	10 gal	Both
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Steve White Chief
Name and Title

CARLTON
Fire Department

218-384-4158 4-28-08
Phone Number Date

carltonfirechief@hotmail.com
E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   ____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires ____ 25-50% of fires ____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   ____ Yes

   _X_ No

4. How often is foam used in training exercises?

   ____ Weekly ____ Monthly ____ Quarterly

   ____ Semi-Annually _X_ Annually ____ Bi-Annually

   ____ Other (please specify): _____

5. How much foam is used per training event?

   ____ Less than 5 gallons ____ 5 gallons _X_ 5 to 10 gallons

   ____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   ____ Storm Sewer ____ Sanitary Sewer ____ On-Site Septic _X_ Ground

   ____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   RAILROAD RIGHT OF WAY BY 8 RAILROAD ST N.W.

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	ANGUS FIRST STRIKE	YES YES	0-5 GAL 0-5 GAL	HISTORIC
Class B Alcohol-Resistant (AR)-AFFF	ANSULITE	NO	0	CURRENT
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	SILVEX	YES	20-25	CURRENT
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

TIMOTHY A REIPLINGER — FIRE CHIEF
Name and Title

CASS LAKE VOLUNTEER RURAL FIRE ASSN.
Fire Department

218-335-6195 — 4-28-08
Phone Number — Date

CLFIRE@ARVIG.NET
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires ✓ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   ✓ Other (please specify): Rarely

5. How much foam is used per training event?

   ✓ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ✓ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Varies - do not usually use foam on training.

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	3M	No	Less than 1gal	historic
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Pioneer	No	20 gal	historic
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Milo Bennett
Name and Title

Centennial Fire District
Fire Department

651-784-7472
Phone Number

Date

cfdchief01@comcast.net
E-Mail Address

4-29-08

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _X_ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _X_ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   PARK PLACE CUL-DE-SAC

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	ANSULITE ARC 3X6	NO	NONE	
Class B Alcohol-Resistant (AR)-AFFF	〃	NO	NONE	
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	ANGUS HIGH COMBAT	YES	50 GAL	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

GREGG GESKE CHIEF
Name and Title

CHANHASSEN
Fire Department

CHANHASSEN 5/5/08
Phone Number Date

GAGESKE@WATERSCO.COM
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires X 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   285 ENGLER BLVD

   CHASKA FIRE STATION

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	Hi COMBAT	NO	0	Historic use
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Hi COMBAT	Yes	20 Gallons	Fires / Training
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

TIM WIEBE FIRE CHIEF
Name and Title

CHASKA
Fire Department

952. 448-2990 4-28-08
Phone Number Date

twiebe@chaskamn.com
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ✓ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually ✓ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   ✓ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ✓ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Behind Fire Hall @ 9831 Hwy 37

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Cilvex	Just to check systems	<5gall	average
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Keith Archambeau Chief
Name and Title

Cherry
Fire Department

218-742-3554 / 218-258-3598 5/5/08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires ✓ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   ✓ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly ✓ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   ✓ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ✓ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   VARIOUS LOCATIONS IN FIRE DISTRICT. FOR HOUSE BURNS. TRAINING SIZES/BURNS DONE ON LIBERTY LANE IN CHISAGO CITY.

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5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	ANGUS HIGH COMBAT A	Y		HOUSE FIRES / VEHICLE FIRES
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

BRUCE M. PETERSON FIRE CHIEF
Name and Title

CHISAGO CITY FIRE DEPT.
Fire Department

651-257-4162 5-13-08
Phone Number Date

N/A
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _X_ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _X_ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _X_ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   varied locations in Town

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	X SIL-VEX	YES	10 Gallon		
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Bob Brown
Name and Title

CHISHOLM FIRE
Fire Department

218 254-7921 06-04-08
Phone Number Date

SAS bob @ FNBCNET.COM
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires ✓ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   ✓ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   ✓ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   ✓ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ✓ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Athletic field, Chokio, 3rd St W & 4 Ave. So.

   Sec. 25 Leonardsville Township, Traverse Co. - (Empty farm place)

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Argus	yes	10 gal.	current
Training Foam				
Other	Silv-ex - A	yes	10 gal.	current

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Bruce Quackenbush Fire Chief
Name and Title

Chaska Fire Dept., MN
Fire Department

320 324-7450 5-5-08
Phone Number Date

bkquack@fedtel direct.net
E-Mail Address

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?
   - X Yes - **Proceed to Question 2**
   - _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?
   - X 0-25% of fires
   - _____ 25-50% of fires
   - _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?
   - _____ Yes
   - X No Built in tank but not compressed

4. How often is foam used in training exercises?
   - _____ Weekly
   - _____ Monthly
   - _____ Quarterly
   - _____ Semi-Annually
   - X Annually
   - _____ Bi-Annually
   - _____ Other (please specify): _____

5. How much foam is used per training event?
   - _____ Less than 5 gallons
   - X 5 gallons
   - _____ 5 to 10 gallons
   - _____ More than 10 gallons (please specify): would use more if not for cost

6. In training, where does the spent foam go?
   - X Storm Sewer
   - _____ Sanitary Sewer
   - _____ On-Site Septic
   - _____ Ground
   - _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.
   in front of firehall front Street Claremont Mn.

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5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	3M	✓	20gal?	
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Arsenal Wet water		5gal	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jeff Cowell 2nd Asst. Chief Training Officer
Name and Title

Claremont
Fire Department

507-528-2701 4-30-2008
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _X_ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   520 425 ST City Stage age area

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5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	~~See~~ Silv-ex	yes	5gal.per yr	Current
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Dick Marthaler Fire Chief
Name and Title

Clarkfield
Fire Department

320-669-4473 5-9-08
Phone Number Date

Clarkfieldfd@frontiernet.net
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Bare Ground close to Fire Station

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	?	yes	Less 5 gal.	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Carl Anderson

Name and Title

Clarks Grove

Fire Department

507-256-4106

Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   __X__ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires __X__ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   __X__ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   __X__ Other (please specify): NEVER

5. How much foam is used per training event?

   __X__ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   X Other (please describe): DOES NOT Apply

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   N/A

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5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	ANGUS	NO	25 GALLONS	CURRENT
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

RON KOREN CHIEF CLEAR LAKE FIRE/RESCUE
Name and Title

CLEAR LAKE FIRE/RESCUE
Fire Department

320-743-5638 4/28/08
Phone Number Date

CL FIRE @ FRONTIERNET.NET
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   __X__ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   __X__ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   __X__ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   __X__ Other (please specify): NO TRAINING WITH FOAM

5. How much foam is used per training event?

   __X__ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): N/A

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other	NONE ON HAND CURRENTLY			

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

DOUG NIETERS CHIEF
Name and Title

CLEARWATER MN
Fire Department

320 558 6561 4/24/08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ✓ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   X Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually X Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Foam training has never been at the same location ever.

OVER→

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Sylvex	✓	2gal	yes	No
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Mike Jacoby Chief
Name and Title

Clements Fire
Fire Department

507 692 2105 5-28-08
Phone Number Date

[redacted]
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   2146 Old North Shore Rd - Fire Hall #1

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam	Chemguard Plus	yes	Less 5Gal.	Historic
(Class A)	Chemguard First FC	Not Yet	none yet	Future Use
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Robert Engelson Chief
Name and Title

Clifton Volunteer Fire Department
Fire Department

(218) 525-6819 May 7, 2008
Phone Number Date

Bob.Engelson@newpagecorp.com
E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually X Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons X 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   City Gravel Pit - Armory Rd Cloquet

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	Angus	No	Less than 10 gal	Both
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Angus	No	Less 10 gal	Both
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jim Langenbrunner Fire Chief
Name and Title

Cloquet Fire Dept
Fire Department

218-879-6514 4-28-08
Phone Number Date

James_langenbrunner@Hotmail.com
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires X 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   X Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons ✓ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ✓ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

   _____

   _____

OVER→

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	CHEMGARD 3% (MARICHEM)		10-15		
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	SILVEX		50-80		
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

DAVID TINGUST / FIRE CHIEF
Name and Title

CROSSET FIRE
Fire Department

218-378-5837
Phone Number

Date

cohmullo@paulbunyan.net
E-Mail Address

5/27/08

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _X_ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _X_ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _X_ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   27 Red River Ave S Cold Spring MN 56320
   Rocori middle School North Parking Lot main ST.
   2nd Ave and 2nd ST N on End of 2nd St N
   City maintnence Shop 2nd Ave NE
   10th ST NE and 11th St NE

OVER→

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	Triex 3%	NO	0-10 gallons	Yes	Yes
Class B Alcohol-Resistant (AR)-AFFF	Angus ATF 3-6%	NO	0	Yes	NO
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Silvex 1% - 1%	yes	approx 30 gallons	yes	yes
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Chris Hofmann Captain
Name and Title

Cold Spring
Fire Department

320-250-3220 5/27/08
Phone Number Date

ChofmannQ mywoo.com
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   1450 CO. RD. 14 - COLVILL FIRE DISTRICT

   IRON LAKE ROAD - HOUSES FOAMED DURING HAM LAKE FIRE ON THE GUNFLINT TRAIL SPRING 2007

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	SILV-EX	YES	2-3 gallons	current
Training Foam				
Other	DAWN DISHWASHING LIQUID	YES	5 gallons	current

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

PAUL McFARLANE
Name and Title

COLVILL FIRE DEPT.
Fire Department

218-387-9404 — 4-28-08
Phone Number — Date

CVFD96 @ BOREAL.ORG
E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _X_ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _X_ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   This varries from year to year. The last training was in the 100 block of North Rail Road Street in Comfrey.

a member of Inogen Environmental Alliance

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	Ansulite 3x3	yes	5 gal.	current
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silvex	yes	5 gal	current
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Mark O.Warner, Fire Chief
Name and Title

Comfrey Fire & Rescue
Fire Department

507-877-4405 — 1 May 2008
Phone Number — Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually X Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   FIRE STATION @ 1199 - 121 Ave N.W
   CCOM RAPIDS

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	NAT. FOAM	N		
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	SILV-EX	N		
Training Foam	AQUA-ECO	Y	20 GAL	
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

G. Johnston Asst. CHIEF
Name and Title

COON RAPIDS
Fire Department

763-767-6477 5-5-8
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?
   - (O) Yes - **Proceed to Question 2**
   - ( ) No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?
   - (O) 0-25% of fires
   - ( ) 25-50% of fires
   - ( ) 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?
   - (O) Yes
   - ( ) No

4. How often is foam used in training exercises?
   - ( ) Weekly
   - ( ) Monthly
   - (O) Quarterly
   - ( ) Semi-Annually
   - ( ) Annually
   - ( ) Bi-Annually
   - ( ) Other (please specify): _____

5. How much foam is used per training event?
   - ( ) Less than 5 gallons
   - (X) 5 gallons
   - ( ) 5 to 10 gallons
   - ( ) More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?
   - (O) Storm Sewer
   - ( ) Sanitary Sewer
   - ( ) On-Site Septic
   - (O) Ground
   - ( ) Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Varies Som Trng to Trng

a member of: Inogen Environmental Alliance
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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	5:/Vex	Yes	5gal	Current
Training Foam	3:/Vex	"	"	"
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jon Fruetel Chief
Name and Title

Cosmos mn
Fire Department

(320 - 583 - 1840
Phone Number

Date 5-7-08

cfd 540@hotmail.net
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   X Other (please specify): Very Seldom

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   X Other (please describe): on the grass at a Station 2

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   St 2 8641 80th St S
   Cottage Grove, MN

OVER→

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF	3M	X	5 gallons		
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	ANGUS	NO	30 gallons		
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Bob Byerly Fire Chief
Name and Title

Cottage Grove Fire
Fire Department

651-458-2860 5/27/08
Phone Number Date

bbyerly@cottage-grove.org
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   X Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

   _____

   _____

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	3M	no			yes
Class B Alcohol-Resistant (AR)-AFFF	Ansulite Arc	no	20	yes	
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Silvex	no	20	yes	
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Dale Louwagie Chief
Name and Title

Cottonwood Fire Department
Fire Department

507 829-1220 6/2/08
Phone Number Date

dlou@Frontiernet.net
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _X_ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _X_ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _X_ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   USUALLY AT THE FIRE HALL
   5592 HWY 210
   CROMWELL MN 55726

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	~~SILV-EX~~			
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
(Class A)	SILV-EX	YES	40 GAL	CURRENT
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

STEVE BRIDGE FIRE CHIEF
Name and Title

CROMWELL FIRE
Fire Department

218 591-2547 5/8/08
Phone Number Date

sbridge@usg.com
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _X_ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _X_ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   By crosby city Public works bld, on dirt lot

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Hi-Combat A ANGUS	yes	5 gal.	10-15 gal. yearly
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Chuck Leonhardt Chief
Name and Title

Crosby Fire
Fire Department

218-546-5474 / 218-838-2185-Cell 5/3/08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ✓ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually ✓ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   ✓ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer ✓ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   City/County Joint Maintenece Facility Co Rd 3 South Crosslake Mn

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF		Yes	10	✓	
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A					
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Keith W. Anderson — Chief
Name and Title

Crosslake
Fire Department

218-692-3558 — 06/10/08
Phone Number — Date

CFD@Crossfire.Net
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

   X No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

ARTHUR ELMORE CHIEF
Name and Title

CULVER VOL. FIRE DEPT
Fire Department

218-453-5674 — 4-28-08
Phone Number — Date

E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _X_ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   At the Cheyenne Fire Hall on the south side of the building.

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Angus	Yes	1/2 5a bucket	none
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jason Holmvig Assistant Chief
Name and Title

Cyrus Fire Department
Fire Department

218 330 4126 5/4/08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires X 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   X Other (please specify): None

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

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5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silvex	No	not documented	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Philip Isaacson Asst. Chief

Name and Title

Dellan Fire

Fire Department

Phone Number

5/6/08

Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?
   - X Yes - **Proceed to Question 2**
   - _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?
   - X 0-25% of fires
   - _____ 25-50% of fires
   - _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?
   - _____ Yes
   - X No

4. How often is foam used in training exercises?
   - _____ Weekly
   - _____ Monthly
   - _____ Quarterly
   - _____ Semi-Annually
   - _____ Annually
   - X Bi-Annually
   - _____ Other (please specify): _____

5. How much foam is used per training event?
   - X Less than 5 gallons
   - _____ 5 gallons
   - _____ 5 to 10 gallons
   - _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?
   - _____ Storm Sewer
   - _____ Sanitary Sewer
   - _____ On-Site Septic
   - X Ground
   - _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   VARIOUS PLACES

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	ANSUL Lite	yes	Less 5gal	Current
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	1ST Defense	yes	Less 5gal	Current
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Ronald Marks Chief
Name and Title

Darfur Fire Dept
Fire Department

Phone Number

Date: 4-30-08

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _X_ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _X_ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   833 Curran St.

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Angus	x	5 gal	yes	yes
Training Foam	Aqua Eco				
Other		x	1 stick	yes	No

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Mitch, Brian, Jon, Kevin, Kurt, Dave, Dale - (officers)
Name and Title

Dassel FD -
Fire Department

320-275-3206 6-2-08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   X Other (please specify): ABOUT ONCE EVERY 4 YEARS

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   FIRE HALL 102 BAKER ST

   DEER CREEK

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	SIL-UEX	YES	LESS THAN 1 GALLON	SELDOM
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

DAN HENDERSHOT FIRE CHIEF
Name and Title

DEER CREEK FIRE & RESCUE
Fire Department

218 462-2543 4-29-08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually X Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   By Deerwood City Maintenance Building on Industrial Road

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	Angus 3/6%	X No	Less than 5 gallons	yes
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Angus Hi Combat 1-1.0%	yes	Less than 5 gallons	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

John V. Taylor Chief
Name and Title

Deerwood
Fire Department

218-534-3480 4-29-08
Phone Number Date

dfd@emily.net
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

   _X_ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

a member of:
Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Dennis Wick Chief
Name and Title

Delavan Fire Dept.
Fire Department

507-456-0894 5-5-08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

   _✓_ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

   _____

   _____

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A					
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Randy Stephenson Fire Chief
Name and Title

Dexter Vol. Fire Dept.
Fire Department

507-584-6422 (W) 5/24/08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam	3-6% AFFF Fire Fighting Foam	NO			
Class A	Silv-ex 0.1 to 1.0%	NO			
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Kurt Kennedy Chief
Name and Title

Pillsworth Fire Department
Fire Department

(218) 287-2248 5-28-8
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _X_ Other (please specify): NOT aLOT maybe ONCE a year

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   709 1st AVE NW Fire hall

OVER→

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   CR 2 FARM field – most Recent.
   ~1 mile east of 10
   south side of CR2
   Never same place twice.

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	3M Light Water	Yes	5gal	Williams Bros. pipeline
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				Terminal ~ 6mi away - use AFFF.
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	~~High~~ Angus	Yes	5gal	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Roger P. Imke, Chief
Name and Title

Dover
Fire Department

507-932-3384 4/30/08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   OLD BRICK DIAMOND - N. SEELEY AVE

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	SILO-EX	YES	2 GAL	
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	SILO-EX	X	2 GALLONS	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

ALAN NELMES CHIEF
Name and Title

DUNNELL - LAKE FREMONT
Fire Department

507-695-2950 4-28-08
Phone Number Date

DUNNELL FIRE @ YAHOO.COM
E-Mail Address

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5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _X_ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _F_ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _X_ Other (please specify): Very rare - cost.

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   all over

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Silv-ex	Y	250g	Y	Y
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Mike Scott Chief
Name and Title

Eagan
Fire Department

651-675 5901 5-27-08
Phone Number Date

MScott@cityofEagan.com
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?
   - ✓ Yes - **Proceed to Question 2**
   - _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?
   - _____ 0-25% of fires
   - _____ 25-50% of fires
   - ✓ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?
   - ✓ Yes
   - _____ No

4. How often is foam used in training exercises?
   - _____ Weekly
   - _____ Monthly
   - _____ Quarterly
   - _____ Semi-Annually
   - ✓ Annually
   - _____ Bi-Annually
   - _____ Other (please specify): _____

5. How much foam is used per training event?
   - ✓ Less than 5 gallons
   - _____ 5 gallons
   - _____ 5 to 10 gallons
   - _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?
   - ✓ Storm Sewer
   - _____ Sanitary Sewer
   - _____ On-Site Septic
   - ✓ Ground
   - _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.
   City Park, by the Cemetary on CR. 27 N of Eagle Lake
   American legion lot on Parkway Ave

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silv-ex	50%	10-15 gal	Current
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Tim Rock Chief
Name and Title

Eagle Lake Fire
Fire Department

507 2573515
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually X Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons X 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   2022 CENTRAL AVE NE (Northland Comm. & Tech. College)

OVER→

a member of: Inogen Environmental Alliance

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Chemguard	YES	10 gal		
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Randy Gust Fire Chief
Name and Title

East Grand Forks Fire Dept.
Fire Department

218-773-2402
Phone Number Date

rgust@ci.east-grand-forks.mn.us
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   X Other (please specify): Hardly ever

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   X Other (please describe): Don't use for training

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

a member of Inogen Environmental Alliance

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Drexel Control-A	NO	2½gal	seldom
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jamie Sonnek Asst. Chief
Name and Title

Easton Fire
Fire Department

507-787-2545 5-13-08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _X_ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   In The City of Echo For Live Burn
   3 Mi. Le South & 2 West of Echo

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silv ex II	yes	5gal	For fire
Training Foam		yes	5gal	
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Alec Dirnberger Chief
Name and Title

Echo
Fire Department

507 935 4249 Cell 507 829 7240 4-29-08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires X 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   X Other (please specify): None

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): N/A

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): N/A

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   N/A

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Angus	no	30 gall.	typical
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Steve Koering
Name and Title

Eden Prairie Fire
Fire Department

952-949-8338
Phone Number

Date

SKoering@edenprairie.org 05/06/08
E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ___X___ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ___X___ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   ___X___ Yes

   _____ No

4. How often is foam used in training exercises?

   ___X___ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually ___X___ Annually _____ Bi-Annually

   _____ Other (please specify): we haven't Trained with foam in a while

5. How much foam is used per training event?

   ___X___ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   we don't use very much at all maybe 15 to 20 gallons a year some time it don't get used more than a couple times a year

OVER→

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	[redacted]		[redacted]		
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Hi COM Bat		1520		
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Joe Thielen Fire Chief
Name and Title

Eden Valley Fire
Fire Department

320 453 5801 6-2-08
Phone Number Date

Eden Valley Fire @ hotmail.com
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   ____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ____ 0-25% of fires ✓ 25-50% of fires ____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   ____ Yes

   ✓ No

4. How often is foam used in training exercises?

   ____ Weekly ____ Monthly ____ Quarterly

   ____ Semi-Annually ____ Annually ____ Bi-Annually

   ✓ Other (please specify): almost never

5. How much foam is used per training event?

   ✓ Less than 5 gallons ____ 5 gallons ____ 5 to 10 gallons

   ____ More than 10 gallons (please specify): ____

6. In training, where does the spent foam go?

   ____ Storm Sewer ____ Sanitary Sewer ____ On-Site Septic ✓ Ground

   ____ Other (please describe): ____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   VARIOUS LOCATIONS

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
(Other)	F-500	✓	50 gal	50 gal

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

MARTY SCHEERER
Name and Title

EDINA
Fire Department

952. 826-0332 5-2-08
Phone Number Date

mscheerer@ci.edina.mn.us
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?
   - X Yes - **Proceed to Question 2**
   - _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?
   - X 0-25% of fires
   - _____ 25-50% of fires
   - _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?
   - _____ Yes
   - X No

4. How often is foam used in training exercises?
   - _____ Weekly
   - _____ Monthly
   - _____ Quarterly
   - _____ Semi-Annually
   - _____ Annually
   - X Bi-Annually
   - _____ Other (please specify): _____

5. How much foam is used per training event?
   - X Less than 5 gallons
   - _____ 5 gallons
   - _____ 5 to 10 gallons
   - _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?
   - _____ Storm Sewer
   - _____ Sanitary Sewer
   - _____ On-Site Septic
   - X Ground
   - _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

FIRE STATION GROUNDS

39828 ST Hwy 113
WAUBUN MN, 56589

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)		No		
Class B Alcohol-Resistant (AR)-AFFF		No		
Class B Protein		No		
Class B Fluoroprotein (FP)		NO		
Class B Film-Forming Fluoroprotein (FFFP)		NO		
Class B AR-FFFP		NO		
Class A-B Hi Expansion Foam		NO		
Class A		YES	5→10 GAL	
Training Foam		NO		
Other		NO		

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

FRED SOCH FIRE FIGHTER
Name and Title

ELBOW-TULABY LAKES V.F.D
Fire Department

5-7-08
Phone Number Date

ETFD@ARVIG.NET
E-Mail Address

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   X Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

_____

_____

_____

_____

_____

_____

OVER→

a member of: Inogen Environmental Alliance

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	SILVEX	only Hire	10 gal	0	
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

GARY Wilde CHIEF
Name and Title

ELIZABETH
Fire Department

218-770-9344 6-2-08
Phone Number Date

gwilde1@yahoo.com
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ✓ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   ✓ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons ✓ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   ✓ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ✓ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   415 JACKSON AVE, ELK RIVER
   FIRE STATION #1

OVER→

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Angus	yes	30 gallons	30	30 gallons Approx per year
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Bruce A West, Fire chief
Name and Title

Elk River
Fire Department

763-635-1100 5/27/08
Phone Number Date

bwest@ci.elk-river.mn.us
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ✓ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually ✓ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   ✓ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ✓ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   At Melrude Firehall 1763 Melrude Rd
   Melrude Mn 55766

OVER→

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	LS Foam				
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A					
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Brady Miller Asst Chief
Name and Title

EVID (Elsburg)
Fire Department

482-3477 - "No one there" 6-3-08
Phone Number Date

N.
E-Mail Address

a member of: Inogen Environmental Alliance Elsvfd@Arrowhead Tel. Net

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Elmer Town Hall ~~[redacted]~~ 7812 Hwy 5 Maderiands MN 55706

   Just installed the system in 2007 Trained once using about 1 gallon of training foam

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	Chemguard	NO	None	None
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam	Chemguard	Yes	1gallon	1gallon
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Todd Matvey - Fire Chief
Name and Title

Elmer Fire department
Fire Department

218-427-2324 / 218 349 4826 — 4-28-08
Phone Number — Date

~~Todd~~ TMATVey @msn.com
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

   _X_ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

   _____

   _____

OVER→

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A					
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Gary Deters Chief

Name and Title

Elrosa FIRE Dept.

Fire Department

320-697-5544

Phone Number

Date 5-27-08

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _X_ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _X_ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   MINERS DRIVE

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	ANGUS FOREXPAN S SL-VEX	X	30 GAL	CURRENT
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

CHIEF LOUIS GERZIN
Name and Title

ELY FIRE
Fire Department

218-365-3227
Phone Number Date

FIRECHIEF @ ELY. MN. US
E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ✓ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   ✓ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event? N/A

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go? N/A

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

   _____

   _____

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Silv-ex	NO	less than 1gal	None for 8 years	less than 5 gallons for lever.
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

LARRY PETERSON - Chief
Name and Title

Emmons
Fire Department

507-297-5553 Chief's Home # 6-2-08
Phone Number Date

ldpeters@smig.net
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

   _X_ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Randy Moritz Chief
Name and Title

Emily Vol Fire Dept
Fire Department

218- ~~320~~ 763- 2480 5-1-08
Phone Number Date

derk@emily.net
E-Mail Address

a member of: Inogen Environmental Alliance

6910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons X 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   X Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   On the ground right behind our Fire Hall ↳ 106 State St.,
   East Side Addition in a Cul de Sac. on Council Circle 2004 Addn
   East of town East end of Main

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other	Universal Gold* #170390			

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Tim Anderson 2nd Assitant Chief
Name and Title

Evansville
Fire Department

320-834-4995 5-2-08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

   _X_ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

   _____

   _____

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Chief Steve Shelton
Name and Title

Eveleth Paid On Call
Fire Department

218 744 7550 — 5-8-08
Phone Number — Date

E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _X_ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _X_ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Multiple training locations - house barns, parking lots, training facilities.

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Class B foam NOT used in training – Silv

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silvex	Yes	20gal	current
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Scott Gerber, Fire Chief
Name and Title

Excelsior Fire District
Fire Department

952-960-1650 4-28-08
Phone Number Date

sgerber@excelsiorfire.org
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly X Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   city shop
   417 E Margaret St
   Fairmont MN 56031
   parking lot

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5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Name and Title

Fairmont

Fire Department

Phone Number Date

E-Mail Address

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _X_ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _X_ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   2077 Larpenter E Falcon Heights 55113 MN.
   in Parking Lot of Fire Station

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	THUNDERSTORM 3M	YES YES	LESS THAN 5 GAL LESS THAN 5 GAL	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

CLEM KUEHNJETZ FIRE CHIEF
Name and Title

FALCON HEIGHTS
Fire Department

651-792-7635 4/29/08
Phone Number Date

CKUEHNJETZ@FALCONHEIGHTS.ORG
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

   __X__ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

   _____

   _____

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A					
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Rodney Dahlsad — Chief
Name and Title

Felton Community Fire Dept
Fire Department

218-494-3656 cell 701-371-7728
Phone Number — Date

roddah@msn.com — 5-28-2008
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires ✓ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly ✓ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   ✓ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ✓ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Finland, Minnesota Area - Fire Hall
   & gravel pits etc

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	3 M	yes	20 gallons	H. U
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Peter Walsh - Chief

Name and Title

Finland Fire Dept

Fire Department

218-353 7680 — 25 April 08

Phone Number — Date

pctaw911@hotmail.com

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   X Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Typically Fisher City Shop Gated Area, 4th St North Fisher MN.

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	~~Ansulite~~				
Class B Alcohol-Resistant (AR)-AFFF	Ansulite	No	2 gal	Yes	
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Silvex	Yes	10 gal	Yes	[redacted]
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Fire Chief Christopher Klawitter
Name and Title

Fisher Fire & Rescue
Fire Department

218 - 891 - 2207 6/3/08
Phone Number Date

klaw@rrv.net
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ✓ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): NONE

5. How much foam is used per training event?

   0 Less than 5 gallons 0 5 gallons 0 5 to 10 gallons

   0 More than 10 gallons (please specify): 0

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

a member of: Inogen Environmental Alliance

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	SILY-EK	NO	15 gal	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

James MASon Chief
Name and Title

Floodwood Volunteer
Fire Department

Office 218 476-2238 Home 218 476-2557 4-29-08
Phone Number Date

Floodwood Fire @ Hotmail.com
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   ___ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires ___ 25-50% of fires ___ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   ___ Yes

   X No

4. How often is foam used in training exercises?

   ___ Weekly ___ Monthly ___ Quarterly

   ___ Semi-Annually X Annually ___ Bi-Annually

   ___ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons ___ 5 gallons ___ 5 to 10 gallons

   ___ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   ___ Storm Sewer ___ Sanitary Sewer ___ On-Site Septic X Ground

   ___ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   IT VARIES different LOCATIONS

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	X	Yes	1-2 gals	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

James Mikelson Chief
Name and Title

Foreston F.D.
Fire Department

320-294-5707 3-26-08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _X_ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _X_ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   North side of 10 ± St and west of Polk County Rd 30 in Fosston MN

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	—			
Class B Alcohol-Resistant (AR)-AFFF	—			
Class B Protein	—			
Class B Fluoroprotein (FP)	—			
Class B Film-Forming Fluoroprotein (FFFP)	—			
Class B AR-FFFP	—			
Class A-B Hi Expansion Foam				
Class A	ChemGuard	yes	25 gals	Structure Fires
Training Foam	—			
Other	—			

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

James (Jim) Hagenes Chief
Name and Title

Fosston F.D.
Fire Department

218-435-7695(w) 5-10-08
Phone Number Date

firehall@gvtel.com
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   X Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually X Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other F-500	Hazard Control Technologies	yes	5gal	

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Brent Miller Fire Chief
Name and Title

Fountain Fire Dept
Fire Department

507-268-4923 5-5-08
Phone Number Date

E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   X Other (please specify): Maybe 1 time a year if That!

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   We Have Never used Foam in The ~~Ba~~ Past 5 Years. So I could Not tell You when The Last Time we Trained with it

OVER→

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Angus	NO	15 gal	0	?
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

John Gilk Fire Chief
Name and Title

Freeport
Fire Department

320-836-2411 5-27-08
Phone Number Date

Freeportfd @ albanytel.com
E-Mail Address

This is the 2nd time I filled this out

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _X_ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _X_ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   SIDE LAKE COMMUNITY CENTER
   [redacted] N HWY 5 SIDE LAKE, MN 55781

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	SILVEX	YES	LESS THAN 5 GAL	BOTH
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

PETER LESCHAK
Name and Title

TOWN OF FRENCH VFD & EMS
Fire Department

218-254-3208 4-28-08
Phone Number Date

PLESCHAK@CPINTERNET.COM
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _X_ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _X_ Other (please specify): Not very often

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _X_ Other (please describe): Retention Pond

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   300 71st Ave

   Fridley, MN 55432

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	3M	Yes	0	Historic
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	ANSUL SILVEX	NO		CURRENT
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

JOHN BERG FIRE CHIEF
Name and Title

FRIDLEY
Fire Department

763-572-3610
Phone Number

Date

bergj@ci.fridley.mn.us
E-Mail Address

5/15/08

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ✓ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   ✓ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually ✓ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   ✓ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ✓ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   gravel pit

   Most of the use of foam is on car accident/fire

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	Ansulite ARC	No	<5gal	Current
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silv-ex	Yes	5-10gal	Current
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Shawn Ethridge, Secretary
Name and Title

Garfield Fire Department
Fire Department

320-834-2223 05/27/08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _X_ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

_____

_____

_____

_____

_____

_____

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF	ChemGuard	NO			
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	ANGUS	YES	1gal	X	X
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Dean Schons Fire chief
Name and Title

Gaylord Fire Dept
Fire Department

1-507-237-5483 05-28-08
Phone Number Date

gfire@myclearwave.net
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _X_ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Intersection of 1st Ave. N.W. & 1st St. N.W.
   " " 1st Ave. S.E. & 3rd St. S.E.
   City property 500 Block of Main Street West

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silv-ex	Yes	5-10 gal.	5-10 gal.
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Greg Bartsch / Fire Chief
Name and Title

Geneva Fire Department
Fire Department

507-256-4789 5-5-08
Phone Number Date

gbartsch@frontiernet.net
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires X 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   X Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons X 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   There are no specific areas for Training, every training is usually different location

OVER→

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)		No			
Class B Alcohol-Resistant (AR)-AFFF		No			
Class B Protein		No			
Class B Fluoroprotein (FP)		No			
Class B Film-Forming Fluoroprotein (FFFP)		No			
Class B AR-FFFP		No			
Class A-B Hi Expansion Foam		No			
Class A	Yes		30 gals	SAME	SAME
Training Foam		No			
Other		No			

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Steve Klukas Fire Chief
Name and Title

Gibbon Fire Dept.
Fire Department

507-834-6298 5-27-08
Phone Number Date

gibbonfirr@myclearwave.net
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   __X__ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   __X__ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   __X__ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually __X__ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   __X__ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic __X__ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Local High School grounds - Football Field

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	Ansul	Yes	less than 5 gallons	
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Craig Rayman Chief
Name and Title

Glenville MN. 56036
Fire Department

507 448 3916 May 12, 2008
Phone Number Date

raymanc@geschools.com
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _X_ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

a member of, Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply..

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Angus Fire Forexpan S	Yes	Less than 5gal	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

David Orlowski Chief
Name and Title

Glenwood Fire Department
Fire Department

320-760-4798 May 3, 2008
Phone Number Date

chiefdaveO@yahoo.com
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ✓ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   ✓ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons ✓ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   ✓ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ✓ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   7800 Golden Valley Road

OVER→

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF	Angus	Yes	20		
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Angus	Yes	50		
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Mark Kuhnly, Fire Chief
Name and Title

Golden Valley
Fire Department

763-593-8080 6-5-08
Phone Number Date

mkuhnly@ci.golden-valley.mn.us
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires X 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No built in Tank but does not use compressed air

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons X 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Goodland Community Center/Firehall
   13502 Community Center Drive
   Goodland, Minnesota

OVER→

a member of
Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Silv-ex	yes	25gal	25gal	25gal (only had for 3 years)
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

T.S. Russell Assistant Chief
Name and Title

Goodland Volunteer Fire Department
Fire Department

218-492-4137 5/28/08
Phone Number Date

Teeber@hughes.net
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

   _X_ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

DALE HANSON FIRE CHIEF
Name and Title

GOODRIDGE ARBA FIRE & RESCUE
Fire Department

218-378-4144 work 4-28-08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ✓ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   ✓ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   ✓ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   ✓ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ✓ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   City Dump.

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silv-ex	yes sometimes	20 To 30 gallons	100 gallons?
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Duane B Richardson Fire chief
Name and Title

Graceville Fire Dept.
Fire Department

320-748-7911 5-6-08
Phone Number Date

graccefiredept@Hotmail.com
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires X 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons X 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   ✓ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Depending on the Training - our Address
   is 1 NE 6th at G.R., MN 55744

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam	S.V- EX	YES	32 Pails	?
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Marlyn Halvorson 1st Asst. Chief

Name and Title

Grand Rapids Fire Department.

Fire Department

218- 355- 8174

Phone Number

Date 5/6/08

Mhalvorson@ci.grand-rapids.mn.us

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _X_ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

   _____

   _____

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Hi Combat A	No	10 gal.		
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Dean Stoeckman Fire Chief
Name and Title

Green Isle Fire Dept
Fire Department

507 326 3941 6-2-08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?
   - X Yes - **Proceed to Question 2**
   - _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?
   - _____ 0-25% of fires
   - X 25-50% of fires
   - _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?
   - X Yes
   - _____ No

4. How often is foam used in training exercises?
   - _____ Weekly
   - _____ Monthly
   - _____ Quarterly
   - _____ Semi-Annually
   - X Annually
   - X Bi-Annually
   - _____ Other (please specify): _____

5. How much foam is used per training event? 1-gallon at most-1/4 gallon
   - X Less than 5 gallons
   - _____ 5 gallons
   - _____ 5 to 10 gallons
   - _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?
   - _____ Storm Sewer
   - _____ Sanitary Sewer
   - _____ On-Site Septic
   - X Ground
   - _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.
   We Dont train that Much With foam our foam is set for 1% VV

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	Chemguard	✓	✓	
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Chemguard	✓	~~✓~~	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Ron Swanson Chief
Name and Title

Greenbush Fire Dept
Fire Department

218-689-1002 5-15-08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   A old Base ball Field - City Property

OVER→

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Sil-Vex	yes	5 gal or less/year	Total Use	
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Bill Beroschert Chief
Name and Title

Grey Eagle
Fire Department

320-285-2464 5-28-08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Angus Eco	X	5 gal	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Tim Dragt T.O.
Name and Title

Grove City 56243
Fire Department

320-857-2154 5-12-08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   X Other (please specify): Once /per Year

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Private Wood pile/Brush or wildland fires. No address available & Kept away from all water sheds!

a member of Inogen Environmental Alliance

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	N/A / MN/Brainard Wildland Fire Supply	Yes	less > 5 gal	> 5 gal / year
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Dan Baumann Fire Chief
Name and Title

Gunflint Trail V.F.D.
Fire Department

218-388-2203 4/28/08
Phone Number Date

dan@golden-eagle.com
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _X_ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _X_ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

_____

_____

_____

_____

_____

_____

OVER→

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	SILV 60	X	10GAL		
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

C R MOORE CHief
Name and Title

HACKENSACK AREA FIRE DEPT
Fire Department

218-675-6162 6-9-08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?
   - X Yes - **Proceed to Question 2**
   - _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?
   - _____ 0-25% of fires
   - _____ 25-50% of fires
   - X 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?
   - _____ Yes (1 CAFS unit on 1 Rescue Unit)
   - X No

4. How often is foam used in training exercises?
   - _____ Weekly
   - _____ Monthly
   - _____ Quarterly
   - _____ Semi-Annually
   - X Annually
   - _____ Bi-Annually
   - _____ Other (please specify): _____

5. How much foam is used per training event?
   - X Less than 5 gallons
   - _____ 5 gallons
   - _____ 5 to 10 gallons
   - _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?
   - _____ Storm Sewer
   - _____ Sanitary Sewer
   - _____ On-Site Septic
   - X Ground
   - _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   VARIOUS

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Sylvex	Yes	< 5gal	Both
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

DON KRUEGER, FIRE CHIEF
Name and Title

HAM LAKE
Fire Department

763-235-1665 4/30/08
Phone Number Date

dkrueger@ci.ham-lake.mn.us
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   181 BROADWAY

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP	ANGUS	YES	5 gal	
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

BRAD DROEGE Chief
Name and Title

HAMBURG FIRE DEPT.
Fire Department

952-467-3232 467-3178 4-28-08
Phone Number Date

BDROEGE500@AOL.COM
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _X_ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _X_ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _X_ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _X_ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _X_ Storm Sewer _X_ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   92 Hamel Rd (FIRE STATION) AND OTHER VARIOUS LOCATIONS

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	ANSUL SILVEX	X	300 gal	Current
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

H. BRANDON GUEST, CHIEF
Name and Title

HAMEL VOL FIRE DEPT
Fire Department

612 723 5400 — 14-MAY-08
Phone Number — Date

BRANDON.GUEST@HAMELFIRE.ORG
E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

   _X_ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Larry Mathis - Chairman
Name and Title

Hangaard
Fire Department

(218) 487-5358 5-1-08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Ball Field Parking Lot.

a member of:
Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Dan Kindt Chief
Name and Title

Hardwick Fire & Rescue
Fire Department

507-669-2491 4-28-08
Phone Number Date

dkindt@frontier.net
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons X 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   X Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Fire Hall, Main Aves.

   Brush Dump, East of INT. 13+ Gordon Road

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	~~Ansulite~~	~~Yes~~	~~under 5 gal~~	~~Current~~
Class B Alcohol-Resistant (AR)-AFFF	Ansulite	Yes	under 5 gal	Current
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Sil U-Ex	Yes	under 5 gal	Current Yes
Training Foam				
Other	Aqua-Ecc	Yes	1 stick	Current

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Bill Heanlon Chief
Name and Title

Harmony Fire Dept.
Fire Department

507-886-4600 D - (5211 Hall) 4-29-08
Phone Number Date

Harmony VFD@yahoo.com
E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ✓ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   ✓ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually MAY Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   MAY Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer A Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

   _____

   _____

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Silv-ex	N	None		
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Brandon Fleckenstein Fire Chief
Name and Title

Hartland Fire
Fire Department

507-845-2469 6/5/08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   __X__ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   __X__ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   __X__ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually __X__ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons __X__ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   __X__ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic __X__ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   multiple Locations

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	3M-Light H_2O ATC	Y	[illegible]	
Class B Alcohol-Resistant (AR)-AFFF	ANSULITE AFC	Y	—	
Class B Protein	NONE			
Class B Fluoroprotein (FP)	NONE			
Class B Film-Forming Fluoroprotein (FFFP)	NONE			
Class B AR-FFFP	NONE			
Class A-B Hi Expansion Foam	NONE			
Class A	ANGUS	Y	10 ss l	
Training Foam	NONE			
Other	F-500	Y		

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

John Townsend
Name and Title

Hastings Fire
Fire Department

651 480-6150 5-29-2008
Phone Number Date

Jtownsend@ci.hastings.mn.us
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _X_ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _X_ Other (please specify): Classroom only

5. How much foam is used per training event?

   _O_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _O_ Other (please describe): NA

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Classroom Only

OVER→

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Silvex	NO	Less than 500	Same	Same
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Gary Schultz Chief
Name and Title

Hawley Area Fire Dept.
Fire Department

218 483-4845 5-27-08
Phone Number Date

HFRAClub @Arvig.Net
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

   ___✓___ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

   _____

   _____

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A					
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Eric Knutson Chief

Name and Title

Hayward Fire Dept

Fire Department

507-402-1252 5-28-08

Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   __X__ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires __X__ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   __X__ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly __X__ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons __X__ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic __X__ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Location varies on drill

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Chemguard	yes	30gal	Historic
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Dana Blume – Secretary
Name and Title

Herman Fire Department
Fire Department

320-284-2137 – Dana's Home — 5-12-08
Phone Number — Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _X_ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   WE ONLY HAVE FOAM ON OUR GRASS FIGHTING RIG AND HAVE ONLY HAD FOR ONE YEAR. DUE TO FOAM EXPENSE TRAINING HAS BEEN KEPT TO HOW TO TURN ON AND OFF AND FLUSHING PUMP AND HOSE.

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	ANGUS	YES	5 GAL	CURRENT
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Steve Peterson, Chief
Name and Title

Hewitt Fire Department, PO Box 91, Hewitt, MN 56453 (Please correct address accordingly)
Fire Department

218.924.4255 (Chief's daytime number) 5/07/08
Phone Number Date

stevep@arvig.net
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   2320 Brooklyn, Dr. Hibbing, MN 55746

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silvex	No	5 gal	
Training Foam	F-500	Yes	5 gal	
Other	F-500	Yes	5 gal	20 gal

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Tony Pogorels Fire Chief
Name and Title

Hibbing
Fire Department

218-362-5966 5-5-08
Phone Number Date

tpogorels@ci.hibbing.mn.us
E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   __X__ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   __X__ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   __X__ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually __X__ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   __X__ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic __X__ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   700 block of Central ave in Hills, MN

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	ANSUL Silvex	Yes	Less than 5gal - 5gal. Annual,	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Derek Bundesen Sec.
Name and Title

Hills Area
Fire Department

507 - 962 - 3140 5-8-05
Phone Number Date

dbundy8@hotmail.com
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires X 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   X Other (please specify): none

5. How much foam is used per training event?

   none Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)		NO		
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silv-ex		10 Gals.	Vehicle/Wildland
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Steve Villebro Chief
Name and Title

Hill City Fire Dept.
Fire Department

218-697-8276 5-2-08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?
   - [X] Yes - **Proceed to Question 2**
   - [ ] No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?
   - [ ] 0-25% of fires
   - [ ] 25-50% of fires
   - [ ] 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?
   - [X] Yes
   - [ ] No

4. How often is foam used in training exercises?
   - [ ] Never
   - [ ] Weekly
   - [ ] Monthly
   - [ ] Quarterly
   - [ ] Semi-Annually
   - [ ] Annually
   - [X] Bi-Annually
   - [ ] Other (please specify): _____

5. How much foam is used per training event?
   - [ ] Less than 5 gallons
   - [ ] 5 gallons
   - [X] 5 to 10 gallons
   - [ ] More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?
   - [ ] Storm Sewer
   - [ ] Sanitary Sewer
   - [ ] On-Site Septic
   - [X] Ground
   - [ ] Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   End of Cul-de-sac on Industrial Rd just east of Morris Ave.

OVER→

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5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Silv-ex				
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Kelly O'Donovan-Chief
Name and Title

Hinckley Vol. Fire Dept
Fire Department

cell 320-279-1445
Phone Number Date

HVFD@SCICable.Com
E-Mail Address

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly X Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Salvage yard Car fires
   Bulk site Structure fire

OVER→

a member of: Inogen Environmental Alliance
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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A		Y	5gal	25gal	10gal
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Charles Johnson Chief
Name and Title

W. Herbert Fire
Fire Department

218-962-7260 5-27-08
Phone Number Date

cjohnson@wherbertfd.k12.mn.us
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires X 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   X Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   X Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Fire hall - tarred ~~420~~ 480 Main

   U.S. Park Lot - tarred. 900 5th St.

   Softball Field. 201 Main

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Silv-Ex	Y	5-50	Yes.	Yes
Training Foam	Wet Water	N	5		Y
Other					

Grass fires

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Patrick Meier
Name and Title

Holding Fire
Fire Department

320 - 746 - 2244
Phone Number

6-10-08
Date

E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

   X_____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

   _____

   _____

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A					
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Steve Seipp
Name and Title

Hollandale Fire Dept.
Fire Department

Phone Number Date

E-Mail Address

a member of: Inogen Environmental alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _X_ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

   _____

   _____

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Chris Lingen Chief
Name and Title

Holland Fire Dept
Fire Department

507-347-3370 5/5/08
Phone Number Date

E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _X_ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _X_ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _X_ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   101 17th Ave SO

OVER→

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	FirePower	No	10gal	yes	
Training Foam	3M chemguard class A,B.	yes	"		
Other	HCT-F500 class AB. National Foam Hazmat for Acid spills, and alkalines.			yes	

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

DALE Specken Fire chief
Name and Title

Hopkins Fire Dept
Fire Department

952. 548- 6451 5-27-08
Phone Number Date

D.Specken@hopkinsmn.com
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   ___ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by: [signature] Chief

Name and Title

Howland

Fire Department

Phone Number

Date 5/2/08

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _X_ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _X_ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Triple Ballfields or by Hoyt Lakes F.D.

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	Lurcon Pyrosol	NO Less than 5gals Year		
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam	Jet-X	Yes	5gals	
Class A	Ansulite / Silv-ex	Yes	20gals	
Training Foam				
Other	Dawn Soap	Yes		

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Steve Stoks Fire Chief
Name and Title

Hoyt Lakes Fire Dept.
Fire Department

218-225-2000 4-28-08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually X Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons X 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   5323 140 ST N HUGO MN 55038

   7630 FABLE Rd CT. N. ~~AVE~~ HUGO MN 55038

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF	ANGUS	X	10 GAL	Yes	Yes
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	ANGUS	X	1-2 GAL	YES	Yes
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

RON GRAY — FIRE FIGHTER
Name and Title

HUGO FIRE DEPT
Fire Department

651 429 6366 — 5-29-08
Phone Number — Date

hugfd@COMCAST.NET
E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _X_ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _X_ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _X_ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   205 3rd Ave SE Hutchinson, 1300 Adams st SE Hutchinson Fire Training facility

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	3M Light Water AFFF/ATC	Yes	less 10 gal	Historic
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silvex Class A	Y	10 gal	Current
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

James Popp Battalion Chief / Equipment
Name and Title

Hutchinson Fire Dept.
Fire Department

320 ~~55~~ 234-5053 4/28/08
Phone Number Date

JPopp@ci.hutchinson.MN.us
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires X 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   X Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   X Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   The township transfer station – car fires, & car extrication – no address available -

OVER→

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5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Angus	yes	20 gal	Same	Same
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Ryan Schultz - Asst. Chief
Name and Title

Ideal Fire Dept.
Fire Department

218-543-4392 6-4-08
Phone Number Date

idealfd@uslink.net
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   Yes X

   No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually X Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   7519 Albert Rd Fire hall parking lot (Blacktop)

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	DNR Supply	yes	10 gals	
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Kristel Kubis Treasurer
Name and Title

Badoura Vol. Fire Dept
Fire Department

218 729-5268 4/28/08
Phone Number Date

E-Mail Address

Sagiaw 55779

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a ~~compressed air foam system (CAFS)~~ Pump with a built-in tank on its engine(s)?

   X Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): Never

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): None

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): NO PLACE !

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Do not use for Training !

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5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Bos-Chek	NO	10 gallon	
Training Foam	WD-881	ASEARIS		
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Paul E Olazon
Name and Title

Isle Fire and Rescue
Fire Department

1-320-676-3117 May 4, 2008
Phone Number Date

None
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

   X No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Bruce Cox Fire Chief
Name and Title

Itasca Volunteer Fire Dept
Fire Department

218 657-2692 — 4/29/08
Phone Number — Date

bcitascaC@gvtel.com
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?
   - ✓ Yes - **Proceed to Question 2**
   - _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?
   - _____ 0-25% of fires
   - _____ 25-50% of fires
   - ✓ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?
   - ✓ Yes
   - _____ No

4. How often is foam used in training exercises?
   - _____ Weekly
   - _____ Monthly
   - _____ Quarterly
   - ✓ Semi-Annually
   - _____ Annually
   - _____ Bi-Annually
   - _____ Other (please specify): _____

5. How much foam is used per training event?
   - ✓ Less than 5 gallons
   - _____ 5 gallons
   - _____ 5 to 10 gallons
   - _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?
   - ✓ Storm Sewer
   - _____ Sanitary Sewer
   - _____ On-Site Septic
   - _____ Ground
   - _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   305 Sheridan

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silver	yes	10 gals	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Larry Olsen
Name and Title

Jackson Fire Dept. Jackson MN 56143
Fire Department

507-847-3121 4-28-08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Wall St West Vaccant Lot.

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silv-ex	NO	2gal	Current use
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jeff Kuslee Chief
Name and Title

Jasper
Fire Department

Home 507 348-7925
Phone Number

28 APR 2008
Date

JASPER EFB @ iw.net
E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	Ansulite	NO	< 5 gals	Current
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam	SILV-EX	NO	< 5 gals	Current
Other	3M	NO	< 5 gals	Current

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Curtis Johnson / Secretary
Name and Title

Jeffers Fire Dept.
Fire Department

507-327-1711 4-29-08
Phone Number Date

johncurt@centurytel.net
E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Intersection of Duroe St and Beaver St.

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

   _X_ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

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5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

LARRY DILLARRINGTON Chief
Name and Title

KABETOGAMA
Fire Department

218-875-2603 4/29/08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires X 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons X 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   E408 670 St. Kasson Mn

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silvex	yes	5	yes 45 gal/yearly
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

James McAndrews - Training Officer
Name and Title

Kasson Fire Dept
Fire Department

507-273-0403
Phone Number

5/5/08
Date

McAndrewshouse@yahoo.com
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - ~~Proceed to~~ **Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

   _____

   _____

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A					
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

[illegible] Lynch chief KVFD

Name and Title

Kelso Volunteer Fire Dept

Fire Department

(218) 427-2422 5/28/08

Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _X_ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _X_ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Pacific Ave + 9th St. S. - Kerkhoven

   KMS High School - 15th St N. - Kerkhoven (Parking Lot)

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5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Angus	Yes	25 gals.	Both
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Kelly Hauge Chief
Name and Title

Kerkhoven
Fire Department

320-264-5547 4/30/08
Phone Number Date

kellyhauge@tds.net
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _X_ Other (please specify): CAN'T Afford TO USE IN ON TRAining

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _X_ Other (please describe): don't USE it IN TRaining

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   don't use foam IN Trainings

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	ChemGuard INC. Class A Plus	No	5 Gallons	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Bob Hostenberger Fire Chief
Name and Title

Kettle River VOL.
Fire Department

218 273-4662 5/6/08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   X Other (please specify): ~~Used at~~ we train at voc. tech for Foam

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Training in foam is done at South Central college in North Mankato, 1920 Lee Blvd, North Mankato 56003

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)	Sil-vex	No	5 gals	5 gals/yr.
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Sil-vex	No	15 gals	15 gals/yr.
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Brandon Hagenson Fire Chief
Name and Title

Kiester Fire Dept.
Fire Department

507-383-7458 4-29-08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _X_ Other (please specify): WE don't use for training

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _X_ Other (please describe): Do Not use for training

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   512 Spruce Ave. Kinney

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	SILV-EX	NO	~~0~~	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

MARK TOWNER — Asst. Chief
Name and Title

KINNEY - GREAT SCOTT
Fire Department

N/A — 4-30-08
Phone Number — Date

K65 FIRE @ MCHSI.COM
E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _X_ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _X_ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _X_ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _X_ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _X_ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   La Crescent High School Parking lot + Soccer Fields
   14th ST S. + Lower Blvd La Crescent

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Angus Hi. Combat A	Yes	25 Gal	Firefighter Training
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Greg Hovland - Training Officer
Name and Title

La Crescent Fire
Fire Department

507 895 2063 4/28/08
Phone Number Date

GREG.HOVLAND@LACRESCENTFIRE.NET
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires X 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually X Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Various locations

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	3M	Yes	45 gals	Training
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein	Ansul	NO	0	0
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Angus	Yes	30 gals	Calls
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Greg Malmquist — Fire Chief
Name and Title

Lake Elmo
Fire Department

651-770-5006 — 4/29/8
Phone Number — Date

gmalmquist@lakeelmo.org
E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?
   - [X] Yes - **Proceed to Question 2**
   - [ ] No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?
   - [X] 0-25% of fires
   - [ ] 25-50% of fires
   - [ ] 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?
   - [ ] Yes
   - [X] No

4. How often is foam used in training exercises?
   - [ ] Weekly
   - [ ] Monthly
   - [ ] Quarterly
   - [ ] Semi-Annually
   - [ ] Annually
   - [ ] Bi-Annually
   - [X] Other (please specify): Very rare - we dont use foam for training due to the cost of it.

5. How much foam is used per training event?
   - [X] Less than 5 gallons
   - [ ] 5 gallons
   - [ ] 5 to 10 gallons
   - [ ] More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?
   - [ ] Storm Sewer
   - [ ] Sanitary Sewer
   - [ ] On-Site Septic
   - [ ] Ground
   - [ ] Other (please describe): N/A

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   N/A

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	Ansulite ARC	NO	>5 Gal	Current
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silo-Ex	NO	10 Gal	Current
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Loren Gilmore – Fire Chief
Name and Title

Lakefield Fire Dept.
Fire Department

507-662-5750 — 4-29-08
Phone Number — Date

E-Mail Address

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _X_ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _X_ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

   _____

   _____

OVER→

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam	Silvex	NO	50gal	none	unknown
Class A					
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Kurt Rogers Fire Chief
Name and Title

Lakewood Fire Dept.
Fire Department

218-525-5801
Phone Number Date

lakewood chief@hotmail.com
E-Mail Address

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5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _X_ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   County 8 Lonsdale Rall Park Parking Lot

OVER→

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)	AQUA ECO	NO	—	NONE	—
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	AQUA ECO	NO	—	NONE	—
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Andrew C Drake Chief
Name and Title

Lanesboro
Fire Department

507 467-2225 5-29-08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

   _X_ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

_____

_____

_____

_____

_____

_____

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A					
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Harley Bransted Fire chief
Name and Title

LaSalle Fire Department
Fire Department

507 375 3621 June 3rd
Phone Number Date

bran3621@ccc internet. net
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires ✓ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   ✓ Yes

   _____ No

4. How often is foam used in training exercises?

   ✓ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   ✓ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   ✓ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ✓ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   IF FOAM WAS USED AT A TRAINING EXCERCISE IT WAS VERY LITTLE, ONLY TO SHOW NEW MEMBERS HOW TO APPLY IT ON SOMETHING. LESS THAN A HALF GALLON WAS USED BECAUSE OF COST. THE TRAINING WAS HELD AT FIREHALL. ONLY IN THE PAST 5 YEARS HAVE WE STARTED USEING FOAM ON A REGULAR BASIS. WE HAVE AN ENGINE WITH A BUILT IN FOAM SYSTEM THAT CAN BE USED MORE EFFICIENTLY.

OVER→

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	SILV-EX	NO	30 GAL.	5 GAL.	
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Tim Schloesser Fire Chief
Name and Title

LeCenter
Fire Department

507-357-4844 5-27-08
Phone Number Date

TPSIUSH@frontiernet.net
E-Mail Address

a member of: Inogen Environmental Alliance

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires ✓ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   ✓ Yes

   _____ No

4. How often is foam used in training exercises?

   ✓ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

   _____

   _____

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam	Silv-ex	NO	30 GALLONS	YES	YES
Class A					
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

TOM OBELE FIRE CHIEF
Name and Title

LE SUEUR FIRE DEPARTMENT
Fire Department

507-665-6401 6/5/08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   X Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   X Other (please specify): once or twice year

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   out in a field where we had a round bale of hay

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	X	yes	1-2 gal	Structure fire can fires
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Don Kalpin (Chief)
Name and Title

Leaf Valley Fire Department
Fire Department

320 760 6862 — 5-5-08
Phone Number — Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually X Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

   _____

   _____

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)		No			
Class B Alcohol-Resistant (AR)-AFFF		No			
Class B Protein		No			
Class B Fluoroprotein (FP)		No			
Class B Film-Forming Fluoroprotein (FFFP)		No			
Class B AR-FFFP		No			
Class A-B Hi Expansion Foam		No			
Class A		Yes	5-10 Gal		
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Charlie Matzke Chief
Name and Title

Lewiston
Fire Department

507-523-2350 5-29-08
Phone Number Date

CSmatzke@Gmail.com
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ✓ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually ✓ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   ✓ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ✓ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   S Hwy Drive & Griggs Ave

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Ansul	yes	Less than 50 gal	
Training Foam				2 Times per 5 yrs
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Paul Pedrau Chief
Name and Title

Lexington Fire
Fire Department

763-784-2792 — 5/8/08
Phone Number — Date

E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires X 25-50% of fires _____ 75-100% of fires

   Less all wildland, no structure primarily class A foam

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons X 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Behind Station
   22870 Typo Creek Dr.
   Stacy, MN 55079

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	3M Light Water ATC	Yes	5-10gal	Historic
Class B Alcohol-Resistant (AR)-AFFF	3M Light Water ATC	Yes	5-10gals	Current
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silv-ex "Class A"	No	20-25	Current/Historic
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jim Stockinger Fire Captain
Name and Title

Linwood Fire Dept.
Fire Department

612-868-1924 5/7/08
Phone Number Date

E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   X Other (please specify): 1 or 2 times a year

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   In County at a gross old barn fire
   Bucket and 170th ST

OVER→

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A					
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

James J Weidert

Name and Title

Lismore Fire & Rescue

Fire Department

507-920-7208 June 3

Phone Number Date

jkweidert@myclearwave.net

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations? only
   - X Yes - **Proceed to Question 2**
   - _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?
   - _____ 0-25% of fires
   - _____ 25-50% of fires
   - X 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?
   - _____ Yes
   - X No

4. How often is foam used in training exercises?
   - _____ Weekly
   - _____ Monthly
   - _____ Quarterly
   - _____ Semi-Annually
   - X Annually
   - _____ Bi-Annually
   - _____ Other (please specify): _____

5. How much foam is used per training event?
   - X Less than 5 gallons
   - _____ 5 gallons
   - _____ 5 to 10 gallons
   - _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?
   - _____ Storm Sewer
   - _____ Sanitary Sewer
   - _____ On-Site Septic
   - X Ground
   - _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.
   Parking lot behind fire station 325 Little Canada Rd.

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	Ansul	No		
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Ansul	yes	5 gallons	historic mostly
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Don Smiley Assistant Fire Chief
Name and Title

Little Canada
Fire Department

651-481-7883
Phone Number

Date 5/6/08

dpsmiley@comcast.net
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _X_ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   314 1ST ST. N.E. LITTLE FALLS

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	MN-MINING CO	NO	5 GALS	NO	YES
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam	F-500	NO	20 GALS	YES	YES
Class A	SILV-EX	YES	5 GALS	YES	YES
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

MICHAEL NIEMAN FIRE CHIEF
Name and Title

LITTLE FALLS FIRE DEPT.
Fire Department

320-616-5591
Phone Number Date

MBNIFFD@CHARTERINTERNET.COM.
E-Mail Address

Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ✓ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually ✓ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   ✓ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   ✓ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   At the firehall, the corner of McPherson and 3rd Ave

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Michael LaClair Secretary
Name and Title

Little Fork Fire Department
Fire Department

(218) 278-6666 5-1-08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

   _✓_ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

WE DON'T USE FOAM - WATER ONLY

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Catherine M. Crawford
Name and Title

LOMAN RURAL FIRE ASSOCIATION
Fire Department

(218) 278-6714 — 5/3/2008
Phone Number — Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   X Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   615 Lake St. S. Fire Hall Parking lot

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silv-ex	Yes	less than 5 gallon	Current
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jim Kreemer Fire Chief
Name and Title

Long Prairie Volunteer Fire Dept.
Fire Department

320-732-3883 4-30-08
Phone Number Date

lpfire at Embark mail. com.
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ✓ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   ✓ Other (please specify): every couple years

5. How much foam is used per training event?

   ✓ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ✓ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   1350 W Co Rd 5
   Lowgville, MN

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	3M	NO	0	Current
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silvex	Yes	25	Current
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Alan Weaver Fire Chief
Name and Title

Longville Area Vol
Fire Department

218-363-2055 5-7-08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _X_ Other (please specify): never or very seldom

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Unknown, in my 14 years on department, I do not recall using foam for training. We use foam only when absolutely necessary because of cost.

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam	Angus	Seldom, if ever	≈ 10gal	
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Mike Yetzer, Fire Chief
Name and Title

Lonsdale Fire Dept.
Fire Department

612-756-0281 — 4/27/08
Phone Number — Date

IndFire@means.net
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _X_ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _X_ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   259 Medina Street North - Loretto, MN 55357

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	3m	yes	5gal	
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jeff Leuer — Asst Chief
Name and Title

Loretto Fire Dept
Fire Department

763-479-3036 — 5/1/08
Phone Number — Date

loretto public works@hotmail.com
E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

    No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

a member of Inogen Environmental Alliance

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Tom LeTrud chief
Name and Title

Louisburg
Fire Department

Phone Number

4/29/08
Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

_____

_____

_____

_____

_____

_____

OVER→

a member of: Inogen Environmental Alliance

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A					
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Loren Jansen — Fire Chief
Name and Title

Lowry
Fire Department

320-283-5165 — 5-30-08
Phone Number — Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _X_ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _X_ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _X_ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   IN THE FIELD IN BACK OF FIRE HALL

OVER→

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	SILV-EX	YES	5GAL	YES	YES
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

LUTSEN FIRE CHIEF
Name and Title

LUTSEN TOWNSHIP FIRE DEPT.
Fire Department

1-218-663-7501 6-4-08
Phone Number Date

[redacted] LUTCLERK@BOREAL.ORG
E-Mail Address

a member of: Inogen Environmental Alliance

Fred Schmidt

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires X 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   X Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Grove St & 2nd Ave Lyle MN

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)		No		
Class B Alcohol-Resistant (AR)-AFFF		No		
Class B Protein		No		
Class B Fluoroprotein (FP)		No		
Class B Film-Forming Fluoroprotein (FFFP)		No		
Class B AR-FFFP		No		
Class A-B Hi Expansion Foam		No		
Class A	Silv-ex	Yes	5 gal.	Current
Training Foam		No		
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Todd Cooling Chief
Name and Title

Lyle Fire Dept
Fire Department

507-325-2221 4-30-08
Phone Number Date

toddCooling@frontiernet.net
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires X 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   VARIOUS LOCATIONS

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	3M	Yes	10 gal	5 gal
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein	Unknown	yes	5	historic
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Stevens	Yes	30 gal	current
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

VINCENT FORSTNER
Name and Title

MADELIA FIRE DEPT
Fire Department

507 642 ~~3404~~
Phone Number

5/5/08
Date

ffai@bevcomm.net
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

   _____

   _____

OVER→

a member of: Inogen Environmental Alliance

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A					
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Wayne Ahmann Chief
Name and Title

Mahnomen Fire Dept
Fire Department

218-935-5381 6-10-08
Phone Number Date

NA
E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires X 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   X Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly X Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Live fire training burns.

a member of: Inogen Environmental Alliance

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	Angus			15 gals year
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Angus	yes	100 gals	avg past 15 years
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Todd Rogers
Name and Title

Mahtomedi FD
Fire Department

651 775 6522 — 4/29/08
Phone Number — Date

mahtomedifire@comcast.net
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _X_ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _X_ Other (please specify): Not used in training

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _X_ Other (please describe): If used on fire it would be on the Ground

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   We have not used Class A foam yet for training. But we plan to at some point

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	x Silv-ex	no	Less then 5 Gallons	Current use
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Joe Schleret Chief
Name and Title

Mahtowa Fire Department
Fire Department

218-389-6262 5-7-08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ___X___ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ___X___ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ___X___ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually ___X___ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   ___X___ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ___X___ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Fire Hall Lawn 6661 Wilson Rd

OVER→

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Silvex	Yes	2Gal	Yes	Yes
Training Foam	Silvex	Yes	2Gal	yes	yes
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Mike Skule Chief
Name and Title

Makinen Fire Dept
Fire Department

218-780-9353 6/4/08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons X 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   X Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Fire Station #1 - 300 Madison Ave, MN

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	3M	Yes	5-10 gal.	Hist.
Class B Alcohol-Resistant (AR)-AFFF	Angus Alcoseal	Yes	5-10 gal	Current
Class B Protein	?			Hist - decades ago
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam	Silv-ex	y	5 gal	current
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Al Ratzloff — Deputy Director - Fire
Name and Title

Mankato
Fire Department

507-387-8703 — 4/29/08
Phone Number — Date

aratzloff@city.mankato.mn.us
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   ____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ✓ 0-25% of fires ____ 25-50% of fires ____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   ____ Yes

   ✓ No

4. How often is foam used in training exercises?

   ____ Weekly ____ Monthly ____ Quarterly

   ____ Semi-Annually ✓ Annually ____ Bi-Annually

   ____ Other (please specify): _____

5. How much foam is used per training event?

   ____ Less than 5 gallons ____ 5 gallons ____ 5 to 10 gallons

   ✓ More than 10 gallons (please specify): 100 gallons

6. In training, where does the spent foam go?

   ____ Storm Sewer ____ Sanitary Sewer ____ On-Site Septic ✓ Ground

   ____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   (1) Maple Grove Station 5 - 6900 Garnsey Le Ln
   Maple Grove MN 55369

   (2) Maple Grove Station 2 - 13450 Maple Knoll Way
   Maple Grove MN

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	TRIDEX	NO	< 5 gallons	
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	FOREXPAN S 3%	NO	100 gal+	
Training Foam	ANGUS/NATIONAL	YES	100 gal+	
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

KURT KRAMMER / DEPUTY FIRE CHIEF
Name and Title

MAPLE GROVE FIRE DEPARTMENT
Fire Department

763-494-6304 4/28/08
Phone Number Date

KKRAMMER@CI.MAPLE-GROVE.MN.US
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   ONCE X Never _____ Weekly _____ Monthly _____ Quarterly

   ON TRAINING _____ Semi-Annually _____ Annually _____ Bi-Annually

   5 YRS. AGO _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   GUNFLINT TRAIL FIRE HALL - GUNFLINT TRAIL & WAHLSTROM RD @ 5 MI. NORTH OF GRAND MARAIS MN.

OVER→

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	SILV-EX 75451	YES	0	0	5 GAL
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

ED HEGSTROM FIRE CHIEF
Name and Title

MAPLE HILL VOL F.D.
Fire Department

218-387-1530 (HOME NO.) MAY 30, 08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ✓ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   ✓ Yes

   _____ No

4. How often is foam used in training exercises?

   ✓ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event? N/A

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go? N/A

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

   _____

   _____

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	SILV-EX	NO	1-2 GALLONS		
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jim TARO SEC
Name and Title

MARBLE FIRE DEPT
Fire Department

218-247-7885
Phone Number

6/4/08
Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons X 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   X Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   201 JUDD STREET MARINE ON ST. CROIX

OVER→

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	3M	NO	LESS THAN 10 GAL.		
Class B Alcohol-Resistant (AR)-AFFF	N/A				
Class B Protein	N/A				
Class B Fluoroprotein (FP)	N/A				
Class B Film-Forming Fluoroprotein (FFFP)	N/A				
Class B AR-FFFP	N/A				
Class A-B Hi Expansion Foam	N/A				
Class A	? VARIES	NO	10-20 GAL.	YES	YES
Training Foam	ANGUS ?	YES	5-10 GALLONS	YES	YES
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

DAVID DENN, CHIEF
Name and Title

MARINE ON ST. CROIX
Fire Department

651-433-2801 — 5/28/08
Phone Number — Date

DDENN@NSBSA.ORG
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF	3m			0	
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Silvex	No			
Training Foam	Trainol	Yes	15gals	1	
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Marc A. Klatt Chief
Name and Title

Marshall Fire Department
Fire Department

507-532-5141 6-3-08
Phone Number Date

Marshall Fire @ Iw.Net
E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires ✓ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   ✓ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly ✓ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   ✓ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ✓ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   The Marshall Merrit Center Cty Rd 33

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): OR LESS

5. How much foam is used per training event?

   _1_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   HOUSE BURNS

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	3M	YES	LESS THAN 5 GAL	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

ROD MAETZOLD
Name and Title

MAYER
Fire Department

952-657-2291 4/28/08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually X Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   X Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Mable St and Sherman

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silv-ex	Y		Current
Training Foam				
Other	Chem Guard	Y		Historic

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Steven Lindquist Chief
Name and Title

Maynard Mn
Fire Department

320-367-2140 4-28-08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   __X__ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   __X__ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   __X__ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually __X__ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   __X__ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic __X__ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   LAST TRAINING WAS DONE IN A JUNK YARD

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other	Foam Stick Pyro Com TS TURBO	yes		Current
	Foam Stick Pyro Com TS ECO	yes		Current

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

STEVE LIFFRIG FIRE CHEIF
Name and Title

MAZEPPA FIRE DEPT
Fire Department

507-843-3095 5-5-08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

_____
Name and Title

_____
Fire Department

_____
Phone Number Date

_____
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ___ Yes - **Proceed to Question 2**

   X No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

Mckinley Vol Fire Dept

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ___V___ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires ___V___ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   ___V___ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly ___V___ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   ___V___ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ___V___ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Fire Hall site 9955 Hwy 133

   Hwy #33 & Hwy 7 intersection

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silv-ex	yes	20gal.	historic
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jim Flansburg Chief
Name and Title

Meadowlands Fire dept.
Fire Department

218-427-2333 5/1/08
Phone Number Date

tim_flansburg2000@Yahoo.Com
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   X Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually 1/4 qtr Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   None Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   N/A Storm Sewer N/A Sanitary Sewer N/A On-Site Septic N/A Ground

   N/A Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   No Training Usage Thus Far

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

	Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
	Class B Aqueous Film-Forming Foam (AFFF)				
	Class B Alcohol-Resistant (AR)-AFFF				
	Class B Protein				
	Class B Fluoroprotein (FP)				
	Class B Film-Forming Fluoroprotein (FFFP)				
	Class B AR-FFFP				
	Class A-B Hi Expansion Foam				
✓	Class A	Silvex	No	Less than 1 Gal	Less than 1 gal last 5 years
	Training Foam				
	Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

JACK GARBERG FIRE CHIEF
Name and Title

MEDICINE LAKE FIRE
Fire Department

767-542-9701 5/5/08
Phone Number Date

E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?
   - X Yes - **Proceed to Question 2**
   - _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?
   - X 0-25% of fires
   - _____ 25-50% of fires
   - _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?
   - X Yes
   - _____ No

4. How often is foam used in training exercises?
   - X Never
   - _____ Weekly
   - _____ Monthly
   - _____ Quarterly
   - _____ Semi-Annually
   - _____ Annually
   - _____ Bi-Annually
   - _____ Other (please specify): _____

5. How much foam is used per training event?
   - _____ Less than 5 gallons
   - _____ 5 gallons
   - _____ 5 to 10 gallons
   - _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?
   - _____ Storm Sewer
   - _____ Sanitary Sewer
   - _____ On-Site Septic
   - _____ Ground
   - _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

FD does not use foam for training due to cost

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5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	NA				
Class B Alcohol-Resistant (AR)-AFFF	NA				
Class B Protein	NA				
Class B Fluoroprotein (FP)	NA				
Class B Film-Forming Fluoroprotein (FFFP)	NA				
Class B AR-FFFP	NA				
Class A-B Hi Expansion Foam	NA				
Class A	ANSUL	NO	20-50 Gallons	X	Y
Training Foam	NA				
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

JEREMY KRAEMER FIRE CHIEF
Name and Title

MELROSE FIRE DEPT
Fire Department

320-761-1187 5-27-08
Phone Number Date

CHIEF@MELROSEFIRE.ORG
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ___X___ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires ___X___ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ___X___ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually ___X___ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   ___X___ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ___X___ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

_____

_____

_____

_____

_____

_____

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A					
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Dave Kieker
Name and Title

Mendota Fire Department
Fire Department

218-564-4557 6-3-08
Phone Number Date

E-Mail Address

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ___Y___ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires ___Y___ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ___X___ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually ___Y___ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   ___X___ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   ___X___ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ___Y___ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   2nd Street & Highway. Middle River MN.

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	US Foam	Yes	2-5gal	Yes	Yes
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Brian Peterson Chief
Name and Title

Middle River Fire Dept.
Fire Department

218-222-3706 5-27-08
Phone Number Date

Mrfire@wiktel.com
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Richard R. Wagner — Chief

Name and Title

Millerville

Fire Department

320-815-1048 — 4-29-08

Phone Number — Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _X_ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

_____

_____

_____

_____

_____

_____

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a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A		X	1 gals		
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Paul Belseth Chief
Name and Title

Milan
Fire Department

320-734-4411 June 1 08
Phone Number Date

City of Milan @ Fedtel direct. net
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ✓ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually ✓ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   ✓ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ✓ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   *25 37 AVE NE

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a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	3-M	Yes	5	No	Yes
Class B Alcohol-Resistant (AR)-AFFF	Ansul	No		Yes	
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Ansul	Yes	5	Yes	
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Walt Lee
Captain
Engineering Officer

City of Minneapolis
Fire

350 South 5th Street - Room 230
Minneapolis, MN 55415
www.ci.minneapolis.mn.us

office [612] 673-2059
cell [612] 718-1859
fax [612] 673-2828
pager [612] 650-4273
walter.lee@ci.minneapolis.mn.us

Date

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _X_ Yes

   _____ No

4. How often is foam used in training exercises?

   _X_ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

   _____

   _____

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a member of
Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	Chubb National Foam	NO	0	No	Very Limited
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Silv-ex	NO	5 gal	yes	yes
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jeff Sussner — Fire Chief
Name and Title

Minnesota Fire Department
Fire Department

(507) 530-3499 — 6-5-08
Phone Number — Date

jeffsussner@centurytel.net
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

   X No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

   _____

   _____

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A					
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jim Neyers Chief
Name and Title

Minnesota City Fire Dept.
Fire Department

689-2997 5/28/08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

   _X_ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

James Flanders, Assistant Chief
Name and Title

Minnetonka Fire
Fire Department

952-939-8334 28 April 2008
Phone Number Date

jflanders@eminnetonka.com
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

   _X_ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Leon Yeager - Chief
Name and Title

Mission Township Fire & Rescue
Fire Department

218-765-3526 4-29-08
Phone Number Date

E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ✓ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually ✓ Bi-Annually

   ✓ Other (please specify): when we have an old lot of foam.

5. How much foam is used per training event?

   _____ Less than 5 gallons ✓ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ✓ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Fire Station at 103 Canton Avenue, Montevideo, MN

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	3m Lightwater ATC 3%6% 3M 3%/6%	yes yes	1gal 1gal	yes yes	yes yes
Class B Alcohol-Resistant (AR)-AFFF	ANSULITE 3x3	no	0	yes	no
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Silv-ex	yes	1gal	yes	yes
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Robb Gilkey
Name and Title

Fire Chief
Fire Department

Montevideo Fire Dept — 6/4/08
Phone Number — Date

Firedept@montevideomn.org
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _X_ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _X_ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   When we train with foam we use it in front of our fire hall on the apron we use less than a gallon for training usually through a foam backpack

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Silvex	very little	15gal	X	
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Lloyd Wiechmann
Name and Title

Chief
Fire Department

Montgomery Fire Dept
Phone Number

Date

612-756-1837

5-27-08
E-Mail Address

a member of: Inogen Environmental Alliance

MontyFire@frontiernet.net

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _X_ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   260 2nd st south montrose

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	Angus	NO		
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Angus	yes	less than 5Gallons	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Mike Marketon Fire Chief
Name and Title

Montrose Fire Dept
Fire Department

763-675-3717 5-6-08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ✓ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Moorhead Youth Hockey Arena
   707 SE Main Ave
   Moorhead MN 56560
   (in the ditch, west of the arena)

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	3M AFF	No	Ø-5 gal	Historic
Class B Alcohol-Resistant (AR)-AFFF	National Foam	No	Ø-5 gal	Current
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silv-ex	Yes	20 g	Current
Training Foam	Unknown	Yes	Ø	Mix = unknown
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jeff Wallin, Assistant Chief
Name and Title

Moorhead Fire Department
Fire Department

218-299-5440
Phone Number Date

JOEL.HEWITT@CI.MOORHEAD.MN.US
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires X 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   X Other (please specify): we dont train with foam due to cost, but do use it maybe once a yr to make sure fireman know how to use it.

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   X Other (please describe): Parking lot than washed to ground off parking lot

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Moose Lake Fire Hall — North side of Hall
   600 Hwy 73 — in front of bay doors
   Moose Lake, MN
   55767

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silv-ex	X	Less than 20-25 gal	@ 20gal/yr for structure fires
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Steve TRENHAILE CHIEF
Name and Title

MOOSE LAKE AREA FIRE PROTECTION DISTRICT
Fire Department

218-485-4242 4/30/08
Phone Number Date

MOOSELAKEfiredept@hotmail.com
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Trap Range / City dump. - A driveway of the end of 10th Street. morgan mn. 56266.

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silv-ex	Yes	3	Current
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Craig Hviras Fire Chief
Name and Title

Morgan Fire Dept.
Fire Department

507-249-2457 4-28-08
Phone Number Date

mgnfire@redred.com.
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ___X___ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ___X___ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   ___X___ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually ___X___ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   ___X___ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ___X___ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Base Ball field 3rd St South West
   Morristown Mn

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)		Yes	[illegible]	Yes	Yes
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	FDRexpan 3	Yes	10 gal	Yes	Yes
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Troy Dahle
Name and Title

Morristown mn
Fire Department

507-838-7241 6-1-08
Phone Number Date

Dahle @ Bevcomm.Net
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   __X__ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   __X__ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   __X__ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually __X__ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   __X__ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic __X__ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   VACANT LOT CITY OF MOTLEY MAINTAINCE garage, address: 196 E/ EDREGE ST W.

OVER→

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	SILVEX	Yes	LESS THAN 1 GALLON		
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

TROY DAVIS FIRE CHIEF
Name and Title

MOTLEY FIRE DEPT
Fire Department

218-352-6172 EXT 252 — 5-21-08
Phone Number — Date

E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ✓ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually ✓ Annually _____ Bi-Annually

   ✓ Other (please specify): USUALLY ONCE OR TWICE PER YEAR DURING LIVE BURN TRAINING EXCERCISES

5. How much foam is used per training event?

   ✓ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ✓ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   VARIOUS LOCATIONS AT LIVE BURN TRAINING - DEPENDS ON LOCATION OF STRUCTURE.

OVER→

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF	ANSUL - ANSULITE ARC ALCOHOL RESISTANT	NO	5-10 GALLONS		
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	ANSUL SILV-EX	YES	LESS THAN 25 GALLONS	10	
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

GREGORY S. PEDERSON FIRE CHIEF
Name and Title

MOUND FIRE DEPARTMENT
Fire Department

952-472-3555 May 30, 2008
Phone Number Date

Chief1@moundfire.com
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   X Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   X Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   EMPTY LOT ACROSS FROM 8866 SLATE ST.
   MOUNTAIN IRON MN
   55768

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	CHEMGUARD/ NATIONAL FOAM & ANSULITE	NO	0	0
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	SILV-EX	YES	10-20 GAL	YES WHEN APPLICABLE
Training Foam			TOTAL TRAINING & FIRES	
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

STEVEN N. NORVITCH ASST. FIRE CHIEF
Name and Title

MOUNTAIN IRON FIRE DEPT
Fire Department

218 750-7216
Phone Number Date

FIREDEPT@MTNIRON.COM
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ✓ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually ✓ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   ✓ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ✓ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Myrtle ball field

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Name and Title

Myrtle Fire Dept

Fire Department

Phone Number

Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   X Other (please specify): never

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silvex	no	30 gal	current
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

John G. Calaguire Fire Chief
Name and Title

Nashwauk
Fire Department

218-885-1042 4-26-08
Phone Number Date

E-Mail Address

member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Street in Front of Fire hall 207 4th Street Nassau

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silvex	Yes	1 gal	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Bradley Streich Fire Chief
Name and Title

Nassau Fire Department
Fire Department

320-668-2325 W 320-668-2635 H
Phone Number

4-30-08
Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _X_ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _X_ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Larry Flom farm on Hwy. 56 north Kenyon. 39625 Hwy. 56 Dennison 55018. Burned down old farm house. Last used 4 years ago.

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Angus	No	ø	Yes	ø
Training Foam					
Other	Light Water ATC 3M	YES	ø		YES

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Bret Showers
Name and Title

Nerstrand Vol. Fire Dept.
Fire Department

(507) 332-8000 — 6/3/08
Phone Number — Date

E-Mail Address

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _X_ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _X_ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _X_ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Our Last Training Burn was March 29 2008
   104 Miller St Ness, MN 56467

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silvex	yes	15 gal	10 gal
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Kerry Swenson — Fire Chief
Name and Title

Nevis Fire Department
Fire Department

218-652-2323 — 4/28/08
Phone Number — Date

NevisFire@arvig.Net
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires __X__ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   __X__ No

4. How often is foam used in training exercises?

   __X__ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   We do not utilize foam for any live fire training, as it is too hard to get additional fires going when foam is used

OVER→

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	3M	No	Ø	Ø	Ø
Class B Alcohol-Resistant (AR)-AFFF	Ansulite	No	Ø	Ø	Ø
Class B Protein	N/A	No	Ø	Ø	Ø
Class B Fluoroprotein (FP)	NA	No	Ø	Ø	Ø
Class B Film-Forming Fluoroprotein (FFFP)	NA	No	Ø	Ø	Ø
Class B AR-FFFP	NA	No	Ø	Ø	Ø
Class A-B Hi Expansion Foam	NA	No	Ø	Ø	Ø
Class A	Ansul	No	50gal	Ø Ansul	Ø 50gal
Training Foam	NA	No	Ø	Ø	Ø
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Trevor Hamdorf - Captain
Name and Title

New Brighton DPS
Fire Department

651-288-4100 — 05 31 08
Phone Number — Date

trevor.hamdorf@newbrightonmn.gov
E-Mail Address

a member of: Inogen Environmental Alliance

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

   _X_ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Mike Sand Fire chief
Name and Title

New Munich
Fire Department

320 761 2987 4-30-08
Phone Number Date

E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires ✓ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   ✓ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons ✓ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   ✓ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   In New Prague - ① 11th Ave NW / 2nd Street NW
   ② Columbus Ave N / 12th Street NE

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Argus Hi Combat	yes	100 gal.	Current + Past
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Tom Becker Fire Chief
Name and Title

New Prague Fire
Fire Department

cell 952-250-2424 5/1/08
Phone Number Date

TBecker311@AOL.com
E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _X_ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _X_ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   At our Fire hall in a open grass lot on its East side
   Loc. 203 Broadway Ave N New Richland MN
   closest cross street 1st st N.E.

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Silv-ex	X	Less than 5 gal	X	X
Training Foam					
Other	Chemguard class				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Brian Svoboda
Name and Title

New Richland Fire, New Richland MN 56072
Fire Department

507-465-3700 — 5-29-08
Phone Number — Date

Svoboda4@Hickorytech.net
E-Mail Address

Both Home # & Email Not Fire hall

Inogen Environmental Alliance
a member of:
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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ✓ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): we don't

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): 0

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	Angolite	No		
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silv-ex	no		
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Paul Macho Chief
Name and Title

New Ulm MN
Fire Department

507 359-8225 5-1-08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ___X___ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires ___X___ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ___X___ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually ___X___ Annually _____ Bi-Annually

   ___X___ Other (please specify): to use up expired stuff - maybe every 3 yrs.

5. How much foam is used per training event?

   ___X___ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   ___X___ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ___X___ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	Silver	Yes	0	Current
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silver	no	30	current
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Reed Jacobson, Chief
Name and Title

New York Mills Fire Department
Fire Department

218-639-2787 5-2-08
Phone Number Date

nymfd@lakesplus.com
E-Mail Address

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _X_ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   [redacted] at Fire Hall

OVER→

a member of: Inogen Environmental Alliance
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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Silvex	NO	5-10 gal		
Training Foam					
Other	Oxford 229 wetting agent		5 gal		

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Keith Rud — Fire Chief
Name and Title

Newfolden Fire Dept
Fire Department

218-874-7135
Phone Number — Date

Krud@wiktel.com — 5/27/08
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ✓ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   ✓ Other (please specify): none

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): N/A

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	3M / ANSULITE	NO	—	—
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	ANGUS	NO	10-20 GAL	—
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

MARK MAILAND / CHIEF
Name and Title

NEWPORT
Fire Department

651-459-9390 — 4/28/08
Phone Number — Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires ✓ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   X Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   N/A _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   N/A _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   At Nissum Fire Dept Parking Lot
   No Foam used at Training.

OVER→

a member of: Inogen Environmental Alliance
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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	Angus	No	~~10 gallons~~	~~O~~	~~O~~
Class B Alcohol-Resistant (AR)-AFFF	Angus	No	~~O~~	~~O~~	~~O~~
Class B Protein	~~O~~				
Class B Fluoroprotein (FP)	~~O~~				
Class B Film-Forming Fluoroprotein (FFFP)	~~O~~				
Class B AR-FFFP	~~O~~				
Class A-B Hi Expansion Foam	~~O~~				
Class A	Angus.	~~No~~ N/A	10 gallons N/A	~~O~~	~~O~~
Training Foam	N/A				
Other	N/A				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Shawn Bailey Traing officer
Name and Title

Nisswa Fire Dept
Fire Department

218-963-2442 6-10-08
Phone Number Date

N/A
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _X_ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _X_ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Parking lot behind our fire station #2 at 1825 Howard Drive, North Mankato Minnesota

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silv-ex #75451	X	15 gal	Both
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Tim Pohlman / Fire Chief
Name and Title

North Mankato, MN
Fire Department

507-625-5378 4-28-08
Phone Number Date

nmfdchief@northmankato.com
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires X 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   X Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons X 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   North St. Paul Public Works
   2303 1st Street N. North St. Paul, MN

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	3M Light Water	Yes	5gal.	both
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	3M Light Water (3FFF)	Yes	15gal	both
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jason Mallinger Deputy Fire Chief
Name and Title

North St. Paul Fire Department
Fire Department

651-747-2552 4-28-08
Phone Number Date

JMallinger@ci.north-saint-paul.MN.US
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires ✓ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually ✓ Annually _____ Bi-Annually

   ✓ Other (please specify): Upon New delivery of Appartaus evey 5years Have not trained on Foam in 10-15 years we may use 5 gallons during the year. Class B.

5. How much foam is used per training event?

   ✓ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   ✓ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   City Street Shop 1710 Riverview Drive.

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	—	NO	-0-	-0-
Class B Alcohol-Resistant (AR)-AFFF	3m ATC 3%-6%	No	-0-	30 gallons Last 20 years
Class B Protein		NO	-0-	-0-
Class B Fluoroprotein (FP)		NO	-0-	-0-
Class B Film-Forming Fluoroprotein (FFFP)		NO	-0-	-0-
Class B AR-FFFP		NO	-0-	-0-
Class A-B Hi Expansion Foam		NO	-0-	-0-
Class A	Chemguard Silver-Ex	NO	80 gallon	1200 gallons Last 10 years
Training Foam	-0-	No	-0-	-0-
Other		NO		

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Mitchell Dewar Captain / Training officer
Name and Title

Northfield Fire Dept
Fire Department

507-271-4566 4-28-08
Phone Number Date

mdewar@ci.Northfield.mn.us
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ✓ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   ✓ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually ✓ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   ✓ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ✓ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Fire Hall 7271 Hwy. 53 Canyon, MN

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Northland F.D.
Name and Title

Cameron
Fire Department

Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually X Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Behind Fire Hall 211 North Bridgeman

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A					
Training Foam					
Other	PYROCOM STICK	yes.	1 stick		2 sticks

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

CORRIE MARTINSON Chief
Name and Title

[redacted] NORTHROP
Fire Department

507-399-3228 6-4-08
Phone Number Date

nfdfiredp@yahoo.com
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires X 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons X 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   19900 Nightengale SD NW City hall Parking lot water run's into Soccer feilds

OVER→

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Angus Fire power	Yes	100 gal	50 gal	~~100~~ 80 gal
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Rob Engler Captain
Name and Title

Oak Grove Fire
Fire Department

763-434-6485 6-1-08
Phone Number Date

Rob Engler at Q.com
E-Mail Address

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _X_ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _X_ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _X_ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   6633 - 15th ST. N. - Fire Station
   5000 Hadley Ave N, - Fire Station.

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF	~~[illegible]~~ Angus	NO	0-5 gal	yes	yes
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Angus	yes	30-50 gal	yes	yes
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jeff Anderson, Fire Chief
Name and Title

Oakdale
Fire Department

651-731-8886
Phone Number

Date

Jeff.anderson@oakdalefire.com 5/29/08
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually X Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   City limits

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Sil-Vex	yes	5 gl/tm	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Tom Mock — Secretary
Name and Title

Odessa · Farm — Fire Dept
Fire Department

320 273-2279 — 5-10-08
Phone Number — Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ✓ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually ✓ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons ✓ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ✓ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   111 No. 1st Street, Odin MN 56160

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Siloex	yes	5gal.	minimal <10y
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Paul J. Berg, Secretary
Name and Title

Odin Fire Department
Fire Department

507-736-2691 04/28/08
Phone Number Date

harderins@frontiernet.net
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   5 or less 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually ✓ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   1 Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ✓ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silv-ex	yes	?	same
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Ed Matt Fire Chief
Name and Title

Odessa Minn 56277
Fire Department

853 4545 — May 12/08
Phone Number — Date

E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires X 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   X Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   X Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Normally it is in the country at a vacant farm site or on a city street or service lane or business parking lot for auto fires.

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF	(Ansulite OR ANGUS)	yes	5 gallons	yes	yes
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	ANGUS	yes	10 gallons	yes	yes
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Joe Hennen Chief
Name and Title

OLIVIA, MN Volunteer Fire Dept.
Fire Department

320-523-2361 (City Hall) 5-29-08
Phone Number Date

jhennen@coopcounty.com
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _X_ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Ortonville Airport - East on Hwy 12
   Ortonville MN 56278
   Pro Auto - 547 US Hwy 12
   Ortonville MN 56278

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Si/v-ex	yes	5 gal	current
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Randy McLain - Fire Chief
Name and Title

Ortonville Fire Dept
Fire Department

320-808-8320 5-9-08
Phone Number Date

rmclain@wat.midco.net
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ✓ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually ✓ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons ✓ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ✓ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   South Maple St - Ottertail City

OVER→

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5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	1st defense	✓	0-5	-0-	75
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Myron Lueders, chief
Name and Title

Ottertail
Fire Department

218-367-2160 5/31/08
Phone Number Date

emylu@arvig.net
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _X_ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   PALISADE FIRE HALL
   48052 NATURE AVENUE
   PALISADE MN 56469

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	SILV-EX	No.	10gals	10gals
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

BRUCE ROBINSON CHIEF
Name and Title

PALISADE
Fire Department

218-845-2736 — 1 MAY 08
Phone Number — Date

HOBIBRUCE FRONTIERNET.NET
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires ✓ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually ✓ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   ✓ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ✓ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   4547 Hwy 100, Aurora, MN

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silv-ex	Yes	<5 gals	none
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Edward Kippley
Name and Title

Palo Regional Fire Dept
Fire Department

(H) 218-229-2867 (C) 218-780-2662 5/8/2008
Phone Number Date

Kippleye@co.st-louis.mn.us
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ✓ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   ✓ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually ✓ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   ✓ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ✓ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silv-ex	Yes	25 gallons	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

mark Simonson Chief
Name and Title

Parkers Prairie Minnesota
Fire Department

218-338-4115 (City Clerk office) 4-30-08
Phone Number Date

Fortwenglerelectric@Hotmail.Com or Simonsays@midwestinfo.net
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually X Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   City Airport

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	Chemguard AR3%		Less than 1 gal	
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silvex 0.1 to 1.0%			
Training Foam				
Other	Pyrocom TS-ECO			

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jack Winter Fire Chief
Name and Title

Paynesville Fire Dept.
Fire Department

320-243-3714
Phone Number

Date 4-28-08

jwinter@lakedalelink.net
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually X Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   X Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   2nd Ave NW & 4th St

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	U.S Firestrike	yes	5gal	Current
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silv-ex	yes	5gal	Current
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Trevor Steeves fire Chief
Name and Title

Pelican Rapids
Fire Department

218-863-5211 4/28/08
Phone Number Date

~~PFD Steeves~~ Prfd@loretel.net
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _X_ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _X_ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   New Almaden Ave Old Elementary Lot.

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Angus High Combat	Yes	5gal	Historic Use / Fire Fighting
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Mike Schackman Chief
Name and Title

Pennock Fire Dept Pennock Mn 56279
Fire Department

320-599-4139 5-7-08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?
   - X Yes - **Proceed to Question 2**
   - _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?
   - X 0-25% of fires
   - _____ 25-50% of fires
   - _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?
   - _____ Yes
   - X No

4. How often is foam used in training exercises?
   - _____ Weekly
   - _____ Monthly
   - _____ Quarterly
   - _____ Semi-Annually
   - _____ Annually
   - _____ Bi-Annually
   - X Other (please specify): We don't use foam for training

5. How much foam is used per training event?
   - X Less than 5 gallons
   - _____ 5 gallons
   - _____ 5 to 10 gallons
   - _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?
   - _____ Storm Sewer
   - _____ Sanitary Sewer
   - _____ On-Site Septic
   - _____ Ground
   - X Other (please describe): No foam on training drills.

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   We haven't used foam for training in at least 3yrs maybe more.

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	Lite water 3M	NO	we haven't	used B foam in 10 yrs
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silvex	NO	depends on how many fires	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Tom Nelson — Fire Chief
Name and Title

Pequot Lakes Fire
Fire Department

(218) 568-8201 — 4/29/08
Phone Number — Date

pequotfd@pequotlakes-mn.gov
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   2779 Big Lake Rd

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	?	NO		Fire only
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silvex	yes	2/gallon	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Steve Olson, chief
Name and Title

French Lake
Fire Department

218 879-5713 — 5/5/08
Phone Number — Date

steveolson@frontiernet.com
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

   _X_ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes
   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly
   _____ Semi-Annually _____ Annually _____ Bi-Annually
   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons
   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground
   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____
   _____
   _____
   _____

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

JEFF LOE - FIRE CHIEF
Name and Title

PERLEY - LEE TOWNSHIP FIRE AND RESCUE
Fire Department

[redacted] 701 - 238-0784 5-1-08
Phone Number Date

JLOE @ UR.COM
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires X 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   X Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   X Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Green Terrace Trails Park

OVER→

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Silver	X Yes	~~10 gal~~ 5 gal	yes	
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Kevin Schneider Asst. Chief
Name and Title

Pickwick Fire Dept
Fire Department

507-454-2263 05242008
Phone Number Date

E-Mail Address

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ✓ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually ✓ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   ✓ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ✓ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   2005 Last practice using foam at practice Intersection of 25 and 27 Pierz mn. 56364

OVER→

a member of: Inogen Environmental Alliance

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	Ansul - Mining & MFG	Annual	—	—	NA -
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Silvex	no	25	NA	NA
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Brian Jay Bosek — Fire Chief
Name and Title

Piere Fire Dept
Fire Department

320-468-6608 — 5-27-08
Phone Number — Date

pierzfire@mywdo.com
E-Mail Address

a member of Inogen Environmental Alliance

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _X_ Other (please specify): 3 To 4 YEARS

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   N/A Different spot each Time

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	SILV-EX	YES	less 1 gallon	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Randy Lee - Chief
Name and Title

Pillager Area Fire and Rescue
Fire Department

218-746-3621 4-29-08
Phone Number Date

www.Pillagerareafire@scicable.com
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ✓ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually ✓ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   ✓ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ✓ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Angus Combat / Silvex	no	100 gal	
Training Foam	~~Angus/Silvex~~ training	Yes	5 gal	
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Tom Miller Chief
Name and Title

Pine City Fire Dept
Fire Department

320 629 7405 5-2008
Phone Number Date

TMiller @ Youbetnet.com
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _X_ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _X_ Other (please specify): less than bi-annually

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _X_ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   fairgrounds – 1st St. Pine River

   School grounds – 1st St. " "

OVER→

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF	Ansulite			yes	yes
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Silv-Ex	yes	30 gal 3%	yes	yes
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

KEITH FARNAM CHIEF

Name and Title

PINE RIVER

Fire Department

218-587-2131 5/27/08

Phone Number Date

pvfd56474@yahoo.com

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually X Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   X Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   118 2nd Ave N.E. & 1400 Block of Apache Rd. in Pipestone Mn.

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silv-ex	yes	20gals	Fire Fight Training
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Mark Otten Fire Chief
Name and Title

Pipestone Fire
Fire Department

507-215-0561 cell 5-5-08
Phone Number Date

Markg@genmach@iw.net
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _X_ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _X_ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _X_ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   VARIOUS SITES AROUND THE CITY OF PLAINVIEW
   WE ALSO CONTACT THE SANITARY SEWER PLANT
   TO INFORM THEM THAT WE HAVE USE FOAM.

OVER→

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	SilVtex	Yes	10gal		
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Ed Jacobs Fire Chief
Name and Title

Plainview Fire Dept
Fire Department

Chief Cell
507-534-3242 507-959-7348 5-27-8
Phone Number Date

Firedept@plainview.mn.com
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires X 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Various

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam	~~Angus Hi Combat~~	~~yes~~	~~5-10 gallons~~	~~yes~~	~~yes~~
Class A	Angus Hi Combat	yes	5-10 gallons	yes	yes
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Tim Hoppel Chief
Name and Title

Platte Fire Dept.
Fire Department

320-583-6043 5-24-08
Phone Number Date

thoppel@nccombulance.com
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ___X___ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ___X___ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ___X___ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   ___X___ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   ___X___ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   ___X___ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Porter Fire Hall 301 Lone tree Street Porter MN

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	Silv-ex	yes	5gal	✓	
Class B Alcohol-Resistant (AR)-AFFF	Chemguard	yes	5gal	✓	
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A					
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Patrick Vlaminck Chief
Name and Title

Porter Fire Dept.
Fire Department

507-836-4475 5-27-08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _X_ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _X_ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _X_ Other (please describe): IN 15 yrs THAT I HAVE BEEN A MEMBER WE'VE USED CLASS A, 1 TIME TRAINING, 1 TIME FIRE & CLASS B 1 TIME TRAINING.

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   FILLMORE COUNTY FAIRGROUNDS
   FILLMORE STREET Co. Hwy 12
   PRESTON MN 55965

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	3M	Y	5GAL/THIS YEAR	NONE
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	SILV-EX	N	5GAL/@ 5YRS AGO	NONE
Training Foam CLASS A	CLARBY'S FIRST STRIKE	Y	5GAL/@ 10YRS AGO	NONE
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

JERRY OLSON CHIEF
Name and Title

PRESTON FIRE DEPT
Fire Department

HALL# 507-765-3801 HOME# 507-765-3327 5-7-08
Phone Number Date

jolson002@centurytel.net
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   ● Yes Siphon System

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly ● Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   VARIOUS LOCATIONS Mostly in Country - Gravel Roads old Farm sites

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silv-ex	yes	10 gal	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Bob Sportel Fire Chief
Name and Title

Fire Department

Prinsburg Fire Dept 5-2-08
Phone Number Date

320-978-8040
E-Mail Address

bsportel@prinsburgcorp.com

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires ✓ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually ✓ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons ✓ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   ✓ Storm Sewer ✓ Sanitary Sewer _____ On-Site Septic ✓ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Eagle Creek Ave @ Arcadia Ave (NW Corner) Spring 2007

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	3M	No	0-5 GAL	FUEL SPILLS
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	CHEMGUARD	Yes	50 GALS	STRUCTURE FIRES
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

DOUG HARTMAN, FIRE CHIEF
Name and Title

PRIOR LAKE
Fire Department

952-440-3473 5-1-08
Phone Number Date

DHARTMAN@CITYOFPRIORLAKE.COM
E-Mail Address

Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   X Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually X Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	Jet-X	NO	5-10 GALS	CAL FIRES
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silv-Ex	NO	15 GALS	HUNTER FIRES
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

John Benson Fire Chief
Name and Title

Proctor Fire
Fire Department

218. 628. 0787 5-11-2008
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _X_ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _X_ Other (please specify): Very Seldom

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Can't remember the last training

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	Angus - Tridol	No	Minimal	Minimal
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	High Combat A (Angus)	No	50 gal.	Current
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Dean Kapler Fire Chief
Name and Title

Ramsey
Fire Department

763-433-9859 4/28/08
Phone Number Date

dkapler@ci.ramsey.mn.us
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _X_ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _X_ Other (please specify): Very Little

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   At Fire Station, Lot across street

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	SiLvex	NO	30gals	Structure
Training Foam				
Other	Phenom AAB (Sticks)	NO	1-B/2-A	car fires + wildland

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self addressed envelope.

Questionnaire completed by:

PAT BOONE — Fire Chief
Name and Title

Randall
Fire Department

320-360-5240 — 4-29-08
Phone Number — Date

patriot.j.boone@us.Army.mil
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No WE HAVE FOAM TANK ON ENGINE BUT NOT COMPRESSED AIR

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   IT USED AT LIVE BURN TRAINING.
   THE ADDRESS IS DIFFERANT EVERY YEAR.

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	3M 3% - 6%			
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silv-Ex			
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

ARNE RANDOLPH Fire Capt. Equip Chair.
Name and Title

RANDOLPH HAMPTON FIRE
Fire Department

507 263-3797 6-5-2008.
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires ✓ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   ✓ Other (please specify): foam used for actual fires only

5. How much foam is used per training event?

   N/A

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   N/A

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   N/A

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other	silv-ex / Angus	N	10 gal	Current

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Tom Schneider Interim Chief
Name and Title

Red Wing Fire Dept
Fire Department

651 / 388 - 7141 4/28/08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   \ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   F No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly X Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons X 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Redwood City

a member of Inogen Environmental Alliance

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silv-ex	X	5991	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

MARK MAGES CHIEF
Name and Title

Redwood Falls Fire Dept
Fire Department

507-627-8417 5-10-08
Phone Number Date

E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   316 MAIN St. E. Remer MN. 56672

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	SILV-EX	Yes	50gal	Total - INC. Fires
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Paul Swentkofske Chief

Name and Title

Remer

Fire Department

218 566 2600 5/1/08

Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ___X___ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires ___X___ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ___X___ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually ___X___ Bi-Annually ?

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons ___X___ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   ___X___ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	1% 3m Light water	yes	(1-2 gal)	H
Class B Alcohol-Resistant (AR)-AFFF	3-6 3m Light water	yes		H
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	S.V.-EK/National	yes	5gal	C
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Mark Fairchild / Chief
Name and Title

Robbinsdale
Fire Department

763-531-1220 5.19.08
Phone Number Date

mfairchild@ci.robbinsdale.mn.us
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _X_ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas. (Class A Foam ONLY)

   Rochester Fire Station 1 5. Broadway & 6Th St., Rochester MN
   " " 2 Silver Lake Dr & 7TH ST N.E., Rochester MN
   " " 3 2755 2nd St. SW. Rochester MN
   " " 4 1875 41ST ST. NW Rochester MN

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF	T-Storm ANSUL??	NO	0	Yes	NO (Response only.)
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	[redacted] Sylvex Bx ANSUL	Yes	<10gal a year	NO	Yes
Training Foam					
Other	F500 Hazard Control Technologies Inc.	NO	500 Gal	Yes	Yes (Response only)

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Chuck Solseth, Training Captain
Name and Title

Rochester Fire Dept, Rochester MN
Fire Department

507-328-2819 5/29/08
Phone Number Date

CSolseth@RochesterMN.Gov
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?
   - [X] Yes - **Proceed to Question 2**
   - [ ] No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?
   - [X] 0-25% of fires
   - [ ] 25-50% of fires
   - [ ] 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?
   - [ ] Yes
   - [X] No

4. How often is foam used in training exercises?
   - [ ] Weekly
   - [ ] Monthly
   - [ ] Quarterly
   - [ ] Semi-Annually
   - [X] Annually
   - [ ] Bi-Annually
   - [ ] Other (please specify): _____

5. How much foam is used per training event?
   - [ ] Less than 5 gallons
   - [X] 5 gallons
   - [ ] 5 to 10 gallons
   - [ ] More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?
   - [ ] Storm Sewer
   - [ ] Sanitary Sewer
   - [ ] On-Site Septic
   - [X] Ground
   - [ ] Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   2021 41 St NW Rochester MN

We currently use a product called F-500 which is an emulsifier in place of foam. We have foam in stock but use it less often than we did 5yrs ago.

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	3M	yes	5	
Class B Alcohol-Resistant (AR)-AFFF	—			
Class B Protein	—			
Class B Fluoroprotein (FP)	—			
Class B Film-Forming Fluoroprotein (FFFP)	—			
Class B AR-FFFP	—			
Class A-B Hi Expansion Foam	—			
Class A	3M	yes	5	
Training Foam	—			
Other	emulsifier	F-500 yes	25	

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Dan Slavin Deputy Chief
Name and Title

Rochester F.D.
Fire Department

507 328 2813 4/30/08
Phone Number Date

dslavin@rochestermn.gov
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _X_ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   111 Broadway Rollingstone MN 55969

a member of. Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	ANGUS	YES	5-10 GAL	—
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

JAMES JACOBI CHIEF
Name and Title

BULLHEAD LAKE MN
Fire Department

507-459-0481 4-25-08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ✓ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   ✓ Other (please specify): Just recently purchased a new pumper with class A foam - Haven't had much opportunity to use it yet.

5. How much foam is used per training event?

   ✓ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ✓ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Very small amount was used for training at the Fire Station, in the yard

a member of: Inogen Environmental Alliance
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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Ansul Sylvex	Yes		
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

AL Mullenbach - Asst Chief
Name and Title

Rose Creek Volunteer Fire Dept
Fire Department

507-437-4283 — 5/6/08
Phone Number — Date

E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually X Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons X 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Roseau County Fairground's Field

   Main Ave North

OVER→

a member of Inogen Environmental Alliance

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Chemguard	X	20gal	15gal	✓
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Timothy A. Skime CHIEF
Name and Title

Roseau
Fire Department

218-463-0750 6/10/08
Phone Number Date

taskime@yahoo.com
E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls? Used 30 times per year on structure Fires

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _X_ Other (please specify): We do not use foam during trainings

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

We do not use Foam for training only real Fire incidents

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5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Neil Sjostrom — Fire Fighter
Name and Title

Roseville Fire Dept.
Fire Department

651-792-7009 — 4/28/08
Phone Number — Date

Neil.Sjostrom@ci.roseville.mn.us
E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _X_ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _X_ Storm Sewer _X_ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   14700 Shannon Pkwy

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other	F-500	NO	5-15gal	Current

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Scott Aker Chief
Name and Title

Rosemount
Fire Department

651-322-2066 4/28/08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   N/A

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	ANGUS				
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

TOM WEINAND

Name and Title TOM-WEINAND CHIEF

ROYALTON FIRE DEPT

Fire Department

Phone Number

5/26/08

Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _X_ Other (please specify): &

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): &

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Fire Station 325 W 5TH St Rush City MN 55069

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	ANGUS	NO	Q	
Class B Alcohol-Resistant (AR)-AFFF	Q			
Class B Protein	Q			
Class B Fluoroprotein (FP)	Q			
Class B Film-Forming Fluoroprotein (FFFP)	Q			
Class B AR-FFFP	Q			
Class A-B Hi Expansion Foam	Q			
Class A	ANGUS	NO	60 6AK	
Training Foam	Dreft Laundry Soap	YES	5gAL 75	
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Chris Nelson Asst Chief
Name and Title

Rush City Fire Dept
Fire Department

320-358-4743 05/04/08
Phone Number Date

NA
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   X Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   open lot in Industrial Park Culdusac on Enterprise Drive

OVER→

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Silv-ex	X	15 Gal	5 Gal	15 Gal year
Training Foam	Silv-ex	X	5 Gal	0	5 Gal year
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Michael EBNER Rushford Fire chief
Name and Title

Rushford Fire Dept
Fire Department

507-864-7206 Home 6/2/08
Phone Number Date

MEBNER@AceGroup.cc
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _X_ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   city dump

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silv-ex	yes	2 gals	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Larry L Lapkes chief
Name and Title

Rushmore Fire Dept
Fire Department

507-478-4338 — 4/ 507-478-4338
Phone Number — Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _X_ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _X_ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): dont use during training

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

_____

_____

_____

_____

_____

_____

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A					
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Name and Title

(Russell, MN 56169)

Fire Department

Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _X_ Yes

   _____ No

4. How often is foam used in training exercises?

   _X_ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

→ FOAM IS TO expensive to USe For trainings

   _____

   _____

   _____

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Silvex	NO	5 gallons	?	Depends on amount of fires.
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

PAUL Beck — Chief
Name and Title

Sacred Heart Fire
Fire Department

320-765-2292 — Fire Hall — 6-5-08
Phone Number — Date

NONE
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _X_ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   SAUKTOAK FIRE HALL - 114 MAIN ST. SAUKTOAK, MN

OVER→

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	SILVER	X	50 GALLON	~	
Training Foam	~				
Other	~				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

ANDY P. ANDREWS
Name and Title

SAINT STONE FIRE DEPARTMENT
Fire Department

320-244-2155
Phone Number

Date 5/27/08

ANDYANDREWS1@GMAIL.COM.
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   ___ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires ___ 25-50% of fires ___ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   ___ Yes

   X No

4. How often is foam used in training exercises?

   ___ Weekly ___ Monthly ___ Quarterly

   ___ Semi-Annually ___ Annually ___ Bi-Annually

   ___ Other (please specify): Maybe Yearly or Bi Yearly -

5. How much foam is used per training event?

   X Less than 5 gallons ___ 5 gallons ___ 5 to 10 gallons

   ___ More than 10 gallons (please specify): ___

6. In training, where does the spent foam go?

   ___ Storm Sewer ___ Sanitary Sewer ___ On-Site Septic X Ground

   ___ Other (please describe): ___

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Open Area in the City -

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5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	Angus AL-6 Seal 3%	No	Not much	
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam	Angus Foam Liq	No	40 bails	Fire Hall only
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Ken Heim Fire Chief
Name and Title

Scandia - LeSauk Fire Dept.
Fire Department

320 - 258-7371 Fax 320-656-1407
Phone Number Date

Apr. 30 2008

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?
   - ✓ Yes - **Proceed to Question 2**
   - _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?
   - ✓ 0-25% of fires
   - _____ 25-50% of fires
   - _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?
   - ✓ Yes
   - _____ No

4. How often is foam used in training exercises?
   - ✓ Never
   - _____ Weekly
   - _____ Monthly
   - _____ Quarterly
   - _____ Semi-Annually
   - _____ Annually
   - _____ Bi-Annually
   - _____ Other (please specify): _____

5. How much foam is used per training event?
   - _____ Less than 5 gallons
   - _____ 5 gallons
   - _____ 5 to 10 gallons
   - _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?
   - _____ Storm Sewer
   - _____ Sanitary Sewer
   - _____ On-Site Septic
   - _____ Ground
   - _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

_____

_____

_____

_____

_____

_____

OVER→

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5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Silver	NO	1500 gal		
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Keith Polipnick Chief
Name and Title

Sauk Centre Fire
Fire Department

320-352-2203 6-2-08
Phone Number Date

Keith.Polipnick@ci.sauk-centre.mn.us
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ✓ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually ✓ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   ✓ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ✓ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Sauk Rapids High School
1835 Osauka Rd
Sauk Rapids MN. 56379

- we do not use actual foam for training. Because of Budget Issues, we use Dawn dish Soap for trainging. it has been at least two years since we applied foam on a fire.

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A Training Foam	Dawn dish Soap	yes	1- Bottle	Current.
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Tony Hommerding Chief, SRFD
Name and Title

Sauk Rapids Fire Dept.
Fire Department

320-980-4808 - Chiefs cell 4-29-2008
Phone Number Date

thommerding@charter.Net
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons X 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Fire Hall
   3518 320th St.
   Cushing MN. 56443

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	Yes	No	0	
Class B Alcohol-Resistant (AR)-AFFF	—			
Class B Protein	—			
Class B Fluoroprotein (FP)	—			
Class B Film-Forming Fluoroprotein (FFFP)	—			
Class B AR-FFFP	—			
Class A-B Hi Expansion Foam	—			
Class A	yes	yes	25 gal	est. purchase / year
Training Foam	—			
Other	—			

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Steve Zahler Chief
Name and Title

Scandia Valley FD
Fire Department

218-575-3111 5-8-08
Phone Number Date

steve z @ brainerd.net
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   X Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   X Other (please specify): one time

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   not sure - when needed new truck
   Dewey Av - Scanlon

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silv-Ex	No	< 5gal	Both
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Ross Zegan
Name and Title

Scanlon F.D.
Fire Department

(city hall #)
Phone Number

6-6-08
Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _X_ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Tofte Patch - OLD Hwy 61 -

OVER→

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5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	chemguard	Yes	10 Gal.	Yes	Yes
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

PHIL Bonin - chief
Name and Title

SCHROEDER FIRE DEPT.
Fire Department

218-663-7522 (H) 663-7756 HALL
Phone Number Date

SFIRE@BOREAL.org 6-7-08
E-Mail Address

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ✓ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually ✓ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   ✓ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ✓ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Main & Oak St. Seaforth, MN

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A Training Foam	Trainol	yes	less than 5 gal,	current
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Deb Wilson
Name and Title

Seaforth
Fire Department

507-964-5956 — 4/30/08
Phone Number — Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

   X No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Barry Bouwman, Fire Chief
Name and Title

Sedan Fire & Rescue
Fire Department

320-424-0194 5/28/08
Phone Number Date

barry.bouwman@co.pope.mn.us
E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   X Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   X Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Main & 2nd St, Eyota

   1-Eyota Temperance Lake Rd -

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	SILVEX	YES	56 GAL	56 GAL	56 GAL
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Name and Title

Fire Department

Phone Number

Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ___✓___ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ___✓___ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ___✓___ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): NONE

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	SILV-EX		VERY LITTLE	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

JON ISAACS
Name and Title

TREASUR
Fire Department

SILICA VOLUNTEER FIRE Dept
Phone Number

Date

218 263-9314

MAY 2 2008
E-Mail Address

NONE

a member of: Inogen Environmental Alliance

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ___X___ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ___X___ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   ___X___ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   ___X___ Other (please specify): Almost never

5. How much foam is used per training event?

   ___X___ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   ___X___ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   near or infront of Fire Hall

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silvex + Hi Compat	NO	20 gal	at fires 20 to 30 Gallons per 5 year period
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

John Fredrickson Chief
Name and Title

Silver Bay
Fire Department

218-226-0059 5-12-08
Phone Number Date

Silverbayfire@Lakenet.com
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ✓ 0-25% of fires (vehicle fire) _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually ✓ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   ✓ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ✓ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   305 EAST Main ST - Public Wks material Storage AREA - Covered AREA

OVER→

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	Angus - Tridex	Yes	3-5gals	yes	no
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A					
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Dale Kosek Assistant Chief
Name and Title

Silver Lake Fire Dept.
Fire Department

320 327 2412 5/29/08
Phone Number Date

dale.kosek@mchsi.com
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

   X No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Roger Hermanson, (Chief)
Name and Title

Skyline
Fire Department

507 3884975 5-3-08
Phone Number Date

E-Mail Address

Roger B Hermanson

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   X Yes

   _____ No

4. How often is foam used in training exercises?

   X Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event? N. A.

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go? N. A.

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   NONE TOO EXPENSIVE TO WASTE

OVER→

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)		NO	0	NO	NO
Class B Alcohol-Resistant (AR)-AFFF	3M	NO	10 GAL	YES	YES
Class B Protein		NO	0	NO	NO
Class B Fluoroprotein (FP)		NO	0	NO	NO
Class B Film-Forming Fluoroprotein (FFFP)		NO	0	NO	NO
Class B AR-FFFP		NO	0	NO	NO
Class A-B Hi Expansion Foam		NO	0	NO	NO
Class A	SILV-EX	NO	20 GAL	YES	YES
Training Foam		NO	0	NO	NO
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

THOMAS MOLDASCHEL CHIEF
Name and Title

SLEEPY EYE MINNESOTA
Fire Department

507-794-6652 5-27-08
Phone Number Date

E-Mail Address

Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   X Other (please specify): once every 2 years

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   in Ditch by Fire Hall. We spray less than 1 gallon just to system test.

   137 2nd St NW
   Solway, Mn. 56678

OVER→

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF	Unsure ... we use Sylvex and get it from Minn. DNR. So ... if you know what rating that is that would be ours too! Thanks				
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A					
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Kevin L. Larson (Treasurer) ... Chief Not available
Name and Title

Solway Rural Volunteer Fire Dept.
Fire Department

Treasurer Work phone: 218-694-6292 5-29-08
Phone Number Date

— o —
E-Mail Address

a member of: Inogen Environmental Alliance

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires ✓ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   ✓ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly ✓ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   ✓ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ✓ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   4027 Munger Shaw Rd Cloquet MN 55720

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Chemguard	Yes	50 gal	also used in fires
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Wayne Sulin, Fire Chief
Name and Title

Sdlway Township Volunteer Fire Department
Fire Department

218-729-6304 — 5/27/08
Phone Number — Date

sdlwayvfd@hotmail.com
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): None Used

5. How much foam is used per training event?

   0 Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): Not Used

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	ANSUL Lite	NO	5gal	
Class B Alcohol-Resistant (AR)-AFFF	ANSUL Lite	NO	5gal	
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silv-ex	NO	20gal	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Robert M. Sutch Fire Chief
Name and Title

South Bend Township Volunteer FD
Fire Department

507-345-4863 507-327-9433-cell
Phone Number Date

SBFD@Juno.Com 4/29/08
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?
   - [X] Yes - **Proceed to Question 2**
   - [ ] No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?
   - [ ] 0-25% of fires
   - [ ] 25-50% of fires
   - [X] 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?
   - [X] Yes
   - [ ] No

4. How often is foam used in training exercises?
   - [ ] Weekly
   - [ ] Monthly
   - [ ] Quarterly
   - [ ] Semi-Annually
   - [ ] Annually
   - [X] Bi-Annually
   - [ ] Other (please specify): _____

5. How much foam is used per training event?
   - [X] Less than 5 gallons
   - [ ] 5 gallons
   - [ ] 5 to 10 gallons
   - [ ] More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?
   - [ ] Storm Sewer
   - [ ] Sanitary Sewer
   - [ ] On-Site Septic
   - [X] Ground
   - [ ] Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   DO Not have. Last trainings were with other depts.

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5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP			depends on fire calls	
Class A-B Hi Expansion Foam				
Class A	Angus - HI Combat A	Yes		
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Brian Lemke - Chief
Name and Title

South Haven
Fire Department

320-309-0335 — 4-30-08
Phone Number — Date

BWSigns@hotmail.com
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   X Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   X Other (please describe): NEVER USED IN TRAINING BEFORE

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silvex	NO	unknown	0
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Tige Sluka Captain
Name and Title

Spicer Fire Dept.
Fire Department

320-796-2416 5/4/08
Phone Number Date

Spicerfire@TDS.NET
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ✓ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   ✓ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually ✓ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   ✓ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ✓ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Rural sites - Vary -

OVER→

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Angus	Yes (minimal)	Less than 5 gallons	✓	✓
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jeffrey Ellingson / Chief
Name and Title

Spring Grove Fire Dept
Fire Department

507-450-7121 5-29-08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires X 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   X Other (please specify): occasionally with new equipment

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   North Metro Fire Training Center
   300 71st Ave
   Fridley, MN 55432

member of Inogen

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	ANSUL - A	yes	150 gal Approx	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Dan Anderson - Firefighter
Name and Title

SBM Fire Department
Fire Department

763-786-4430 4/30/08
Phone Number Date

danderson@sbmfire.com
E-Mail Address

Inogen
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually X Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   X Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   2800 Block of Anthony Lane South
   St. Anthony, MN. 55418

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a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF	Ansulite	NO		YES	5 GAL.
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Silv-Ex	YES	2-3 GAL.	YES	30 GAL.
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

JOHN MALENICK FIRE CHIEF
Name and Title

ST. ANTHONY FIRE
Fire Department

612-782-3400 MAY 29, 2008
Phone Number Date

jmalenick@ci.saint-athony.mn.us
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _X_ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _X_ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _X_ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	ANGUS: HI-COMBAT A	Y	10 GAL	BOTH
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

SCOTT NEGWOLD SAFETY OFFICER
Name and Title

ST. BONI FIRE DEPT
Fire Department

952-446-1404 5.1.08
Phone Number Date

SBFIRE@FRONTIERNET.NET
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

Nancy Rodning

651-639-9473

From St. Charles FD

From Jim Stacky

DELTA

QUES
Firefighting Fo

1. Does your Department currently or has your Department historically us firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Co**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   X Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually X Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. ~~Where does/did the training take place? Please include address, intersection or other specific location~~ information for current and past training areas.

   WINONA COUNTY FAIR GROUNDS, ST. CHARLES, MN

   ST. CHARLES CITY SHOP, ST. CHARLES MN

OVER→

Inogen
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

MAY 30 2008

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	AMEROS	YES	>5gal	X	
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jeremy Neumann asst. Fire Chief
Name and Title

St Charles Fire + Rescue
Fire Department

507-932-4090 5-28-08
Phone Number Date

JDPETE4@yahoo.com
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   0 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   ✓ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons ✓ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   ✓ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   City of St. Clair

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Name and Title

St. Clair

Fire Department

Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   X More than 10 gallons (please specify): 20 gallons foam + about 40 gallons of Training foam

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Open field near Sta. 2, 700 41st Av N

   Sta. 1 1550 45th Av SE - Airport Sta.

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	Chemguard	yes	20	Current
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam	Chemguard	yes	40	yes
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Dean WROBBEL - Deputy chief
Name and Title

ST. CLOUD
Fire Department

320 - 650-3528 4/28/08
Phone Number Date

dean.wrobbel@ci.stcloud.mn.us
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

   only car or structure

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   City parking lot

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF	Angus	Y	>5gal	Y	Y
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Angus	Y	75gal	Y	Y
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Ken Pace - Fire Chief
Name and Title

St. Francis Fire
Fire Department

763 753 2334 — 6/10/08
Phone Number — Date

Kpace18@aol.com
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

3 of 4

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   X Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually ✓ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   X Other (please describe): In House That we Burn

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   11TH ST SOUTH House we BURNED Down FOR TRaining

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Silver ex	V	39+L	yes	Just got the truck 3 years ago
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jason Monnens CHIEF
Name and Title

ST James Fire [redacted] Department
Fire Department

507-375-1220 5-29-08
Phone Number Date

ST James Fire CHief @ embarqmail.com
E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   X Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   PARKING LOT ON EAST SIDE OF CAMPUS (SCIENCE LOT #2)

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	3M	NO	LESS THAN 1 CUP	SPRING 04 2 GALLONS
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A		YES	1 CUP	FALL 07
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

JAY BOHAN - FIRE CHIEF/ASSISTANT SAFETY DIRECTOR
Name and Title

ST. JOHN'S UNIVERSITY
Fire Department

(320) 363-2742 6-11-08
Phone Number Date

JBOHAN@CSBSJU.EDU
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires X 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Typically done in Gravel parking lots on outskirts of the city

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	ANGUS	Both	10-15 Gal	10-20 Gal/yr.
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Randy Torborg — Fire chief.
Name and Title

ST Joseph Fire Dept.
Fire Department

(320) 229-1570 — 4-28-08
Phone Number — Date

stjoefire@hotmail.com
E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

   X No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Dan Kloos — Fire Chief
Name and Title

St. Leo
Fire Department

507-829-7035 5-1-08
Phone Number Date

E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires X 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually [redacted] Annually _____ Bi-Annually

   X Other (please specify): Don't use for training

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic [redacted] Ground

   X Other (please describe): N/A

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   N/A

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	AnsuLite	No		Petroleum Fires
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Sil Vex	No		Structure Fires
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Mark Windschitl Assistant Chief
Name and Title

St. Louis Park Fire
Fire Department

952-924-2169 05-14-08
Phone Number Date

mwindschitl@stlouispark.org
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): Very Little

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Fire Dept Park Lot

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silvex	No	1 gallon	Do not use Much Foam At All
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Tim Schaefer Secretary
Name and Title

ST MARTIN
Fire Department

(320) 548-3569 5-5-08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _X_ Other (please specify): when we have a recruit Academy (Aprox. every 18 months

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _X_ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   1683 Energy Park Drive, St. Paul, MN 55108

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	3M Light water Atc	yes	15 gallons	Historic
Class B Alcohol-Resistant (AR)-AFFF	3M Light water Atc	yes	" "	Historic
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam	Kidde Hi-Ex	yes	12 oz	Current Historic
Class A	3m Light water	No	2 gallons	Current
Training Foam				
Other	Ansulite 3%	NO	5 gallons	Current

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Clarence E Hawkins
Name and Title

St. Paul Fire Dept.
Fire Department

651-644-9133 04/30/08
Phone Number Date

Clarence.hawkins@ci.stpaul.mn.us
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons X 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer X On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Marathon Petroleum LLC 100 3rd Ave SE Paul Park MN 55071 Training Grounds

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	3M Light Water	Yes	5 To 10 gals	< 50 gals
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

MICHAEL NIEHAUS Asst Chief
Name and Title

ST Paul Park Fire Department
Fire Department

651 459 9918 4-28-2008
Phone Number Date

sppfdassistantchiefa@yahoo.com
E-Mail Address

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

   _____

   _____

OVER→

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	ANGUS FIRE POWER	✓	50 GAL	20 GAL	35 GAL
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

WINDY BLOCK - FIRE CHIEF
Name and Title

ST PETER FD
Fire Department

507-934-1120 — 28 MAY 08
Phone Number — Date

STFIRE@HICKORYTECH.NET
E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires X 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   ✓ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ✓ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for cur...

   2 6th Ave SE St Stephen MN

OVER→

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Angus Hi Combat A	Yes	20 gl	Yes	Yes
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jeff Drafs Asst Chief
Name and Title

St Stephen Fire + Rescue
Fire Department

320 251-0946 6-2-08
Phone Number Date

Firestation@SSFD.ORG
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _X_ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   30785 FOREST BLVD STACY, MN 55079
   EAST SIDE OF FIRE STATION IN PARKING AREA

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Angus Hi-Combat	YES	30 gal.	CURRENT
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

KERRY OLSON — FIRE CHIEF
Name and Title

STACY-LENT AREA VOL. FIRE DEPT
Fire Department

651-462-3389 — 5-3-08
Phone Number — Date

STACYLENTFIRE@FRONTIERNET.NET
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Usually used in a field with old Farm Structures - Abandoned lots -

a member of: Inogen Environmental Alliance

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Answer/Age Silver	Yes	5gal	Current
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Scott Braith Fire chief
Name and Title

Staples Fire Dept
Fire Department

218-894-2550 5-8-08
Phone Number Date

NAPAStaples@Yahoo.COM
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires X 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   X Other (please specify): 2 - 3 times / year

5. How much foam is used per training event?

   _____ Less than 5 gallons X 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   X Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Prior + Martina st. Stewart, MN

   Hall st. + Winona st. Stewart

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	Universal Gold 1% 3%	No	Less than 5 gal	N/A
Class B Alcohol-Resistant (AR)-AFFF	Ansulite ARC 3+6%	No	Less than 5 gal	N/A
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silv-ex	Yes	10-50 gal	N/A
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Dean Nelson Fire Chief
Name and Title

Stewart Fire Department
Fire Department

320-562-2800 5-5-08
Phone Number Date

stewart_fire2@hotmail.com
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ✓ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   ✓ Other (please specify): not used for training

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

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5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	3M light water	no	5-10 gal	
Class B Alcohol-Resistant (AR)-AFFF	3M	no	5-10 gal	
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Steve Wolf – Fire Chief
Name and Title

Stewartville Fire Dept.
Fire Department

507-533-8711 4/30/08
Phone Number Date

steven.wolf@state.mn.us
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires X 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   X Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly X Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   X Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   TRAINING HELD AT FOLLOWING (MAJORITY)

   STILLWATER FIRE 216 N. 4TH ST. STILLWATER MN. 55082

   OLD PUBLIC WORKS 216 N. 5TH ST. " " "

   NEW PUBLIC WORKS 3325 BOUTWELL RD. " " "

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	ANSUL Lite	NO	0-1 Gallon	Current
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	SILV-ex	YES	Approx. 20 5gal. kits	Current
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

CHAD JANSEN — CAPTAIN
Name and Title

STILLWATER FIRE DEPT.
Fire Department

651-351-4950 — 5/2/08
Phone Number — Date

Cjansen @ ci.stillwater.mn.us
E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

   _X_ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

   _____

   _____

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A					
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

James Feldman
Name and Title

James Feldman Asst. Chief
Fire Department

Sunburg Vol. Fire Dept.
Phone Number

320 366 3518 Date 5-29-08
E-Mail Address

a member of: Inogen Environmental Alliance None

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   inside of fire fighting area for fire dept which covers different townships

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silvex	yes	less than 5 gallons	Current
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jerry Hollermann / Fire Chief
Name and Title

Swanville Rural Fire Assoc
Fire Department

320-547-2918 — 4/30/08
Phone Number — Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _X_ Other (please specify): only when needed it is to costly to train with we use Dawn dish soap a lot

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   no specific location

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	DIAMOND	NO		
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

DON HANSON
Name and Title

CHIEF
Fire Department

TACONITE 5-3-08
Phone Number Date

245 3744 OR 245 3660 HOME
E-Mail Address CELL 218 244 4128

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

   _X_ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jim Rosch Chief
Name and Title

Taw Yon Fire Dept
Fire Department

1-507-532-4088 work 507-872-5416 Home
Phone Number Date

jim.rosch@hirelsystems.com 4-8-08
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires X 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons X 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Behind Fire Hall
   637 First St
   TAYLORS FALLS, MN

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	ANGUS	NO	AS LITTLE AS possible	current
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	ANGUS	X	10-15 gal	current
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Kevin Rivard - Fire Chief
Name and Title

TAYLORS FALLS
Fire Department

(651) 465-5133 — 5/1/08
Phone Number — Date

N/A
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   10 % 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): Do Not Train with Foam

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

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5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	3M	No		
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silvex	No	15 gals	yes
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jerry Stenseth Co Fire Chief
Name and Title

Thief River Falls Fire Dept
Fire Department

218 681 3943 — 4-29-08
Phone Number — Date

FireChief at CityTRF.net
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires X 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

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5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	VARIES	YES	<200 GALLONS	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self addressed envelope.

Questionnaire completed by:

JEFF JUNTUNEN, CHIEF
Name and Title

ESKO FIRE & RESCUE Thompson Twp
Fire Department

218 879-8931 4-29-08
Phone Number Date

JEFFJFM@MSN.COM
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

   ___✓___ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

a member of: Inogen Environmental Alliance

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Henry Petermann — Sec./Treas
Name and Title

Tintah Fire + Rescue
Fire Department

218-369-2150 — 4-28-08
Phone Number — Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _X_ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _X_ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _X_ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Fire Hall - 7240 Noble Park Road

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silvex	Yes	5Gal	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Richard Nelson - Fire Chief
Name and Title

Tofte Fire Dept.
Fire Department

218-663-7914 — 4-28-08
Phone Number — Date

RiNelson
E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   X Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): None

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): None

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   No training on Foam

OVER→

a member of: Inogen Environmental Alliance

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A					
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Name and Title: Rolando Noyes

Fire Department: Fire Chief

Phone Number: Tower Fire

Date: 218 753-5212 6/2/08

E-Mail Address: Rolando Noyes at Hotmail.Com

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

   _X_ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

_____

_____

_____

_____

_____

_____

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A					
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Dale Johnson TF Fire Chief
Name and Title

Tracy Fire Dept
Fire Department

507 629-5544 28-May-08
Phone Number Date

tfdI@iw.net
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Varies

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam	Fire trol	yes	10 gal	
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

David Snetsinger Chief
Name and Title

Twin Lakes VFD
Fire Department

(218) 935-5905 5-7-08
Phone Number Date

snyde@hotmail.com
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires X 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   X Other (please specify): rarely

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Have not did training for a long time with foam. I do not remember where it was.

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	[redacted]	[redacted]		
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silver	NO	50 gallons	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Bruce Garberg Fire Chief
Name and Title

Twin Valley Fire Department
Fire Department

218-584-5400 05/05/08
Phone Number Date

gfoods@arvig.net
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires X 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly X Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   20% Storm Sewer _____ Sanitary Sewer _____ On-Site Septic 80% Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Corner of Bradley & Applebee

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	ANGUS			
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silv-ex			
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Richard Borresen chief
Name and Title

Tyler Fire Dept.
Fire Department

507 247-5554 4/30/08
Phone Number Date

ridiane @ frontiernet.net
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

   __X__ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

DAVE BEGG CHIEF
Name and Title

ULEN PO Box 121 ULEN MN 56585
Fire Department

218 596-8504 5-4-08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _X_ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _X_ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   FIRE DEPT PARKING LOT WITHIN THE CITY OF UNDERWOOD

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	SILV-EX	YES	10-15-GAL	?
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

BRUCE HUSETH CHIEF
Name and Title

UNDERWOOD FIRE DEPT.
Fire Department

218-826-6666 4-30-08
Phone Number Date

blhuseth@prtel.com
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _X_ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _X_ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _X_ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _X_ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   110 West Elm Ave
   Upsala, MN

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam	Unsure	X	5-10 gal	
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jay Baggenstoss Fire Chief
Name and Title

Upsala
Fire Department

320-573-4101 5-12-08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _X_ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _X_ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   3595 Arcade St. Vadnais Heights, MN 55127
   in South parking lot.

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	3M	NO	<5gal	~~Current~~ Both
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Sil-Vex / Ansul	somewhat	<5gal.	Both
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Matt Sather - Fire Technician
Name and Title

Vadnais Heights Fire Dept.
Fire Department

651-204-6044 4-25-08
Phone Number Date

msather@cityvadnaisheights.com
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires X 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   X Other (please specify): very rarely

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Varies - training takes place in various townships & locations

OVER→

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5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	Ansul-te	Yes	2gal	yes	yes
Class B Alcohol-Resistant (AR)-AFFF	none				
Class B Protein	none				
Class B Fluoroprotein (FP)	none				
Class B Film-Forming Fluoroprotein (FFFP)	none				
Class B AR-FFFP	none				
Class A-B Hi Expansion Foam	none				
Class A	Angus	yes	40gal	yes	yes
Training Foam	none				
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Karin Zitzow - Engineer
Name and Title

COH-Vegas
Fire Department

218-342-2444 5/28/08
Phone Number Date

vegasfire@arvig.net
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is ~~Class B~~ or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _X_ Other (please specify): Once every 2-4 years

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

* State Hwy 1 ~ ½ mi W of Jct w/ State Hwy 169 (near Pike River)
* Jct of Hwy 1 & 169
* St Louis Co Rd 26 just west of N. Ahlstrand Rd

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5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	ANSUL SILV-EX	Y	Less than 5g	Current
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

STEVEN LOTZ, chief
Name and Title

Vermilion Lake
Fire Department

218 742 7017 ← 5-5-08
Phone Number Date

vlchief@localnet.com ← For use w/ this Survey only - Not to be Distributed, passed on or Printed in Report
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _X_ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Brown St. & 1st Ave in Verndale, MN

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silvex	Yes	10 to 15 gals	Current in use
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Donald Weniger Training Officer
Name and Title

Verndale Fire & Rescue Dept.
Fire Department

218-445-5601 28 April 08
Phone Number Date

bweniger@scicable.com
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

   __X__ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

   _____

   _____

OVER→

a member of Inogen Environmental Alliance

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A					
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Arnold Welesti Fire chief
Name and Title

Viking fire Dept.
Fire Department

(218) 523-4045 5/29/08
Phone Number Date

welesti@wiktel.com
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _X_ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   Too Expensive →

   _X_ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

_____

_____

_____

_____

_____

_____

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam	Regal Chemical	No	5 gal		30 gal
Class A					
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Larry Gaffaney - Fire Chief
Name and Title

Villard Fire + Rescue
Fire Department

320-554-7875 — 6-3-08
Phone Number — Date

E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   __X__ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires __X__ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   __X__ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly __X__ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   __X__ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   __X__ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Fire Hall
   115 4th Ave N
   Virginia MN

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	3M	No	NA	Historic
Class B Alcohol-Resistant (AR)-AFFF	3M	NO	NA	Historic
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silvex	yes	45 gal	Current
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Darrell Knapper Chief
Name and Title

@ Virginia Fire Department
Fire Department

218 748 7520 4-28-08
Phone Number Date

Knapperd @ VirginiaMN.us
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires ✓ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   ✓ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually ✓ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons ✓ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   7550 Airport Rd., 8075 Paradise Lane,
   26 Maple St. S.

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5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	Angus	yes	<5 gallons	?
Class B Alcohol-Resistant (AR)-AFFF	Angus	yes	<5 gallons	?
Class B Protein	—	—	—	—
Class B Fluoroprotein (FP)	—	—	—	—
Class B Film-Forming Fluoroprotein (FFFP)	—	—	—	—
Class B AR-FFFP	—	—	—	—
Class A-B Hi Expansion Foam	—	—	—	—
Class A	Angus	yes	>50 gals.	?
Training Foam	—	—	—	—
Other	—	—	—	—

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Randall D. Sorensen Fire Chief
Name and Title

Waconia
Fire Department

952-442-2316 April 27, 08
Phone Number Date

Fire@waconia.org
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?
   - ✓ Yes - **Proceed to Question 2**
   - _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?
   - ✓ 0-25% of fires
   - _____ 25-50% of fires
   - _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?
   - _____ Yes
   - ✓ No

4. How often is foam used in training exercises?
   - _____ Never
   - _____ Weekly
   - _____ Monthly
   - _____ Quarterly
   - _____ Semi-Annually
   - ✓ Annually
   - _____ Bi-Annually
   - _____ Other (please specify): _____

5. How much foam is used per training event?
   - ✓ Less than 5 gallons
   - _____ 5 gallons
   - _____ 5 to 10 gallons
   - _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?
   - X Storm Sewer
   - _____ Sanitary Sewer
   - _____ On-Site Septic
   - X Ground
   - _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   19 13th Ave N
   4th Str N + 4th Ave N

OVER→

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	Chem Gaurd	NO	5	yes	yes
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Silv-ex	yes	5gal	yes	yes
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Gary Curtis Fire Chief
Name and Title

Waite Park Fire Dept
Fire Department

320-252-4712 5-27-08
Phone Number Date

Firechief@waitepark.org
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   X Other (please specify): BI Monthly

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   X Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   City OF WAIDORF MAIN STREET

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	Royal Chemical Inc	Yes	55 Gallons	Yes
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Adam Groskreutz — Chief
Name and Title

Waldorf Fire & Rescue
Fire Department

507-239-0124 Home Number
507-239-2248 Fire Hall Number — 4-28-08
Phone Number — Date

adams@mycleanwave.net
E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

   X No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Samoge Rohnberg CHIEF
Name and Title

WALTERS VOL FIRE DEPT
Fire Department

507-294-3421 28 APR 08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _____ Yes - **Proceed to Question 2**

   _X_ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

_____

_____

_____

_____

_____

_____

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A					
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Scott Goodman Fire Chief
Name and Title

Wanamingo Fire dept
Fire Department

507 251 3331 6/2/08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Front of Fire Hall

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silv-ex	yes	2 gal	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Kenny Jensen Chief
Name and Title

Wanda Vol
Fire Department

507-430-1572 4-27-08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires ✓ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   ✓ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   we only use Foam on Fires

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Silv-ex	no	10 gal.	yes	Yes
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

DAVID P CAREY Chief
Name and Title

WARBA - Feeley - SAGO Fire Dept.
Fire Department

(218) 492-4392 6/4/08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _X_ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _A_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   221 West Johnson.

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	Angus Tridol CT	NO	0-5 gals	H
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silvex	Yes	0-5gal	C
Training Foam	Silvex	Yes	0-10	C
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Lonnie Stauffenecker Fire Chief
Name and Title

Warren Volunteer Fire Dept
Fire Department

218-745-5762 (Home)
Phone Number Date

Lstauff@frontiernet.net
E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires X 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons X 5 gallons → X 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Waseca County Fair Grand Stand Area

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein		X	10 gals	
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A		X	5 gals	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Gary M Conrad Waseca Fire Chief
Name and Title

Waseca Fire Dept
Fire Department

1.507.835.3210 5-12-08
Phone Number Date

garyc@ci.waseca.mn.us
E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _X_ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _X_ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _X_ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Last Training was in a farm yard 11225 Co. Rd 20

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	3M	NO	1 gal	current
Class B Alcohol-Resistant (AR)-AFFF	Angus	NO	1 gal	current
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Angus	NO	30 gal	current
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Hubie Widmer Fire Chief
Name and Title

Watertown Fire
Fire Department

952-955-~~2954~~ 1135 4-29-08
Phone Number Date

Watertownfire@frontiernet.net
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   ✓ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   ✓ Other (please specify): we don't use foam on trainings

5. How much foam is used per training event? 0

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silv-ex	no	about 20 gallons	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2006 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Walter Kramer — Chief
Name and Title

Watkins
Fire Department

320-764-2161 — 5-2-08
Phone Number — Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires X 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer X Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   WE DO NOT HAVE A SPECIFIC TRAINING AREA, JUST DIFFERENT HOUSES WE MIGHT TRAIN IN WHEN ONE IS DONATED TO THE FIRE DEPARTMENT

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	SILVEX	YES	<5 GALLONS	
Training Foam				
Other	3M LIGHT WATER 3%-6%	NO		

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

KEVIN KLAPPRICH CHIEF
Name and Title

WAYZATA
Fire Department

952 404 - 5338 4/29/08
Phone Number Date

KKLAPPRICH@WAYZATA.ORG
E-Mail Address

a member of Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _X_ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _X_ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   North East corner of Dugan St. South & Mill St.

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein	National Foam	Yes	5 gal.	Current
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Chris Borchardt Training officer Welcome fire dept.
Name and Title

Welcome fire
Fire Department

(507) 728-8892 5-25-08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): TYPICALLY WE USE TRAINING FOAM

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons X 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   X Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   4251 XYLON AVE N.

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	ANSUL	N	< 20 GAL	CURRENT
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	ANSUL	N	< 20 GAL	CURRENT
Training Foam	VARIOUS	Y		
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

SCOTT CRANDALL, FIRE CHIEF
Name and Title

WEST METRO FIRE- RESCUE DISTRICT
Fire Department

763-537-2323 4-28-08
Phone Number Date

SCRANDALL@WESTMETROFIRE.COM
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   X Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   X Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer X On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   City Dump Grounds 100 7th Ave N Wheaton MN 56296

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silvex			
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Michael W Fox Chief
Name and Title

Wheaton
Fire Department

320-563-8209 4-28-08
Phone Number Date

E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _X_ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _X_ Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _X_ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _X_ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   9th St / White Bear Parkway

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	ANGUS	NO		
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	ANGUS	YES	5-10GAL	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

PAUL PELTIER DIST CHIEF
Name and Title

WHITE BEAR LAKE
Fire Department

651-275-2588 5/5/08
Phone Number Date

PPELTIER@WHITEBEARLAKE.ORG
E-Mail Address

Inogen
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _X_ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _X_ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _X_ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   212 Main St,
   Williams MN 56686

OVER→

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	Silvex	X	20 gal		
Class B Alcohol-Resistant (AR)-AFFF	NA				
Class B Protein	NA				
Class B Fluoroprotein (FP)	NA				
Class B Film-Forming Fluoroprotein (FFFP)	NA				
Class B AR-FFFP	NA				
Class A-B Hi Expansion Foam	NA				
Class A	NA				
Training Foam	NA				
Other	NA				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Mike Baldwin Fire Chief
Name and Title

Williams Fire Dept
Fire Department

218-783-[redacted] 1601 5/27/08
Phone Number Date

williamsfiredept@wiktel.com
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   \ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   X 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   X Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Willmar Fire Dept. 515 S.W. 2nd ST Willmar

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	3M	NO	0	
Class B Alcohol-Resistant (AR)-AFFF	3M	NO	0	
Class B Protein	—	—	—	
Class B Fluoroprotein (FP)	—	—	—	
Class B Film-Forming Fluoroprotein (FFFP)	—	—	—	
Class B AR-FFFP	—	—	—	
Class A-B Hi Expansion Foam	—	—	—	
Class A	Angus Hi-combat	YES	40 Gals	Current use
Training Foam	—	—	—	
Other	—	—	—	

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Rick Johnson Maintenance
Name and Title

Willmar Fire Dept.
Fire Department

320-235-1354 5-7-08
Phone Number Date

rjohnson@ci.willmar.mn.us
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires X 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   X No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   X Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Silv-ex	Yes	Less 5gal	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jeremy Schossow Chief
Name and Title

Wilson Fire
Fire Department

Phone Number

5-6-08
Date

E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _X_ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Various locations - Central Fire Station 451 E. 3rd & Technical College 1250 Homer Rd Winona, MN 55987

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	ANSULITE ARC	YES	9ea 5gal, pails	CURRENT
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	SILV-EX ANSUL	NO	1ea 5gal pail	CURRENT
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

ED KRALL Fire Chief
Name and Title

WINONA Fire Dept
Fire Department

507-457-8266 4-30-08
Phone Number Date

EKRALL@ci.WINONA.MN.US
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?
   - X Yes - **Proceed to Question 2**
   - _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?
   - _____ 0-25% of fires
   - X 25-50% of fires
   - _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?
   - X Yes
   - X No

4. How often is foam used in training exercises?
   - _____ Weekly
   - _____ Monthly
   - _____ Quarterly
   - _____ Semi-Annually
   - _____ Annually
   - X Bi-Annually
   - _____ Other (please specify): _____

5. How much foam is used per training event?
   - X Less than 5 gallons
   - _____ 5 gallons
   - _____ 5 to 10 gallons
   - _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?
   - _____ Storm Sewer
   - _____ Sanitary Sewer
   - _____ On-Site Septic
   - X Ground
   - _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   BAKER AVENUE AND 2ND STREET SOUTH
   CITY OF WINSTED.

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	ANGUS HICOMBAT A	NO	5 GAL	FIRE SUPPRESSION
Training Foam				
Other	AQUA ECO - STICKS	YES	1 SMALL STICK 2.89 oz.	TRAINING / GRASS FIRES

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Chad Stender 1ST ASSISTANT CHIEF.
Name and Title

WINSTED FIRE
Fire Department

320-485-2316 5/4/08
Phone Number Date

Fire chief @ Winsted. mn. us.
E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _X_ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   233 N Manning Ave. Lake Mills MN

   235 W Johnson St Lake Mills MN

a member of Inogen Environmental Alliance

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)		NO	0	
Class B Alcohol-Resistant (AR)-AFFF		NO	0	
Class B Protein		NO	0	
Class B Fluoroprotein (FP)		NO	0	
Class B Film-Forming Fluoroprotein (FFFP)		NO	0	
Class B AR-FFFP		NO	0	
Class A-B Hi Expansion Foam		NO	0	
Class A	SILV-EX ANSUL	YES.	25 gal	Both.
Training Foam		NO	0	
Other		NO	0.	

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

CORY YLITALO. ASST FIRE CHIEF
Name and Title

WOLF LAKE FIRE DEPT.
Fire Department

(218) 538-6760 5-6-08.
Phone Number Date

WL FIRE DEPT @ WCTA.NET.
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

a member of: Inogen Environmental Alliance

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Chemguard	yes	5gal	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Nick Rhonda Chief
Name and Title

Wrenshall Fire Dept
Fire Department

218- 384- 4670 4-28-08
Phone Number Date

wrenshallfire@aol.com
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires _X_ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _X_ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): Not used

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

OVER→

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Silv-ex	NO	50 gal		50 gal/year
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Dennis Berry Fire Chief
Name and Title

Wyoming Fire Department
Fire Department

651-462-0579
Phone Number Date

Chiefberry@wyomingmn.org
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _X_ Other (please specify): 0

5. How much foam is used per training event? 0

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _X_ Other (please describe): Do not use foam for Training

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	Alcoseal 3% Angus		20 gallons	
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Chemguard		5 gallon in last 3 years	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Ryan Maloney Fire Chief
Name and Title

Zimmerman Livonia fire Dept
Fire Department

763-856-2280 5-8-08
Phone Number Date

Zimmermanfd@Sherbtel.net
E-Mail Address

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5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   ✓ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires ✓ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   ✓ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   ✓ Other (please specify): VERY LITTLE BECAUSE OF COST

5. How much foam is used per training event?

   ✓ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   ✓ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic NW Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   WE REALLY DONT USE FOAM WHEN TRAINING BECAUSE OF COST OF PRODUCT WHEN WE DID IT WAS WHEN WE FIRST GOT IT TO SEE WHAT LOOKED LIKE AND IT ~~WENT~~ WENT DOWN SEWER DRAIN IN CITY OF ZUMBRO FALLS IN FRONT OF FIRE HALL.

a member of: Inogen Environmental Alliance

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	3M	NO	Ø	CAR FIRES (USED TO)
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam	F-500	NO	Ø	ANYTHING BUT CAR & STRUCTURE JUST GOT STRUCTURE FIRES
Class A	SILV-EX	NO	15 TO 20 GALS	
Training Foam				
Other	SOLID CLASS A FIRE FIGHTING MINI FOAM STIK	NO	Ø	JUST GOT WILL BE USE FOR GRASS FIRES

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

DAN PREBIE CHIEF
Name and Title

ZUMBRO FALLS FIRE DEPT.
Fire Department

507-753-2423 4-29-08
Phone Number Date

ZFFD@EARTHLINK.NET
E-Mail Address

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires X 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   X Yes

   _____ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly X Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   BEMIDJI FIRE STATION 1500 JEFFERSON DRIVE, ZUMBROTA, MN.

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	SILV-EX	YES	30-40 GAL	
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

RONALD C. HORSMAN ASST. CHIEF ZFD
Name and Title

ZUMBROTA VOLUNTEER FIRE DEPT.
Fire Department

507-732-7527 4/28/08
Phone Number Date

rchorsman@aol.com
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

APPENDIX D

Questionnaires from Airport Fire Departments

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department use Class A and/or Class B firefighting foams for firefighting operations?

   _____ Class A only xx_____ Class B only _____ Both Class A and Class B

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _____ 25-50% of fires XX_____ 75-100% of fires

3. What type of foam does your Department use for training exercises operations?

   _____ Class A only _____ Class B only _____ Both Class A and Class B

   _____ Training foam xx_____ No foam is used in training (**If none, please skip to Question 8)**

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Currently, there is an on-going site investigation (SI) for perfluorinated compounds at our previous fire training site. The SI is being coordinated through the MPCA's Duluth office. The MPCA's point of contact for the SI is Ms. Jane Mosel (218) 529-6250.

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	3M, Chemguard	No	0-100 gal.	Firefighting
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008.

Questionnaire completed by:

John Farnham – Senior Airfield Firefighter
Name and Title

148TH Mn. A.N.G. Duluth Mn.
Fire Department

(218) 788-7434 — 26 May 08
Phone Number — Date

E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _X_ 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

FAA Inspector requires short burst of foam during annual test.

5. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _X_ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

Required annual training for individual Fire Fighters occurs at training facility in Duluth. During mandatory FAA testing, site is determined randomly by inspector. But is normally on one of the runways. They require a short burst of foam to ensure operator and truck is functioning correctly.

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	Chemguard	Yes see question #4	less than 5 gal.	Current
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Kurt G. Claussen Asst. Airport Mgr.
Name and Title

Rochester Airport Fire Dept.
Fire Department

507-282-2328 Ext. 102
Phone Number Date

claussen@rochesterintlairport.com 5/7/08
E-Mail Address

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5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department use Class A and/or Class B firefighting foams for firefighting operations?

   _____ Class A only _____ Class B only __X__ Both Class A and Class B

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires __X__ 25-50% of fires _____ 75-100% of fires

3. What type of foam does your Department use for training exercises operations?

   _____ Class A only __X__ Class B only _____ Both Class A and Class B

   _____ Training foam _____ No foam is used in training (**If none, please skip to Question 8)**

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly __X__ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons __X__ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go?

   _____ Storm Sewer __X__ Sanitary Sewer _____ On-Site Septic _____ Ground

   __X__ Other (please describe):

   Training has been conducted on plugged a concrete area which is then pumped out, removed from site, discharged to *sanitary sewer system off site* by a licensed contractor.

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   On airport. Training conducted on concrete areas; Humphrey remote ramp or a deice pad with covered or plugged drains.

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	**Ansul 3%**	**Yes**	**200-250 gallons**	**Both**
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein	**Unknown**	**Unknown**	**Unknown**	**Historic (1960s/1970s) - Military**
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	**1% Lorcon**	**No**	**5 gallons**	**current**
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008.

Questionnaire completed by:

Toni J. Howell MAC Manager/Environmental Affairs
Name and Title

Metropolitan Airports Commission Fire Department (at MSP)
Fire Department

612-726-8100 — 02 May 08
Phone Number — Date

thowell@mspmac.org
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

Nancy Rodning

From: Howell, Toni [THowell@mspmac.org]
Sent: Monday, May 05, 2008 9:25 AM
To: Nancy Rodning
Subject: RE: Firefighting Foam Questionnaire

Ms. Rodning - Please find attached the completed firefighting foam questionnaire from the MAC/MSP Fire Department. Per your inquiry, the Reliever airports do not have their own fire departments but instead receive fire protection from the surrounding communities (listed below).

Saint Paul Downtown Airport	City Of Saint Paul Fire Department
Airlake	City of Lakeville Fire Department
Anoka County	Blaine Spring Lake Park Mounds View Fire Department
Flying Cloud	Eden Prairie Fire Department
Crystal	West Metro Fire
Lake Elmo	Lake Elmo Fire Department

Please call or email if you have questions regarding this submittal or if I can be of further assistance in your efforts.

Toni J. Howell
Manager, Environmental Affairs
Metropolitan Airports Commission
phone: 612-726-5336

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Thank you.

From: Nancy Rodning [mailto:nrodning@deltaenv.com]
Sent: Tuesday, April 29, 2008 10:16 AM
To: thowell@mspmac.org
Subject: Firefighting Foam Questionnaire

Good morning Ms. Howell,

As we discussed last week, Delta Consultants is working with the Minnesota Pollution Control Agency on research into the use of firefighting foams in Minnesota. We've sent out questionnaires to municipal fire departments and training schools across the State to find out where and how much foams are being used. Attached is the questionnaire and a cover letter from the MPCA. I appreciate you and Chief Burke taking the time to complete the questionnaire.

I have not send questionnaires to the MAC reliever airports assuming that any fire training would be handled out of the MSP airport. If this is not so and it would be appropriate for me to send questionnaires to the reliever airport fire departments, please let me know. Otherwise I assume the MSP fire department is responsible for foam training with all of the MAC airport fire departments?

Please call me with any questions you may have about the questionnaire or this research.

Thank you.

Nancy Rodning
Project Geologist
DELTA CONSULTANTS
5910 Rice Creek Parkway, Suite 100
Shoreview, MN 55126
nrodning@deltaenv.com

5/14/2008

Nancy Rodning

From: Howell, Toni [THowell@mspmac.org]
Sent: Wednesday, June 11, 2008 9:55 AM
To: Nancy Rodning
Subject: RE: Firefighting foam questionnaire

Ms. Rodning - Yes, 3M foam was used at the airport in the past. Use of the 3M product was discontinued in the 2000-2001 timeframe. We now use Ansul 3%.
Please call if I can be of further assistance.
Toni J. Howell
Manager, Environmental Affairs
Metropolitan Airports Commission
phone: 612-726-5336

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From: Nancy Rodning [mailto:nrodning@deltaenv.com]
Sent: Monday, June 09, 2008 2:16 PM
To: thowell@mspmac.org
Subject: Firefighting foam questionnaire

Good afternoon Ms. Howell,

I am just finishing the Firefighting Foam Use in Minnesota report for the Minnesota Pollution Control Agency, and I have one more question for you-- Do you know if foam made by 3M was ever used at the airport?

Thank you.

Nancy Rodning
Project Geologist
DELTA CONSULTANTS
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Shoreview, MN 55126
nrodning@deltaenv.com
(651)697-5152 direct
(800)477-7411 toll free
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APPENDIX E

Questionnaires from Firefighting Training Schools

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

7. What type(s) and brand(s) of foam are currently or were historically used for training by the school? Please check all that apply.

Type of Foam	Brand/Manufacturer of Foam	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)			
Class B Alcohol-Resistant (AR)-AFFF			
Class B Protein			
Class B Fluoroprotein (FP)			
Class B Film-Forming Fluoroprotein (FFFP)			
Class B AR-FFFP			
Class A-B Hi Expansion Foam			
Class A			
Training Foam			
Other			

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152) or nrodning@deltaenv.com, or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666) or jim.stockinger@state.mn.us if you have any questions regarding this questionnaire.

Please return this form by June 6, 2008, to Nancy Rodning, Delta Consultants: nrodning@deltaenv.com

Questionnaire completed by:

Scott Schaefer Fire Training Coordinator
Name and Title

Alexandria Technical College
School Name

1-888-234-1313 Ext. 5274 6/13/2008
Phone Number Date

scottsc@alextech.edu
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does or has the school's firefighting training program include(d) practice with Class A or Class B foams, either now or in the past?

   X_____ Yes - **Please proceed to Question 2**

   _____ No - **Please sign the back of this form and return to Delta Consultants**

2. How often does the school train with Class A or Class B foam?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually X_____ Bi-Annually

   _____ Never _____ Other (please specify): _____

3. How much foam is used per training event?

   X_____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

4. Where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X_____ Ground

   _____ Containment system for off-site disposal

   _____ Other (please describe): _____

5. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   We seldom use foam for training. When we do it is generally used when conducting live burns and is used for exposure protection. When this happens, we use class A foam. These burns are not conducted at a set location, they are held at various locations. I would estimate that we use foam on a training burn approximately once every two years . We do not use foam for our interior attacks when training firefighters. The foam is provided by the Fire Department so the brand varies.

6. Do other fire departments utilize your facility for their training with foam?

   _____ Yes

   X_____ No

   -- **If yes,** do the other fire departments bring their own foam? _____ Yes _____ No

   -- **If yes,** approximately how much foam is discharged annually by other departments at your facility?

   _____ Less than 5 gallons _____ 5-25 gallons _____ 25 to 50 gallons

   _____ More than 50 gallons (please specify): _____

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

7. What type(s) and brand(s) of foam are currently or were historically used for training by the school? Please check all that apply.

Type of Foam	Brand/Manufacturer of Foam	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)			
Class B Alcohol-Resistant (AR)-AFFF			
Class B Protein			
Class B Fluoroprotein (FP)			
Class B Film-Forming Fluoroprotein (FFFP)			
Class B AR-FFFP			
Class A-B Hi Expansion Foam			
Class A	Angus	Less 5 gal	
Training Foam			
Other			

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152) or nrodning@deltaenv.com, or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666) or jim.stockinger@state.mn.us if you have any questions regarding this questionnaire.

Please return this form by June 6, 2008, to Nancy Rodning, Delta Consultants: nrodning@deltaenv.com

Questionnaire completed by:

Todd Seitz, Fire Training Coordinator
Name and Title

Hennepin Technical College
School Name

952-995-1327 6-4-08
Phone Number Date

Todd.seitz@hennepintech.edu
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does or has the school's firefighting training program include(d) practice with Class A or Class B foams, either now or in the past?

   X_____ Yes - **Please proceed to Question 2**

   _____ No - **Please sign the back of this form and return to Delta Consultants**

2. How often does the school train with Class A or Class B foam?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually X_____ Annually _____ Bi-Annually

   _____ Never _____Other (please specify): _____

3. How much foam is used per training event?

   X_____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

4. Where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X____ Ground

   _____ Containment system for off-site disposal

   _____ Other (please describe): _____

5. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Hennepin Technical College – 13100 College View Drive, Eden Prairie, MN 55347

6. Do other fire departments utilize your facility for their training with foam?

   _____ Yes

   X_____ No

   -- **If yes,** do the other fire departments bring their own foam? _____ Yes _____ No

   -- **If yes,** approximately how much foam is discharged annually by other departments at your facility?

   _____ Less than 5 gallons _____ 5-25 gallons _____ 25 to 50 gallons

   _____ More than 50 gallons (please specify): _____

a member of Inogen Environmental Alliance

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

7. What type(s) and brand(s) of foam are currently or were historically used for training by the school? Please check all that apply.

Type of Foam	Brand of Foam	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)			
Class B Alcohol-Resistant (AR)-AFFF			
Class B Protein			
Class B Fluoroprotein (FP)			
Class B Film-Forming Fluoroprotein (FFFP)			
Class B AR-FFFP			
Class A-B Hi Expansion Foam			
Class A			
Training Foam			
Other			

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152) or nrodning@deltaenv.com, or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666) or jim.stockinger@state.mn.us if you have any questions regarding this questionnaire.

Please return this form by May 9, 2008, to Nancy Rodning, Delta Consultants: nrodning@deltaenv.com

Questionnaire completed by:

MARTY CHRISTENSEN INSTRUCTOR
Name and Title

ITASCA COMMUNITY COLLEGE Grand Rapids
School Name

218 327 4580 5/5/08
Phone Number Date

mchristensen@itascacc.edu 218 2488266
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does or has the school's firefighting training program include(d) practice with Class A or Class B foams, either now or in the past?

   _____ Yes - **Please proceed to Question 2**

   _X_ No - **Please sign the back of this form and return to Delta Consultants**

2. How often does the school train with Class A or Class B foam?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

3. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

4. Where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Containment system for off-site disposal

   _____ Other (please describe): _____

5. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   _____

   _____

   _____

   _____

   _____

   _____

6. Do other fire departments utilize your facility for their training with foam?

   _____ Yes

   _____ No

   -- **If yes,** do the other fire departments bring their own foam? _____ Yes _____ No

   -- **If yes,** approximately how much foam is discharged annually by other departments at your facility?

   _____ Less than 5 gallons _____ 5-25 gallons _____ 25 to 50 gallons

   _____ More than 50 gallons (please specify): _____

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

7. What type(s) and brand(s) of foam are currently or were historically used for training by the school? Please check all that apply.

Type of Foam	Brand of Foam	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	3M	?	HISTORIC
Class B Alcohol-Resistant (AR)-AFFF	3M	?	HISTORIC
Class B Protein	3M	?	HISTORIC
Class B Fluoroprotein (FP)			
Class B Film-Forming Fluoroprotein (FFFP)			
Class B AR-FFFP			
Class A-B Hi Expansion Foam			
Class A	SILVEX	less than 5 gal	CURRENT
Training Foam	SIMU FOAM / KIDDE GROUP TRAINOL		CURRENT
Other			

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152) or nrodning@deltaenv.com, or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666) or jim.stockinger@state.mn.us if you have any questions regarding this questionnaire.

Please return this form by May 9, 2008, to Nancy Rodning, Delta Consultants: nrodning@deltaenv.com

Questionnaire completed by:

DAVID SARAZIN ACADEMIC SUPERVISOR
Name and Title

LAKE SUPERIOR COLLEGE ERTC
School Name

218 733-1077 05/01/08
Phone Number Date

dsarazin@lsc.edu
E-Mail Address

a member of: Inogen Environmental Alliance
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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does or has the school's firefighting training program include(d) practice with Class A or Class B foams, either now or in the past?

   _X_ Yes - **Please proceed to Question 2**

   _____ No - **Please sign the back of this form and return to Delta Consultants**

2. How often does the school train with Class A or Class B foam?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _X_ Annually _____ Bi-Annually

   _____ Other (please specify): _____

3. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

4. Where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Containment system for off-site disposal

   _X_ Other (please describe): ON-SITE TREATMENT FACILITY

5. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   11501 Hwy 23 DULUTH MN 55808

   WE USE LESS THAN 5 GALLONS OF CLASS A FOAM CONCENTRATE ON AN ANNUAL BASIS

   OUR CLASS B "FOAM" IS A SIMULATION PRODUCT — NOT ACTUAL FOAM CONCENTRATE (TRAINOL)

6. Do other fire departments utilize your facility for their training with foam?

   _X_ Yes — THE FD's USE OUR SIMU FOAM

   _____ No

   -- **If yes,** do the other fire departments bring their own foam? _____ Yes _X_ No

   -- **If yes,** approximately how much foam is discharged annually by other departments at your facility?

   _____ Less than 5 gallons _____ 5-25 gallons _____ 25 to 50 gallons

   _____ More than 50 gallons (please specify): _____

a member of: Inogen Environmental Alliance

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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

7. What type(s) and brand(s) of foam are currently or were historically used for training by the school? Please check all that apply.

Type of Foam	Brand of Foam	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)			
Class B Alcohol-Resistant (AR)-AFFF			
Class B Protein			
Class B Fluoroprotein (FP)			
Class B Film-Forming Fluoroprotein (FFFP)			
Class B AR-FFFP			
Class A-B Hi Expansion Foam			
Class A	Silvex	50-75 gal	< 50 gal
Training Foam			
Other			

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152) or nrodning@deltaenv.com, or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666) or jim.stockinger@state.mn.us if you have any questions regarding this questionnaire.

Please return this form by May 9, 2008, to Nancy Rodning, Delta Consultants: nrodning@deltaenv.com

Questionnaire completed by:

Steve Flaherty — Fire Program Mgr
Name and Title

Mesabi Range College
School Name

218-749-7770 — 5/8/08
Phone Number — Date

S-flaherty@mr.mnscu.edu
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does or has the school's firefighting training program include(d) practice with Class A or Class B foams, either now or in the past?

   ✓ Yes - **Please proceed to Question 2**

   _____ No - **Please sign the back of this form and return to Delta Consultants**

2. How often does the school train with Class A or Class B foam?

   _____ Weekly _____ Monthly ✓ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

3. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons ✓ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

4. Where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ✓ Ground

   _____ Containment system for off-site disposal

   _____ Other (please describe): _____

5. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Various fire department locations
   on-site

6. Do other fire departments utilize your facility for their training with foam?

   _____ Yes

   ✓ No

   -- **If yes,** do the other fire departments bring their own foam? _____ Yes _____ No

   -- **If yes,** approximately how much foam is discharged annually by other departments at your facility?

   _____ Less than 5 gallons _____ 5-25 gallons _____ 25 to 50 gallons

   _____ More than 50 gallons (please specify): _____

a member of: Inogen Environmental Alliance

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

7. What type(s) and brand(s) of foam are currently or were historically used for training by the school? Please check all that apply.

Type of Foam	Brand of Foam	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	3M + ANSULITE	10 GAL	BOTH
Class B Alcohol-Resistant (AR)-AFFF	ANSULITE	10 GAL	BOTH
Class B Protein	N/A		
Class B Fluoroprotein (FP)	N/A		
Class B Film-Forming Fluoroprotein (FFFP)	N/A		
Class B AR-FFFP	N/A		
Class A-B Hi Expansion Foam	N/A		
Class A	SILVEX	20 GALS	BOTH
Training Foam	UNKNOWN	15	BOTH
Other			

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152) or nrodning@deltaenv.com, or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666) or jim.stockinger@state.mn.us if you have any questions regarding this questionnaire.

Please return this form by May 9, 2008, to Nancy Rodning, Delta Consultants: nrodning@deltaenv.com

Questionnaire completed by:

DARYL BARTHOLOMAUS - TRAINING COORDINATOR
Name and Title

MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE
School Name
607 W. Main St., #100
Marshall

507-537-7051 5/5/08
Phone Number Date

daryl.bartholomaus@mnwest.edu
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does or has the school's firefighting training program include(d) practice with Class A or Class B foams, either now or in the past?

   X Yes - **Please proceed to Question 2**

   _____ No - **Please sign the back of this form and return to Delta Consultants**

2. How often does the school train with Class A or Class B foam?

   _____ Weekly _____ Monthly X Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

3. How much foam is used per training event?

   ~~X~~ Less than 5 gallons ~~X~~ 5 gallons _____ 5 to 10 gallons

   X More than 10 gallons (please specify): 20-50 GALS.

4. Where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Containment system for off-site disposal

   _____ Other (please describe): _____

5. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   GRANITE FALLS FD - UNKNOWN LOCATION

   LUVERNE FD - " "

   JACKSON FD - " "

   LAKE WILSON FD - " "

   ~~X~~ MERIT CENTER - MARSHALL, MN - Some part of City of Marshall might - <5gal/quarter

6. Do other fire departments utilize your facility for their training with foam?

   X Yes

   _____ No

   -- **If yes,** do the other fire departments bring their own foam? X Yes _____ No

   -- **If yes,** approximately how much foam is discharged annually by other departments at your facility?

   _____ Less than 5 gallons X 5-25 gallons _____ 25 to 50 gallons

   _____ More than 50 gallons (please specify): _____

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

7. What type(s) and brand(s) of foam are currently or were historically used for training by the school? Please check all that apply.

Type of Foam	Brand/Manufacturer of Foam	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)			
Class B Alcohol-Resistant (AR)-AFFF			
Class B Protein			
Class B Fluoroprotein (FP)			
Class B Film-Forming Fluoroprotein (FFFP)			
Class B AR-FFFP			
Class A-B Hi Expansion Foam			
Class A	Dependent on What the department has	15 Gal	
Training Foam			
Other			

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152) or nrodning@deltaenv.com, or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666) or jim.stockinger@state.mn.us if you have any questions regarding this questionnaire.

Please return this form by June 6, 2008, to Nancy Rodning, Delta Consultants: nrodning@deltaenv.com

Questionnaire completed by:

Rick Besser, Fire and EMS Coordinator
Name and Title

Northland College
School Name

218-683-3726 6-6-08
Phone Number Date

Rick.besser@northlandcollege.edu
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does or has the school's firefighting training program include(d) practice with Class A or Class B foams, either now or in the past?

   Yes Yes - **Please proceed to Question 2**

   _____ No - **Please sign the back of this form and return to Delta Consultants**

2. How often does the school train with Class A or Class B foam?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually X Bi-Annually

   _____ Never _____ Other (please specify): _____

3. How much foam is used per training event?

   _____ Less than 5 gallons X 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

4. Where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Containment system for off-site disposal

   _____ Other (please describe): _____

5. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   We do a Foam Class as part of the FF I/II training classes we run. Over the past year we had classes in Mcintosh, Itasca, and Red Lake Falls Minnesota.

6. Do other fire departments utilize your facility for their training with foam?

   _____ Yes

   X No

   -- **If yes,** do the other fire departments bring their own foam? _____ Yes _____ No

   -- **If yes,** approximately how much foam is discharged annually by other departments at your facility?

   _____ Less than 5 gallons _____ 5-25 gallons _____ 25 to 50 gallons

   _____ More than 50 gallons (please specify): _____

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

7. What type(s) and brand(s) of foam are currently or were historically used for training by the school? Please check all that apply.

Type of Foam	Brand of Foam	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)			
Class B Alcohol-Resistant (AR)-AFFF			
Class B Protein			
Class B Fluoroprotein (FP)			
Class B Film-Forming Fluoroprotein (FFFP)			
Class B AR-FFFP			
Class A-B Hi Expansion Foam			
Class A	UNKNOWN - SUPPLIED BY FIRE DEPTS.	—	
Training Foam			
Other			

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152) or nrodning@deltaenv.com, or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666) or jim.stockinger@state.mn.us if you have any questions regarding this questionnaire.

Please return this form by May 9, 2008, to Nancy Rodning, Delta Consultants: nrodning@deltaenv.com

Questionnaire completed by:

MICHAEL ANDERSON — FIRE PROGRAM MANAGER

Name and Title

PINE TECHNICAL COLLEGE

School Name

320-629-5184 — 5/1/08

Phone Number — Date

ANDERSONM @ PINETECH.EDU

E-Mail Address

a member of: Inogen Environmental Alliance

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does or has the school's firefighting training program include(d) practice with Class A or Class B foams, either now or in the past?

   _X_ Yes - **Please proceed to Question 2**

   _____ No - **Please sign the back of this form and return to Delta Consultants**

2. How often does the school train with Class A or Class B foam?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): WHEN REQUESTED —

3. How much foam is used per training event?

   _X_ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

4. Where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Containment system for off-site disposal

   _____ Other (please describe): _____

5. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   USED AT HOUSE BURNS - DON'T HAVE LOCATIONS AVAILABLE NOW.

6. Do other fire departments utilize your facility for their training with foam?

   _____ Yes

   _X_ No

   -- **If yes,** do the other fire departments bring their own foam? _____ Yes _____ No

   -- **If yes,** approximately how much foam is discharged annually by other departments at your facility?

   _____ Less than 5 gallons _____ 5-25 gallons _____ 25 to 50 gallons

   _____ More than 50 gallons (please specify): _____

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

7. What type(s) and brand(s) of foam are currently or were historically used for training by the school? Please check all that apply.

Type of Foam	Brand of Foam	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)			
Class B Alcohol-Resistant (AR)-AFFF			
Class B Protein			
Class B Fluoroprotein (FP)			
Class B Film-Forming Fluoroprotein (FFFP)			
Class B AR-FFFP			
Class A-B Hi Expansion Foam			
Class A	Silven	10gal	10gal
Training Foam			
Other			

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152) or nrodning@deltaenv.com, or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666) or jim.stockinger@state.mn.us if you have any questions regarding this questionnaire.

Please return this form by May 9, 2008, to Nancy Rodning, Delta Consultants: nrodning@deltaenv.com

Questionnaire completed by:

Michael Roe Program Mgr FIRE
Name and Title

Ridgewater College Willmar, MN
School Name

320-222-6062 4-30-8
Phone Number Date

Mike.Roe@Ridgewater.EDU
E-Mail Address

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does or has the school's firefighting training program include(d) practice with Class A or Class B foams, either now or in the past?

   ✓ Yes - **Please proceed to Question 2**

   _____ No - **Please sign the back of this form and return to Delta Consultants**

2. How often does the school train with Class A or Class B foam?

   _____ Weekly _____ Monthly ✓ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

3. How much foam is used per training event?

   ✓ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

4. Where does the spent foam go?

   ✓ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic ✓ Ground

   _____ Containment system for off-site disposal

   _____ Other (please describe): _____

5. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Various Fire Departments in West Central MN (Litchfield FD) (Ortonville FD) (Princeton FD) (Morris FD)

6. Do other fire departments utilize your facility for their training with foam?

   _____ Yes

   ✓ No

   -- **If yes**, do the other fire departments bring their own foam? _____ Yes _____ No

   – **If yes**, approximately how much foam is discharged annually by other departments at your facility?

   _____ Less than 5 gallons _____ 5-25 gallons _____ 25 to 50 gallons

   _____ More than 50 gallons (please specify): _____

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

7. What type(s) and brand(s) of foam are currently or were historically used for training by the school? Please check all that apply.

Type of Foam	Brand of Foam	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)			
Class B Alcohol-Resistant (AR)-AFFF			
Class B Protein			
Class B Fluoroprotein (FP)			
Class B Film-Forming Fluoroprotein (FFFP)			
Class B AR-FFFP			
Class A-B Hi Expansion Foam			
Class A	?	LESS THAN 5 GAL.	
Training Foam	?	5-6 QUARTS	
Other			

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152) or nrodning@deltaenv.com, or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666) or jim.stockinger@state.mn.us if you have any questions regarding this questionnaire.

Please return this form by May 9, 2008, to Nancy Rodning, Delta Consultants: nrodning@deltaenv.com

Questionnaire completed by:

BRIAN STASKA - TRAINING COORDINATOR
Name and Title

RIVERLAND COMM. COLLEGE
School Name

507-433-0353 — 4-30-08
Phone Number — Date

bstaska@riverland.edu
E-Mail Address

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does or has the school's firefighting training program include(d) practice with Class A or Class B foams, either now or in the past?

   X Yes - **Please proceed to Question 2**

   _____ No - **Please sign the back of this form and return to Delta Consultants**

2. How often does the school train with Class A or Class B foam?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): 4-6 TIME A YEAR

3. How much foam is used per training event?

   X Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

4. Where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic X Ground

   _____ Containment system for off-site disposal

   _____ Other (please describe): _____

5. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   Have not trained with foam in many years.
   Only used Class A, 5gal or less. Don't
   recall foam type. Recent one train event
   in Preston MN

6. Do other fire departments utilize your facility for their training with foam?

   _____ Yes

   X No

   -- **If yes**, do the other fire departments bring their own foam? _____ Yes _____ No

   -- **If yes**, approximately how much foam is discharged annually by other departments at your facility?

   _____ Less than 5 gallons _____ 5-25 gallons _____ 25 to 50 gallons

   _____ More than 50 gallons (please specify): _____

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

7. What type(s) and brand(s) of foam are currently or were historically used for training by the school? Please check all that apply.

Type of Foam	Brand of Foam	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)	All	5gal Plus	yes
Class B Alcohol-Resistant (AR)-AFFF	All	5gal Plus	yes
Class B Protein	—	0	—
Class B Fluoroprotein (FP)	—	0	—
Class B Film-Forming Fluoroprotein (FFFP)	—	0	—
Class B AR-FFFP	—	0	—
Class A-B Hi Expansion Foam	—	0	—
Class A	All	10 plus	yes
Training Foam	Silvex	10 plus	yes
Other	—	0	—

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152) or nrodning@deltaenv.com, or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666) or jim.stockinger@state.mn.us if you have any questions regarding this questionnaire.

Please return this form by May 9, 2008, to Nancy Rodning, Delta Consultants: nrodning@deltaenv.com

Questionnaire completed by:

Tim Zehnder Fire+Rescue Program Manager
Name and Title

South Central College 1920 Lee Blvd N. Mankato 56003
School Name

507-389-7329 office 507-381-1390 Cell
Phone Number Date

Tim.Zehnder@southcentral.edu
E-Mail Address

a member of: Inogen Environmental Alliance
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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does or has the school's firefighting training program include(d) practice with Class A or Class B foams, either now or in the past?

   _X_ Yes - **Please proceed to Question 2**

   _____ No - **Please sign the back of this form and return to Delta Consultants**

2. How often does the school train with Class A or Class B foam?

   _____ Weekly _X_ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): _____

3. How much foam is used per training event?

   _____ Less than 5 gallons _X_ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

4. Where does the spent foam go?

   _X_ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _X_ Ground

   _____ Containment system for off-site disposal

   _____ Other (please describe): _____

5. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   I have No way in telling you this information.

6. Do other fire departments utilize your facility for their training with foam?

   _X_ Yes

   _____ No

   -- **If yes,** do the other fire departments bring their own foam? _X_ Yes _____ No

   -- **If yes,** approximately how much foam is discharged annually by other departments at your facility?

   _____ Less than 5 gallons _X_ 5-25 gallons _____ 25 to 50 gallons

   _____ More than 50 gallons (please specify): _____

a member of: Inogen Environmental Alliance

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 **www.deltaenv.com**

Nancy Rodning

From: Tim Zehnder [tim.zehnder@southcentral.edu]
Sent: Tuesday, May 20, 2008 9:30 AM
To: Nancy Rodning
Subject: RE: Firefighting Foam Questionnaire

The training takes place at the school and were ever the depts. request it, at their station or in a empty lot, etc

Thank You
Tim Zehnder
Program Manager
South Central College
507-389-7329 Office
507-381-1390 Cell
tim.zehnder@southcentral.edu

"343 NEVER FORGET"

From: Nancy Rodning [mailto:nrodning@deltaenv.com]
Sent: Monday, May 19, 2008 5:11 PM
To: Tim Zehnder
Subject: Firefighting Foam Questionnaire

Hello Mr. Zehnder,

Thank you for returning the Delta/MPCA firefighting foam questionnaire. Can you please give me some clarification as to where the training takes place? Do you train with foam at the school? or does the foam training take place at various local fire departments?

Thank you, any additional information would be helpful.

Nancy Rodning
Project Geologist
DELTA CONSULTANTS
5910 Rice Creek Parkway, Suite 100
Shoreview, MN 55126
nrodning@deltaenv.com
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(800)477-7411 toll free
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Confidentiality Notice: If you are not the intended recipient of this email, please delete it. Thank you.

APPENDIX F

Questionnaires from Oil Refineries and Camp Ripley

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back of this form and return to Delta Consultants**

2. How often is Class B or Class A foam used in response to fire calls?

   _____ 0-25% of fires _X_ 25-50% of fires _____ 75-100% of fires

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?

   _____ Yes

   _X_ No

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _X_ Other (please specify): None

5. How much foam is used per training event? N/A

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. In training, where does the spent foam go? N/A

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   _____ Other (please describe): _____

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   N/A

member of Inogen Environmental Alliance
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Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF				
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A	Fire-Trol Firefoam 103B	No	50 gals	10 gal for 2008 so far
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Tom Rothleutner Roads & Grounds Supervisor
Name and Title

Camp Ripley
Fire Department

(320) 632-7090 (320) 616-3098 4-30-08
Phone Number Date

Thomas.Rothleutner@mn.ngb.army.mil
E-Mail Address

Xinogen Pat Boore FFES Camp Ripley

5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

Post-it® Fax Note 7671	Date 5/6/08	# of pages ▶ 2
To Nancy Rodning	From Jim Stockyard	
Co./Dept. DELTA	Co. MPCA	
Phone #	Phone # 651-297-8666	
Fax # 651-639-9473	Fax #	

F

1. Does your Department use Class A and/or Class B firefighting foams for firefighting operations?
   _____ Class A only X Class B only _____ Both Class A and Class B

2. How often is Class B or Class A foam used in response to fire calls?
   _____ 0-25% of fires X 25-50% of fires _____ 75-100% of fires

3. What type of foam does your Department use for training exercises operations?
   _____ Class A only X Class B only _____ Both Class A and Class B
   _____ Training foam _____ No foam is used in training **(If none, please skip to Question 8)**

4. How often is foam used in training exercises?
   _____ Weekly _____ Monthly _____ Quarterly
   X Semi-Annually _____ Annually _____ Bi-Annually
   _____ Other (please specify): _____

5. How much foam is used per training event?
   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons
   X More than 10 gallons (please specify): 50-100 gal.

6. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.
   MARATHON PETROLEUM REFINERY FIRE TRAINING GROUNDS
   301 ST. PAUL PARK RD., ST. PAUL PARK MN.

7. In training, where does the spent foam go?
   _____ Storm Sewer _____ Sanitary Sewer X On-Site Septic X Ground
   _____ Other (please describe): _____

8. In fire responses at the refinery, where does the spent foam go?
   _____ Storm Sewer _____ Sanitary Sewer X On-Site Septic X Ground
   _____ Other (please describe): _____

member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

9. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)		YES		
Class B Alcohol-Resistant (AR)-AFFF	THUNDERSTORM	YES	250 GAL.	
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)				
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008.

Questionnaire completed by:

STEVE CRISP FIRE CHIEF
Name and Title

MARATHON PETROLEUM CORP.
Fire Department

651-458-6461 5-2-08
Phone Number Date

SLCRISP@MARATHONOIL.COM
E-Mail Address

a member of Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

Nancy Rodning

From: Crisp, Steven L. [slcrisp@marathonoil.com]
Sent: Wednesday, June 04, 2008 8:23 AM
To: Nancy Rodning
Subject: RE: Questions re. firefighting foams

From: Nancy Rodning [mailto:nrodning@deltaenv.com]
Sent: Tuesday, June 03, 2008 4:34 PM
To: Crisp, Steven L.
Subject: FW: Questions re. firefighting foams

Mr. Crisp:

I'm terribly sorry, I did receive the questionnaire you returned in May. I was wondering, do any other fire departments use your fire training grounds for training with foam? If so, do they bring their own foam? or would their foam use be included in your 250 gallon/year total annual use? It is in the total use, we don't use foam with all the outside agencies with the exception of displaying the capabilities from time to time.

Does the amount of foam you indicated you use annually (250 gallon/year) include that used for fire response? If not, how much foam would you estimate you use annually for fire response, on average? The 250 gallons is training only. The previous years use is sporadic (depending on emergencies), Jan. 5th we had a tank fire and utilized approximately 2000 gallons to extinguish. Prior to that we had another tank fire in 2004 that took 6500 gallons of foam to extinguish.

I assume the Thunderstorm AR-AFF foam is what you currently use. Do you recall, was fire foam manufactured by 3M ever used by your department? Yes we had used 3M's foam prior to the change out to Thunderstorm and that change over I believe was back in 2000.

Thank you for your time and information.

Nancy Rodning
Delta Consultants

-----Original Message-----
From: Nancy Rodning
Sent: Tuesday, June 03, 2008 3:33 PM
To: 'slcrisp@marathonpetroleum.com'
Subject: Questions re. firefighting foams

Good afternoon Mr. Crisp:

Delta Consultants is working with the Minnesota Pollution Control Agency on conducting research into the use of firefighting foams in Minnesota. Mr. Jim Stockinger at the MPCA gave me your contact information. Delta is gathering information from fire departments and training schools across the State so the MPCA can better understand how much, what kind, and where firefighting foam is being used in Minnesota.

Attached is an explanatory letter from the MPCA and a questionnaire regarding foam use at the refinery. It is Delta's understanding that the Flint Hills Refinery has their own fire department, and that fire training with foam is conducted at the refinery. Would you please complete the attached questionnaire and return it to me by Friday, June 6th?

I appreciate any information you can provide. If you have any questions, please call me at 651-697-5152. You can return the questionnaire to me via email or regular mail at my address below.

Thank you.

Nancy Rodning

6/9/2008

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

1. Does your Department use Class A and/or Class B firefighting foams for firefighting operations?

   _____ Class A only XXX Class B only _____ Both Class A and Class B

2. How often is Class B or Class A foam used in response to fire calls?

   XXX 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

3. What type of foam does your Department use for training exercises operations?

   _____ Class A only XXX Class B only _____ Both Class A and Class B

   _____ Training foam _____ No foam is used in training (**If none, please skip to Question 8)**

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   XXX Other (please specify): Approximately 20 – 25 times during the training season from April through November. This includes mutual aid fire training and training for St Paul and Minneapolis Trainees.

5. How much foam is used per training event?

   _____ Less than 5 gallons _____ 5 gallons XXX 5 to 10 gallons

   _____ More than 10 gallons (please specify): _____

6. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.

   1255 Clayton Blvd. Junction Hwys 52 & 55. At the fire training grounds in the SW corner of the Refinery.

   In training, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   XXX Other (please describe): To a lined holding area from which it is pumped to a sump, then to our Waste Water Treatment Facility.

7. In fire responses at the refinery, where does the spent foam go?

   _____ Storm Sewer _____ Sanitary Sewer _____ On-Site Septic _____ Ground

   XXX Other (please describe): Depending on the location of the fire/spill, some goes to the Waste Water Treatment Facility and other may go to soil.

a member of: Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and in training (if applicable)? Please check all that apply.

Type of Foam	Brand of Foam	Used in Training? Yes or No	Amount Used Annually	Current Use or Historic Use?
Class B Aqueous Film-Forming Foam (AFFF)				
Class B Alcohol-Resistant (AR)-AFFF	3M FC 600F 3M FC 602 3M ATC 3X3 3M FC 603 Thunderstorm FC 600A	FC 600F Yes No No No FC 600A Yes	Response only 0 0 0 300 gal for trng	Current for all
Class B Protein				
Class B Fluoroprotein (FP)				
Class B Film-Forming Fluoroprotein (FFFP)	Used many years ago.	Yes	Not Sure	Historic
Class B AR-FFFP				
Class A-B Hi Expansion Foam				
Class A				
Training Foam				
Other				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 or jim.stockinger@state.mn.us) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by May 9, 2008.

Questionnaire completed by:
Peter D. Herpst
Deputy Fire Chief
Name and Title

Flint Hills Resources, Pine Bend Refinery Fire Department
Fire Department

651-437-0643 — 6/2/08
Phone Number — Date

pete.herpst@fhr.com
E-Mail Address

Inogen Environmental Alliance
5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.7411 Fax: 651.639.9473 www.deltaenv.com

APPENDIX G

Individual Training Site Profiles

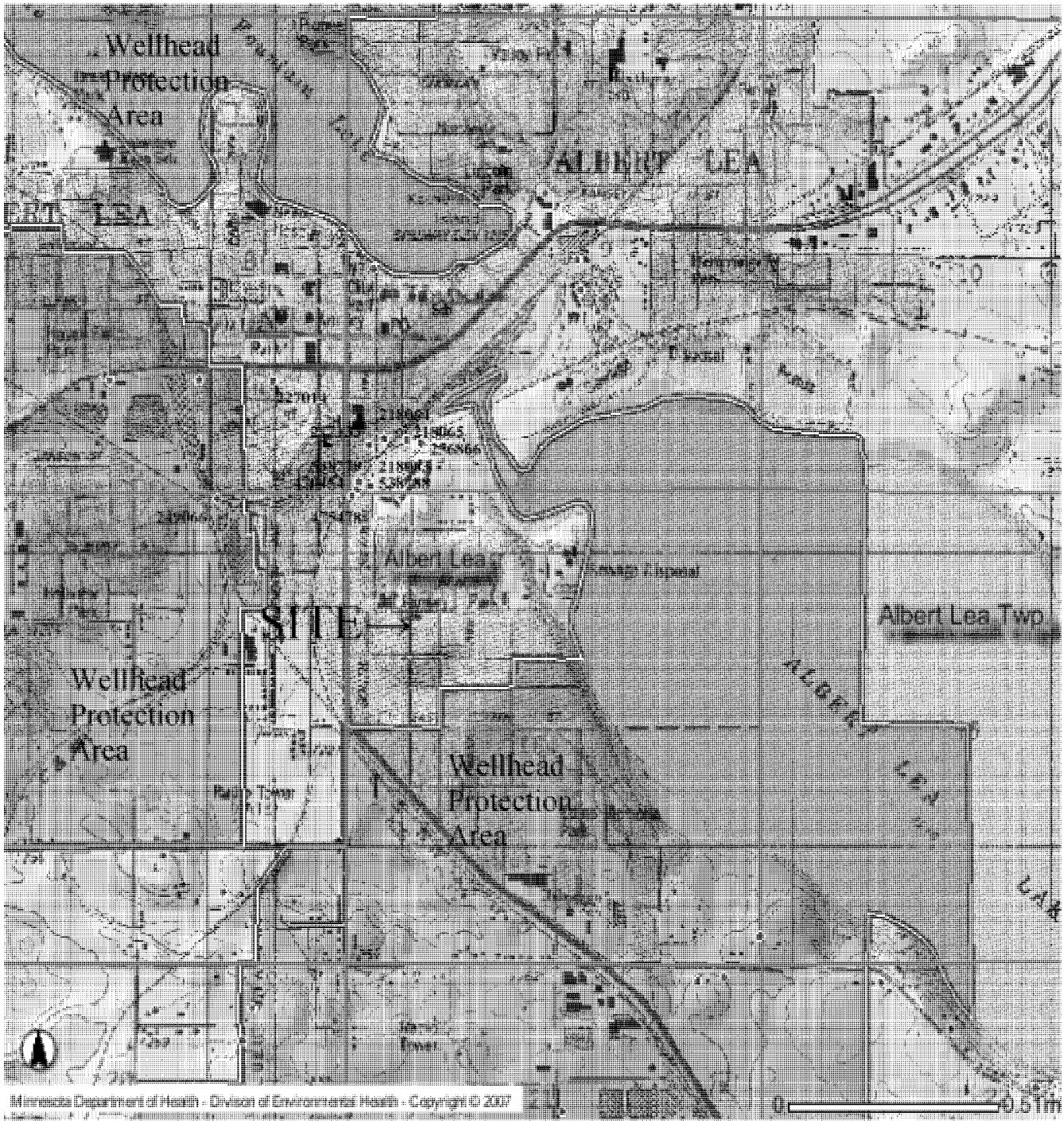
- Albert Lea
- Apple Valley
- Appleton
- Babbitt
- Bemidji
- Blackhoof
- Breckenridge
- Buffalo Lake
- Burnsville
- Buyck
- Cass Lake
- Claremont
- Cottage Grove
- Dunnell-Lake Fremont
- Ellsburg
- Evansville
- Fairmont
- Fridley
- Glenville
- Golden Valley
- Hamburg
- Hardwick
- Harmony
- Hibbing
- Hopkins
- Hoyt Lakes
- Hugo
- Hutchinson
- Linwood
- Lismore
- Littlefork
- Loretto
- Mankato
- Marshall
- Maynard
- Minneapolis
- Montevideo
- Myrtle
- New Richland
- Newfolden
- North St. Paul
- Northland
- Northrop
- Paynesville
- Pelican Rapids
- Pierz
- Pine River
- Porter
- Preston
- Rochester
- Silver Lake
- St. Clair
- St. Cloud
- St. Paul
- Tyler
- Upsala
- Waconia
- Waldorf
- Waseca
- Welcome
- Winona
- Winsted
- Duluth Airport
- MSP Airport
- Rochester Airport
- Lake Superior College Duluth
- South Central College North Mankato
- Flint Hills Pine Bend Refinery
- Marathon Refinery
- Former Wrenshall Refinery

SITE SUMMARY

Site Name:	Albert Lea
Fire Department:	Albert Lea Fire Department 221 E. Clark Street Albert Lea, MN 56007
Site Contact:	Fire Chief James Berg 507-377-4340 alfire@city.alberglea.org

Training Location:	Frank Avenue, near the dog pound
Type of foam used in training:	Ansulite AR-AFF
Foam training frequency:	Annually
Foam use per training event:	5 gallons
Spent foam destination:	Ground
Annual foam use:	AR-AFF - 15 to 20 gallons Class A - 40 gallons
Nearest surface water:	Albert Lea Lake located approximately 0.4 miles east
Nearest wetland:	Approximately 1/2 mile west-southwest
Karst Area:	Training site located in covered karst area
Nearest water well:	<1/4 mile north
Nearest Wellhead Protection Area:	<1/4 mile southeast
SITE RANKING:	**13**

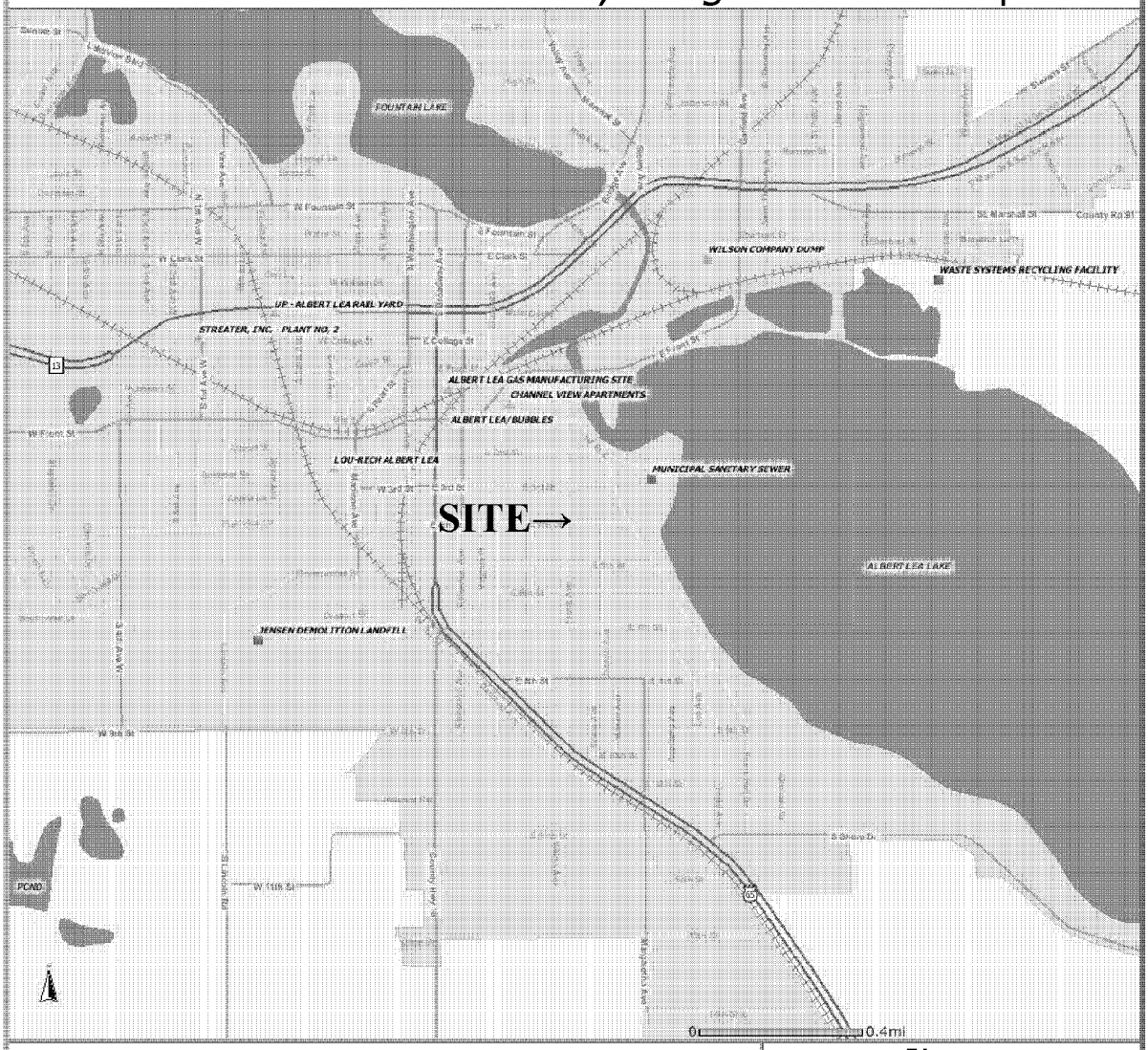
ALBERT LEA CWI Well Map



STATE_02821980

2222.1023

Albert Lea *What's In My Neighborhood* Map



Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

Minnesota Pollution Control Agency

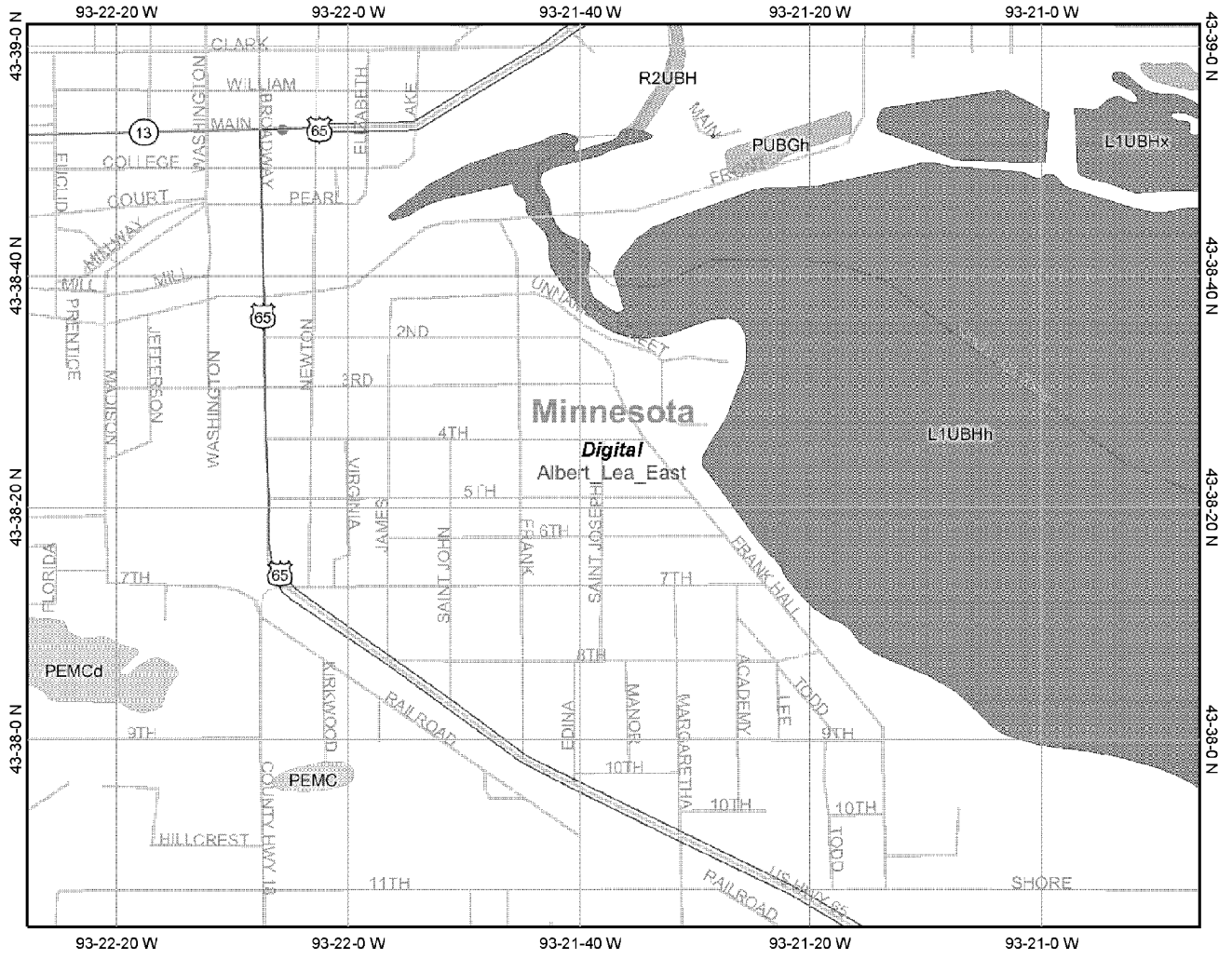
Sites

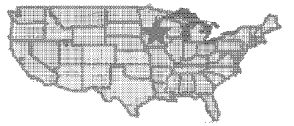
- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- HFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

STATE_02821981

2222.1024

Albert Lea Wetland Map





Legend

Ohio_wet_scan
- 0
- 1
- Out of range

Interstate

Major Roads
- Other Road
- Interstate
- State highway
- US highway

Roads

Cities

USGS Quad Index 24K

Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan

NHD Streams

Counties 100K

States 100K
- South America
- North America

Scale: 1:16,881

Map center: 43° 38' 23" N, 93° 21' 37" W

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

2222.1025

STATE_02821982

Minnesota Unique Well No.
470454

County Freeborn
Quad Albert Lea East
Quad ID 10A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 12/16/1992
Update Date 04/24/2008
Received Date

Well Name MW-4

Township	Range	Dir	Section	Subsections	Elevation Method	Elevation
102	21	W	9	CCCCCD	Calc from DEM (USGS 7.5 min or equiv.)	1219 ft.

Well Depth	Depth Completed	Date Well Completed
25 ft.	25 ft.	08/03/1990

Drilling Method Hollow Stem Auger

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☐ Yes ☑ No **Ahove/Below** 2.87 ft.

Casing Diameter	Weight	Hole Diameter
2 in. to 5 ft.	3.69 lbs./ft.	9.5 in. to 25 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	10	10	5 ft. and 15 ft.
2	10	10	15 ft. and 25 ft.

Static Water Level
6.4 ft. from Land surface Date Measured 08/06/1990

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
701 BROADWAY S
ALBERT LEA MN

Geological Material	Color	Hardness	From	To
TOPSOIL	BLACK	SOFT	0	2
SILT W/ CLAY	BLK/GRY	SOFT	2	5
CLAY	GRAY	SOFT	5	7
CLAY	GRAY	HARD	7	25

REMARKS
WELL SEALED 10-10-1994 BY 40174
ORIGINAL USE MW - MONITOR WELL

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Bentonite from 3 to 4 ft.
Grout Material: Neat Cement from to 3 ft.

Located Minnesota Department of Health
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification N/A **Date** 01/25/2006
System *UTM - Nad83, Zone15, Meters* **X:** 470309 **Y:** 4832422

Nearest Known Source of Contamination
70 feet S direction Tanks type
Well disinfected upon completion? ☐ Yes ☑ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Bay West Inc. 62573
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat No Record
Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **470454** | Printed 6/25/2008 HE-01205-07

STATE_02821983

2222.1026

Minnesota Unique Well No.
475478

County Freeborn
Quad Albert Lea East
Quad ID 10A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 12/16/1992
Update Date 04/25/2008
Received Date

Well Name RW-1
Township Range Dir Section Subsections Elevation 1219 **ft.**
102 21 W 16 BBBBBB **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
12 ft.	12 ft.	11/30/1991

Drilling Method Dug

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 2.5 **ft.**

Casing Diameter	Weight	Hole Diameter
6 in. to 5 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** WELCO **Type** plastic

Diameter	Slot/Gauze	Length	Set Between
4	10	7	5 ft. and 12 ft.

Static Water Level
6.4 ft. from Land surface Date Measured 12/11/1991

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
701 BROADWAY
ALBERT LEA MN

Geological Material	Color	Hardness	From	To
MED GRADED SAND	GRAY	SOFT	0	2
SILT	GRAY	SOFT	2	3
SANDY CLAY	GRAY	SOFT	3	6
CLAYEY SILT	BRN/GRY	SOFT	6	12

REMARKS
DATED AUGUST 27, 1991.
RW-1 RECOVERY TRENCH. M.D.H. CONSTRUCTION VARIANCE.
RAYMOND W. THRON.
WELL SEALED 11-05-1997 BY 00247
ORIGINAL USE RC - RECOVERY WELL
PUMP TYPE: PNEUMATIC

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: CONCRETE from to 2 ft.

Located Minnesota Department of Health **Method** Digitization (Screen) - Map (1:24,000)

Unique Number Verification N/A **Date** 01/25/2006

System *UTM - Nad83, Zone15, Meters* **X:** 470287 **Y:** 4832395

Nearest Known Source of Contamination
45 feet South East direction Volatile organic compounds type
Well disinfected upon completion? ☐ Yes ☑ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Q.E.D. Model number SOLO HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Other (see remarks) Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Bay West Inc. 62573 HUBBEL, J
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat No Record
Aquifer
Depth to Bedrock ft.

STATE_02821984

2222.1027

County Well Index Online Report	475478	Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.
538779

County Freeborn
Quad Albert Lea East
Quad ID 10A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/22/2003
Update Date 04/30/2008
Received Date

Well Name MW-21

Township	Range	Dir	Section	Subsections	Elevation	Elevation Method
102	21	W	9	CCCCCA	1219 ft.	Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
26 ft.	18 ft.	01/04/1994

Drilling Method Auger (non-specified)

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Monitor well

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☐ Yes ☑ No **Above/Below** ft.

Casing Diameter	Weight	Hole Diameter
2 in. to 8 ft.	3.65 lbs./ft.	8 in. to 24 ft.

Open Hole from ft. to ft.

Screen YES **Make** WIREWOUND **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	10	10	8 ft. and 18 ft.

Well Address
100 BROADWAY
ALBERT LEA MN

Geological Material	Color	Hardness	From	To
GRAVEL/SAND/FILL	BROWN	MEDIUM	0	8
SILTY CLAY	BRN/GRY	MEDIUM	8	26

Static Water Level
6.2 ft. from Land surface Date Measured 01/04/1994

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☑ Casing Protection Y ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Bentonite from to 4 ft. 1 bags

Located Minnesota Department of Health **Method** GPS SA Off (averaged)
Unique Number Verification N/A **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 470313 **Y:** 4832445

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☑ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Bergerson-Caswell 27058 HOLMEN, G.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat No Record
Aquifer
Depth to Bedrock ft.

County Well Index Online Report **538779** Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.
538788

County Freeborn
Quad Albert Lea East
Quad ID 10A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/22/2003
Update Date 04/01/2008
Received Date

Well Name

Township Range Dir Section Subsections Elevation 1219 **ft.**

102 21 W 9 CCCCDA **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth ft. **Depth Completed** ft. **Date Well Completed**

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter	Weight	Hole Diameter

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
NO RECORD			0	0

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Department of Health **Method** GPS SA Off (averaged)

Unique Number Verification N/A **Date** N/A

System *UTM - Nad83, Zone15, Meters* **X:** 470356 **Y:** 4832432

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

STATE_02821987

First Bedrock **Last Strat** No Record	**Aquifer** **Depth to Bedrock ft.**	**Well Contractor Certification** License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	**538788**	Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.
217133

County Freeborn
Quad
Quad ID 10

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/08/1988
Update Date 12/21/2005
Received Date

Well Name INTERSTATE POWER CO NO.
Township Range Dir Section Subsections Elevation 1225 **ft.**
102 21 W 9 CCCBB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
1040 **ft.**	1040 **ft.**	00/00/1938

Drilling Method --

Geological Material	Color	Hardness	From	To
UNCLASSIFIED DRIFT			0	89
LIMESTONE	LT. BRN		89	184
DOLOMITE	TAN		184	310
LIMESTONE	GRAY		310	450
SHALE	GRY/GRN		450	510
SHALE & LIMESTONE			510	515
LIMESTONE	GRAY		515	545
SANDSTONE & SHALE	LT. GRN		545	555
SANDSTONE	WHITE		555	665
LIMESTONE	GRY/TAN		665	940
SANDSTONE	WHITE		940	1040

Drilling Fluid --
Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/ Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter

Open Hole from ft. to 1040 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
AQUIFER UNKNOWN, NO CASING RECORD MGS NO. 39.
WELL SEALED 10-23-1990 BY 27058.
ORIGINAL USE CO - COMMERCIAL.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number
Verification Information from owner
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 470351 **Y:** 4832569

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Cuttings Yes
First Bedrock Cedar Valley Group
Last Strat Jordan
Aquifer St.Peter-Prairie Du Chien
Depth to Bedrock 89 **ft.**

Well Contractor Certification
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report | **217133** | Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.
218063

County Freeborn
Quad
Quad ID 10

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/08/1988
Update Date 08/01/2000
Received Date

Well Name INTERSTATE POWER CO. NO.
Township Range Dir Section Subsections Elevation 1225 **ft.**
102 21 W 9 CCCCC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
288 ft.	288 ft.	

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Commercial

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter	Weight	Hole Diameter

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
DRIFT			0	90
LIMESTONE			90	288

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
CASING: 016 TO 0134;010 TO 0730.
CASING: 016 TO 0134;010 TO 0730;
LOG INFERRED FROM NEARBY WELL

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 470355 **Y:** 4832445

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification

First Bedrock Cedar Valley-Galena
Last Strat Cedar Valley-Galena
Aquifer
Depth to Bedrock 90 **ft.**

License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report | **218063** | Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.
218064

County Freeborn
Quad
Quad ID 10

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/08/1988
Update Date 08/01/2000
Received Date

Well Name INTERSTATE POWER CO. NO.
Township Range Dir Section Subsections Elevation 1225 **ft.**
102 21 W 9 CCCAC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
554 **ft.**	554 **ft.**	09/00/1927

Drilling Method --

Geological Material	Color	Hardness	From	To
DRIFT			0	90
LIMESTONE			90	450
SHALE			450	500
LIMESTONE & SHALE & SANDSTONE			500	554

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Commercial

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter **Weight** **Hole Diameter**

Open Hole from ft. to ft.

Screen **Make** **Type**
Diameter **Slot/Gauze** **Length** **Set Between**

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
AQUIFER UNCERTAIN, LOG INFERRED FROM OFFSET WELL
CASING: 016 TO 0134;010 TO 0730.
CASING: 016 TO 0134;010 TO 0730;

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 470410 **Y:** 4832592

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Cedar Valley-Galena
Last Strat Platteville-St.Peter
Aquifer
Depth to Bedrock 90 **ft.**

County Well Index Online Report | **218064** | Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.
218065

County Freeborn
Quad
Quad ID 10

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/08/1988
Update Date 08/01/2000
Received Date

Well Name INTERSTATE POWER CO NO.
Township Range Dir Section Subsections Elevation 1220 **ft.**
102 21 W 9 CCDBC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
585 ft.	585 ft.	00/00/1950

Drilling Method --

Geological Material	Color	Hardness	From	To
DRIFT			0	90
LIMESTONE			90	450
SHALE			450	500
LIMESTONE & SHALE & SANDSTONE			500	585

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Commercial

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter	Weight	Hole Diameter

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
CASING: 016 TO 0134;010 TO 0730.
CASING: 016 TO 0134;010 TO 0730;
HOLE WAS PLUGGED BACK TO 308 FT., LOG INFERRED FROM OFFSET LOG

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 470500 **Y:** 4832587

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Cedar Valley-Galena
Last Strat Platteville-St.Peter
Aquifer Galena
Depth to Bedrock 90 **ft.**

County Well Index Online Report | **218065** | Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.
227014

County Freeborn
Quad
Quad ID 10

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/08/1988
Update Date 11/28/2007
Received Date

Well Name ALBERT LEA

Township	Range	Dir	Section	Subsections	Elevation
102	21	W	8	DCBAD	1239 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
300 ft.	300 ft.	00/00/1889

Drilling Method --

Geological Material	Color	Hardness	From	To
DRIFT GRAVEL			0	80
SAND & GRAVEL			80	95
SAND			95	105
GRAVEL & SAND			105	112
SAND			112	113
SAND			113	114
LIMESTONE & SAND			114	115
SAND			115	130
LIMESTONE			130	143
SHALE			143	155
SHALE			155	160
SHALE			160	213
SHALE	WHITE		213	220
LIMESTONE			220	234
SAND	WHITE		234	236
SAND	WHITE		236	240
LIMESTONE			240	300

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/ Below** **ft.**

Casing Diameter **Weight** **Hole Diameter**

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter **Slot/Gauze** **Length** **Set Between**

Static Water Level
22 ft. from Land surface Date Measured 1985

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
LOCATED BY CITY MAN
UNUSED.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number
Verification Other, note in remarks
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 469980 **Y:** 4832787

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Cuttings Yes **Borehole Geophysics** Yes
First Bedrock Cedar Valley Group **Aquifer**
Last Strat Dubuque-Galena **Depth to Bedrock** 130 **ft.**

Well Contractor Certification
SWANSON
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report

227014

Printed 6/25/2008
HE-01205-07

Minnesota Unique Well No.
249066

County Freeborn
Quad Albert Lea East
Quad ID 10A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 02/02/1994
Update Date 11/28/2007
Received Date

Well Name FREEBORN FOODS
Township Range Dir Section Subsections Elevation 1222 **ft.**
102 21 W 17 ABABAA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
218 ft.	218 ft.	1936

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Industrial

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** ft.

Casing Diameter	Weight	Hole Diameter
8 in. to 218 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
BOX 1186
ALBERT LEA MN 56007

Geological Material	Color	Hardness	From	To
NO RECORD			0	218

Static Water Level
22 ft. from Land surface Date Measured 1983

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification N/A **Date** 02/25/2001
System *UTM - Nad83, Zone15, Meters*
X: 469764 **Y:** 4832388

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

First Bedrock
Last Strat
Aquifer
Depth to Bedrock ft.

Well Contractor Certification
Minnesota Dept. of Natural Resources | MNDNR | CUMMINGS
License Business Name | Lic. Or Reg. No. | Name of Driller

County Well Index Online Report | **249066** | Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.
256866

County Freeborn
Quad Albert Lea East
Quad ID 10A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 12/21/2005
Update Date 11/28/2007
Received Date

Well Name INTERSTATE POWER CO.
Township Range Dir Section Subsections Elevation 1217 **ft.**
102 21 W 9 CCDBAD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
387 ft.	387 ft.	

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
20 in. to ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
-1 ft. from Top of casing extension Date Measured 12/21/2005

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
GARFIELD AV
ALBERT LEA MN 56007

Geological Material	Color	Hardness	From	To
GLACIAL DRIFT			0	92
LOWER CEDAR VALLEY FORMATION			92	205
MAQUOKETA FORMATION			205	273
DUBUQUE FORMATION			273	301
GALENA FORMATION			301	387

REMARKS
TOP OF CASING IS ABOUT 6 FT. BELOW GRADE IN A BASEMENT TYPE PUMPHOUSE.
WELL FLOWS.
GAMMA LOGGED 12-21-2005.
OBSTRUCTION AT 389 FEET.

Grouting Information Well Grouted? ☐ Yes ☐ No

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Information from owner
Date 12/21/2005
System *UTM - Nad83, Zone15, Meters*
X: 470553 **Y:** 4832576

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Borehole Geophysics Yes
First Bedrock Lower Cedar Valley
Last Strat Galena
Aquifer
Depth to Bedrock 92 **ft.**

Well Contractor Certification
Minnesota Geological Survey MGS
License Business Name Lic. Or Reg. No. Name of Driller

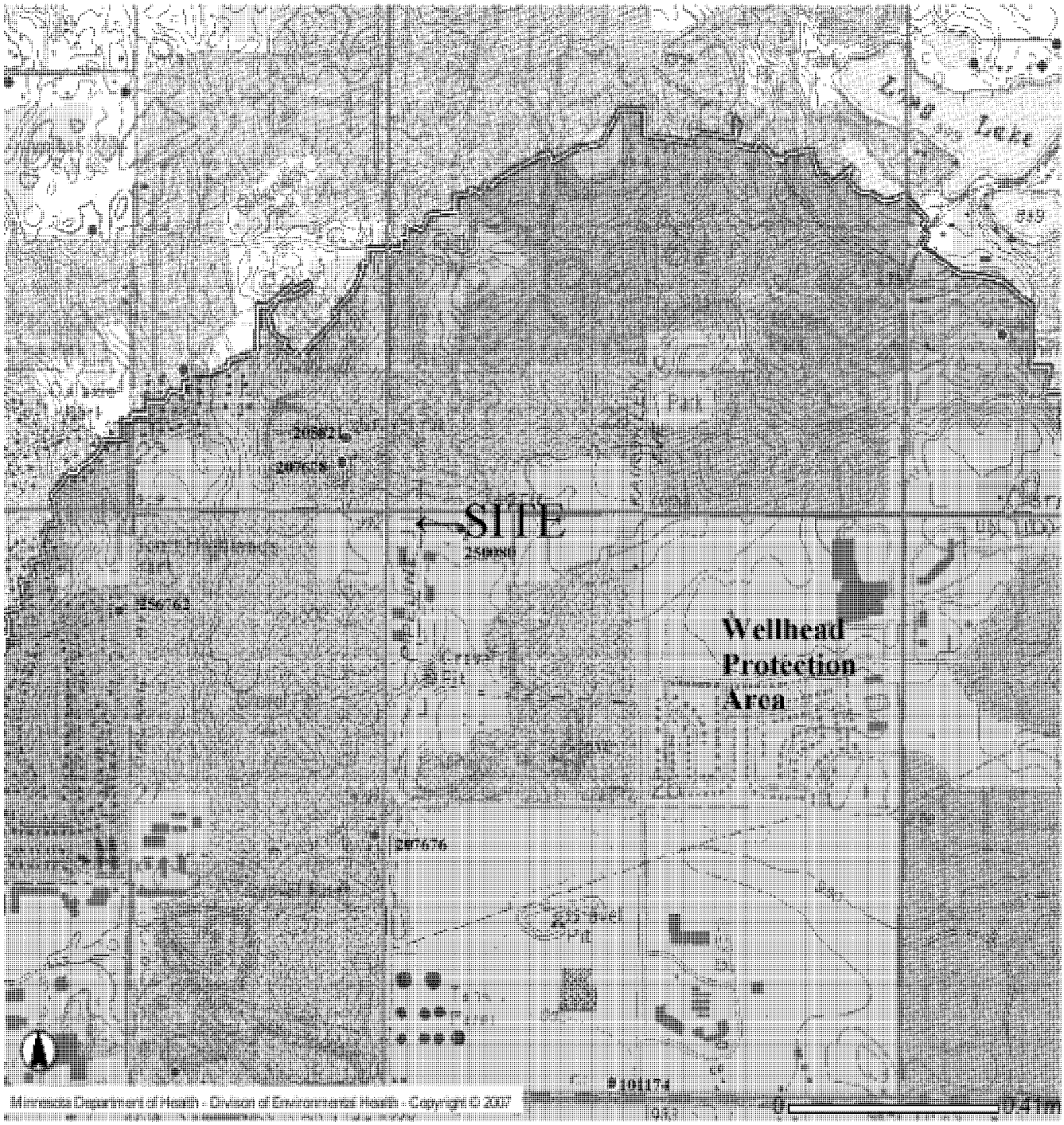
County Well Index Online Report **256866** Printed 6/25/2008 HE-01205-07

SITE SUMMARY

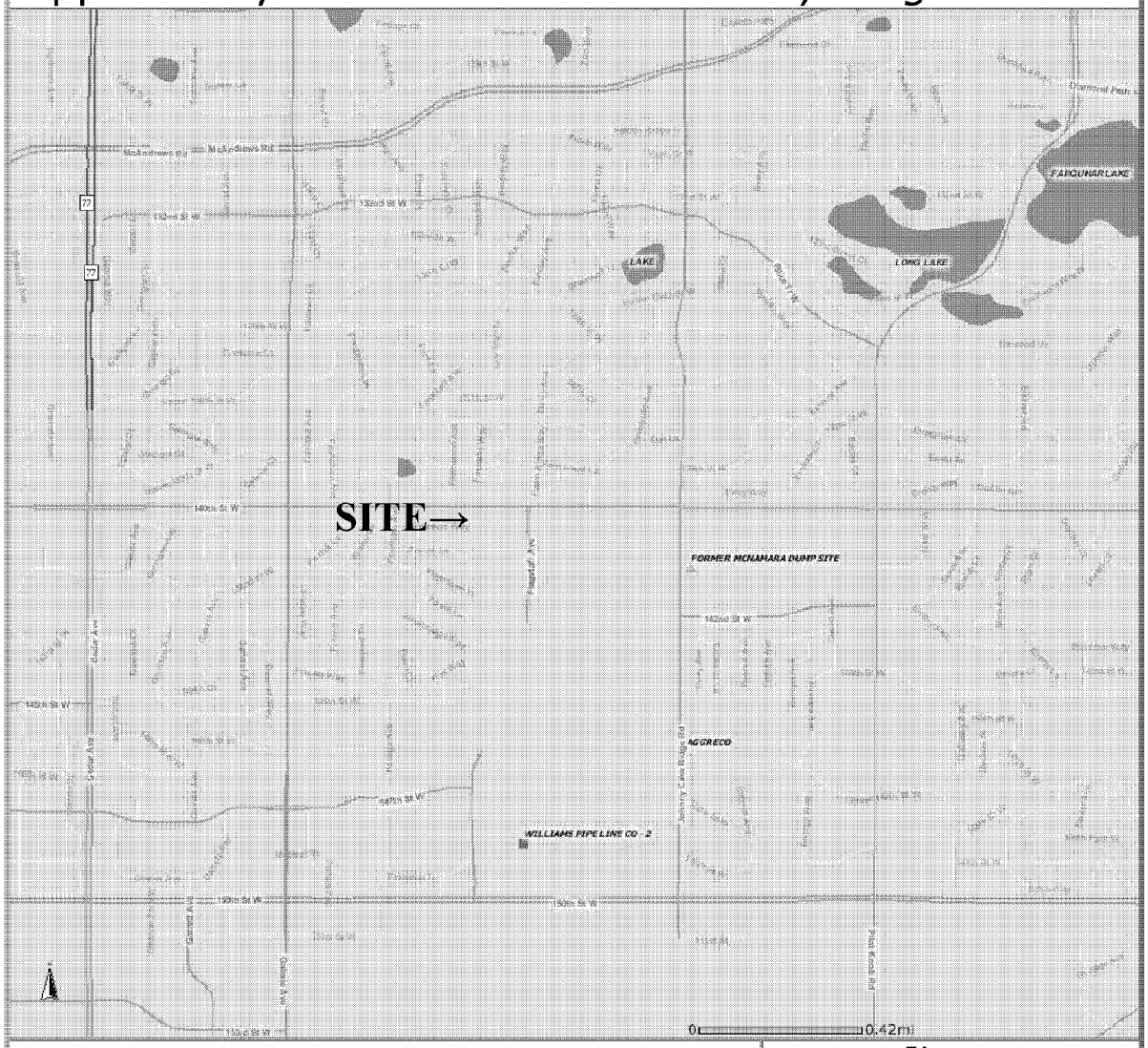
Site Name:	Apple Valley 140th Street
Fire Department:	Apple Valley Fire Department 7100 147th Street West Apple Valley, MN 55124
Site Contact:	Nealon Thompson, Deputy Chief 952-953-2600 nthompson@ci.apple-valley.mn.us

Training Location:	Fire Station #1, 15000 Hayes Rd; and, Apple Valley central maintenance facility, 6442 140th St. W.
Type of foam used in training:	Angus AFFF Angus Tridex AR-AFF Angus Hi-Combat Class A
Foam training frequency:	Bi-Annually
Foam use per training event:	5 to 10 gallons
Spent foam destination:	Storm sewer, sanitary sewer, ground
Annual foam use:	AFFF - 3 gallons (historical use only) AR-AFF - 15 gallons Class A - 10 gallons
Nearest surface water:	Alimagnet Lake located approximately 0.7 miles northwest of Hayes Road training site; unidentified pond approximately 0.7 mile north-northeast of 140th Street training site.
Nearest wetland:	<1/8 mile northeast for the Hayes Road training site; <1/4 mile south-southwest for the 140th Street training site.
Karst Area:	Training site located in covered karst area.
Nearest water well:	<1/4 mile southwest for the Hayes Road training site; <1/8 mile east for the 140th Street training site.
Nearest Wellhead Protection Area:	<1/3 mile southwest for the Hayes Road training site; the 140th Street training site is located within a Wellhead Protection Area.
SITE RANKING:	**16**

APPLE VALLEY 140th Street CWI Well Map



Apple Valley 140th Street *What's In My Neighborhood*



Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

Minnesota Pollution Control Agency

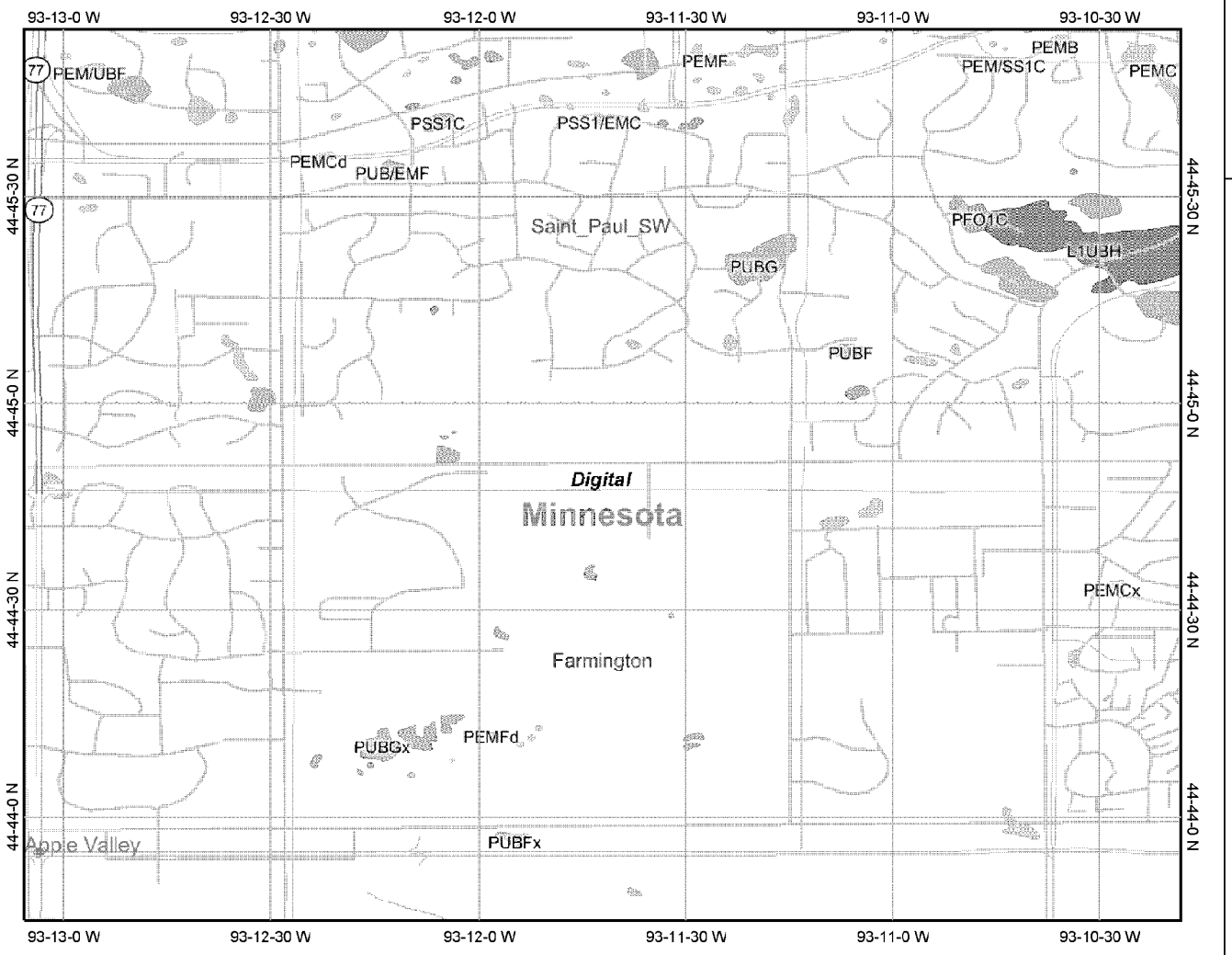
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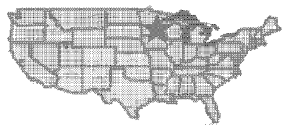
- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- MFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

STATE_02821998

2222.1041

Apple Valley 140th St Wetland Map





Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:27,882

Map center: 44° 44' 50" N, 93° 11' 42" W

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

2222.1042

STATE_02821999

Minnesota Unique Well No.
101174

County Dakota
Quad Farmington
Quad ID 88B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 09/15/1988
Update Date 03/21/2006
Received Date

Well Name NORTHSTAR CONCRETE
Township Range Dir Section Subsections Elevation 984 **ft.**
115 20 W 26 CDDDCB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
240 **ft.**	240 **ft.**	04/27/1977

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 190 ft.	lbs./ft.	4 in. to 240 ft.

Well Address
6055 150TH ST W
APPLE VALLEY MN 55124

Open Hole from 190 ft. to 240 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
GRAVEL	BROWN		0	156
SANDSTONE	YELLOW	SOFT	156	182
SANDSTONE	GRAY	MEDIUM	182	220
LIMESTONE	GRAY	HARD	220	240

Static Water Level
92 ft. from Land surface Date Measured 04/27/1977

PUMPING LEVEL (below land surface)
102 ft. after 2 hrs. pumping 40 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Bentonite from to ft.

Located Minnesota Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 485094 **Y:** 4953231

Nearest Known Source of Contamination
75 feet N direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☑ Not Installed Date Installed
Manufacturer's name DEMING Model number __ HP 0.75 Volts 14
Length of drop Pipe 110 ft. Capacity __g.p.m Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Ryan Well Co. 19063 BOHN, G.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock St.Peter
Last Strat Prairie Du Chien Group
Aquifer St.Peter-Prairie Du Chien
Depth to Bedrock 156 **ft.**

County Well Index Online Report | **101174** | Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.
205821

County Dakota
Quad Farmington
Quad ID 88B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 09/15/1988
Update Date 02/22/2007
Received Date

Well Name OSCAR ROBERTS CO.
Township Range Dir Section Subsections Elevation 1015 **ft.**
115 20 W 22 DDACDD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
493 **ft.**	493 **ft.**	12/10/1965

Drilling Method Cable Tool

Geological Material	Color	Hardness	From	To
CLAY	BROWN		0	12
GRAVEL AND BOULDERS			12	60
CLAY AND STONES	BLUE		60	73
LIMESTONE	BROWN		73	105
ST. PETER SANDSTONE	BROWN		105	108
ST. PETER SANDSTONE	WHITE		108	209
ST. PETER SANDSTONE	WHITE		209	235
ST. PETER SANDSTONE	TAN		235	255
SHAKOPEE LIMESTONE	TAN		255	270
SHAKOPEE LIMESTONE	WHITE		270	332
SHAKOPEE LIMESTONE	DARK		332	450
JORDAN SANDSTONE	WHITE		450	493

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Industrial

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter	Weight	Hole Diameter
16 in. to 73 ft.	lbs./ft.	
12 in. to 276 ft.	lbs./ft.	

Open Hole from 276 ft. to 493 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
136 ft. from Land surface Date Measured 12/10/1965

PUMPING LEVEL (below land surface)
154 ft. after hrs. pumping 1200 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
GAMMA & CALIPER LOGGED AND TV 9-12-2000.
12 IN. CASING TO 250 FT. CASING PROBABLY CUT OFF AS PIT WAS DEEPENED.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey **Method** Digitization (Screen) - Map (1:24,000)

Unique Number Verification Information from owner **Date** N/A

System *UTM - Nad83, Zone15, Meters* **X:** 484261 **Y:** 4955005

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 12/00/1965
Manufacturer's name JACUZZI Model number ___ HP 100 Volts
Length of drop Pipe 200 ft. Capacity 1200 g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Borehole Geophysics Yes
First Bedrock Platteville
Last Strat Jordan
Aquifer Multiple
Depth to Bedrock 73 **ft.**

Well Contractor Certification

Renner E.H. & Sons	27015	SIGAFOOS, G.
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report | **205821** | Printed 6/25/2008 HE-01205-07

STATE_02822001

2222.1044

Minnesota Unique Well No.
207676

County Dakota
Quad Farmington
Quad ID 88B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 09/15/1988
Update Date 03/21/2006
Received Date

Well Name AMCO WAREHOUSE
Township Range Dir Section Subsections Elevation 957 **ft.**
115 20 W 27 DAADAB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
220 **ft.**	220 **ft.**	11/29/1973

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Commercial

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
6 in. to 141 ft.	lbs./ft.	

Open Hole from 141 ft. to 220 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
150TH ST W
APPLE VALLEY MN 55124

Geological Material	Color	Hardness	From	To
GRAVEL			0	138
SANDSTONE, LIMESTONE			138	220

Static Water Level
65 ft. from Land surface Date Measured 11/29/1973

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
WELL DRILLED BY GENZ-RYAN.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification N/A **Date** N/A

System *UTM - Nad83, Zone15, Meters* **X:** 484351 **Y:** 4953911

Nearest Known Source of Contamination
_feet _direction _type

Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 03/19/1974
Manufacturer's name JACUZZI Model number 7556B8-T2 HP 7.5 Volts 230
Length of drop Pipe 108 ft. Capacity _g.p.m Type Material

2222.1045

STATE_02822002

	Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No
	Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No
	Well Contractor Certification
First Bedrock St.Peter-Prairie Du Chien **Last Strat** St.Peter-Prairie Du Chien **Aquifer** St.Peter-Prairie Du Chien **Depth to Bedrock** 138 **ft.**	HELGESON, J. License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report	**207676**	Printed 6/25/2008 HE-01205-07

2222.1046

STATE_02822003

Minnesota Unique Well No.
207678

County Dakota
Quad Farmington
Quad ID 88B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 09/15/1988
Update Date 03/21/2006
Received Date

Well Name OSCAR ROBERTS CO.
Township Range Dir Section Subsections Elevation 1008 **ft.**
115 20 W 22 DDDBDB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
333 ft.	333 ft.	05/06/1974

Drilling Method Multiple methods used

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Industrial

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
8 in. to 261 ft.	lbs./ft.	8 in. to 333 ft.

Open Hole from 261 ft. to 333 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
140TH ST W
APPLE VALLEY MN 55124

Geological Material	Color	Hardness	From	To
GRAVEL & ROCKS	BROWN		0	65
LIMESTONE	BRN/GRY		65	94
SHALE & SANDSTONE	VARIED		94	240
LIMESTONE	GRAY		240	333

Static Water Level
125 ft. from Land surface Date Measured 05/06/1974

PUMPING LEVEL (below land surface)
ft. after hrs. pumping 300 g.p.m.

Well Head Completion
Pitless adapter manufacturer WHITEWATER Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey **Method** Digitization (Screen) - Map (1:24,000)
Unique Number Verification Other, note in remarks **Date** 09/25/2000
System *UTM - Nad83, Zone15, Meters* **X:** 484247 **Y:** 4954937

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 00/00/1974
Manufacturer's name RED JACKET Model number ___ HP 7.5 Volts 440
Length of drop Pipe 109 ft. Capacity 55 g.p.m Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Renner E.h. & Sons 02015 PAUL/RAY
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Platteville **Aquifer** Prairie Du Chien Group
Last Strat Prairie Du Chien Group **Depth to Bedrock** 65 **ft.**

County Well Index Online Report **207678** Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.
250080

County Dakota
Quad Farmington
Quad ID 88B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 03/19/1996
Update Date 03/21/2006
Received Date

Well Name
Township Range Dir Section Subsections Elevation 992 **ft.**
115 20 W 26 BBABBC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
124 **ft.**	124 **ft.**	

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
5 in. to 122 ft.	lbs./ft.	

Open Hole from 122 ft. to 124 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
6352 140TH ST W
APPLE VALLEY MN 55124

Geological Material	Color	Hardness	From	To
GLACIAL DRIFT			0	40
NO RECORD			40	124

Static Water Level
105 ft. from Land surface Date Measured 09/21/1995

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
GAMMA LOGGED 9-21-1995. OBSTRUCTED AT 40 FEET.
WELL SEALED 11-09-1995 BY 27172.
ORIGINAL USE DO - DOMESTIC.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Information from owner
Date 07/28/2004
System *UTM - Nad83, Zone15, Meters*
X: 484620 **Y:** 4954755

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0 Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Borehole Geophysics Yes
First Bedrock
Last Strat No Record
Aquifer
Depth to Bedrock ft.

Well Contractor Certification
Minnesota Geological Survey MGS
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report | **250080** | Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.
256762

County Dakota
Quad Farmington
Quad ID 88B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 06/06/2005
Update Date 03/21/2006
Received Date

Well Name KIDWELL, ALICIA

Township	Range	Dir	Section	Subsections	Elevation	Elevation Method
115	20	W	27	BADADC	965 ft.	7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
78 ft.	78 ft.	0

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** ft.

Casing Diameter	Weight	Hole Diameter
5 in. to ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
7024 142ND ST W
APPLE VALLEY MN 55124

Geological Material	Color	Hardness	From	To
GLACIAL DRIFT			0	77

Static Water Level
62 ft. from Land surface Date Measured 06/06/2005

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
GAMMA LOGGED 6-6-2005.
WELL TO BE SEALED SEALING NO. H-228844.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number
Verification Information from owner
Date 06/06/2005
System *UTM - Nad83, Zone15, Meters*
X: 483546 **Y:** 4954529

Nearest Known Source of Contamination
0 feet direction type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number HP Volts
Length of drop Pipe ft. Capacity g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

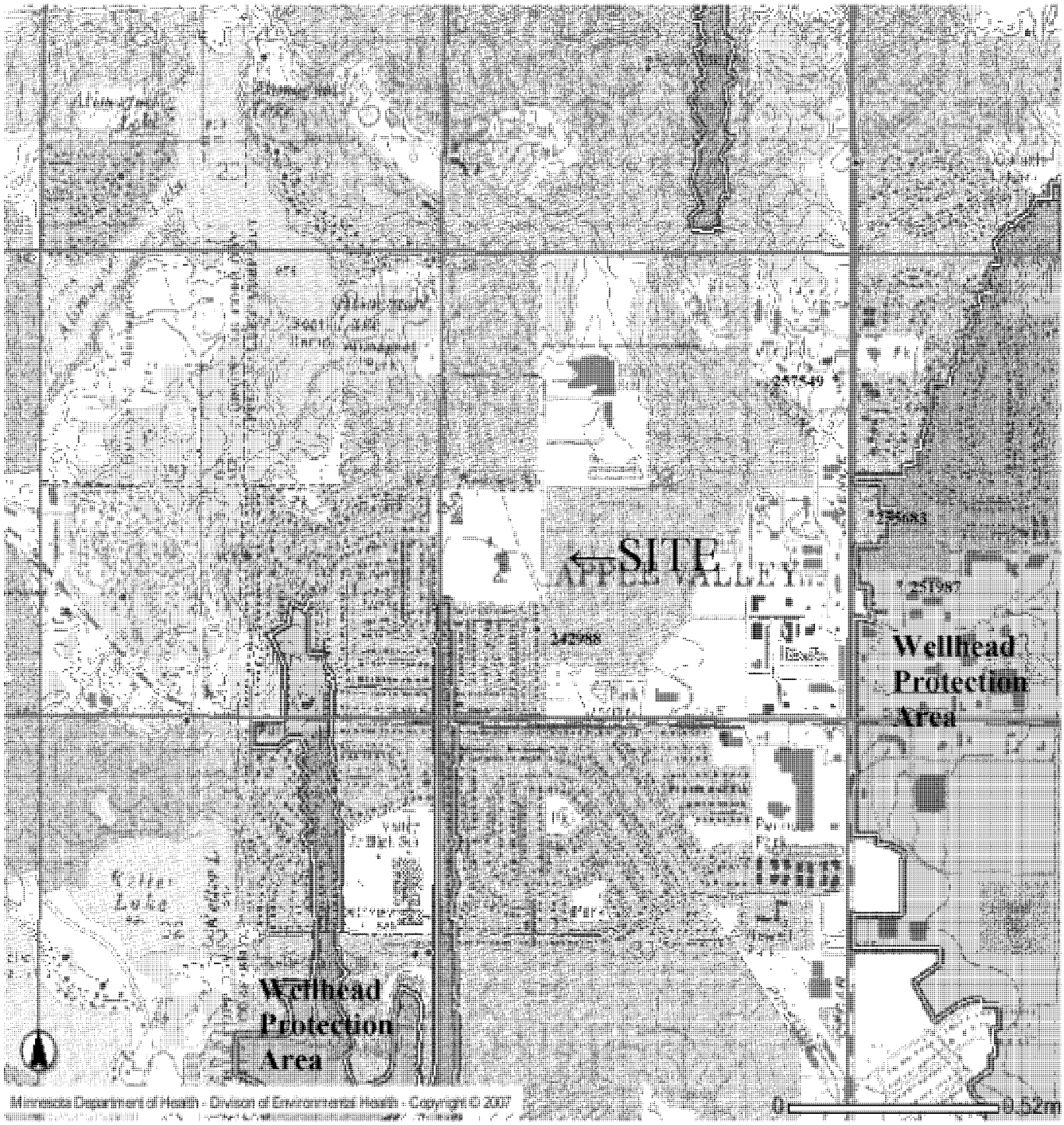
Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Minnesota Geological Survey MGS
License Business Name Lic. Or Reg. No. Name of Driller

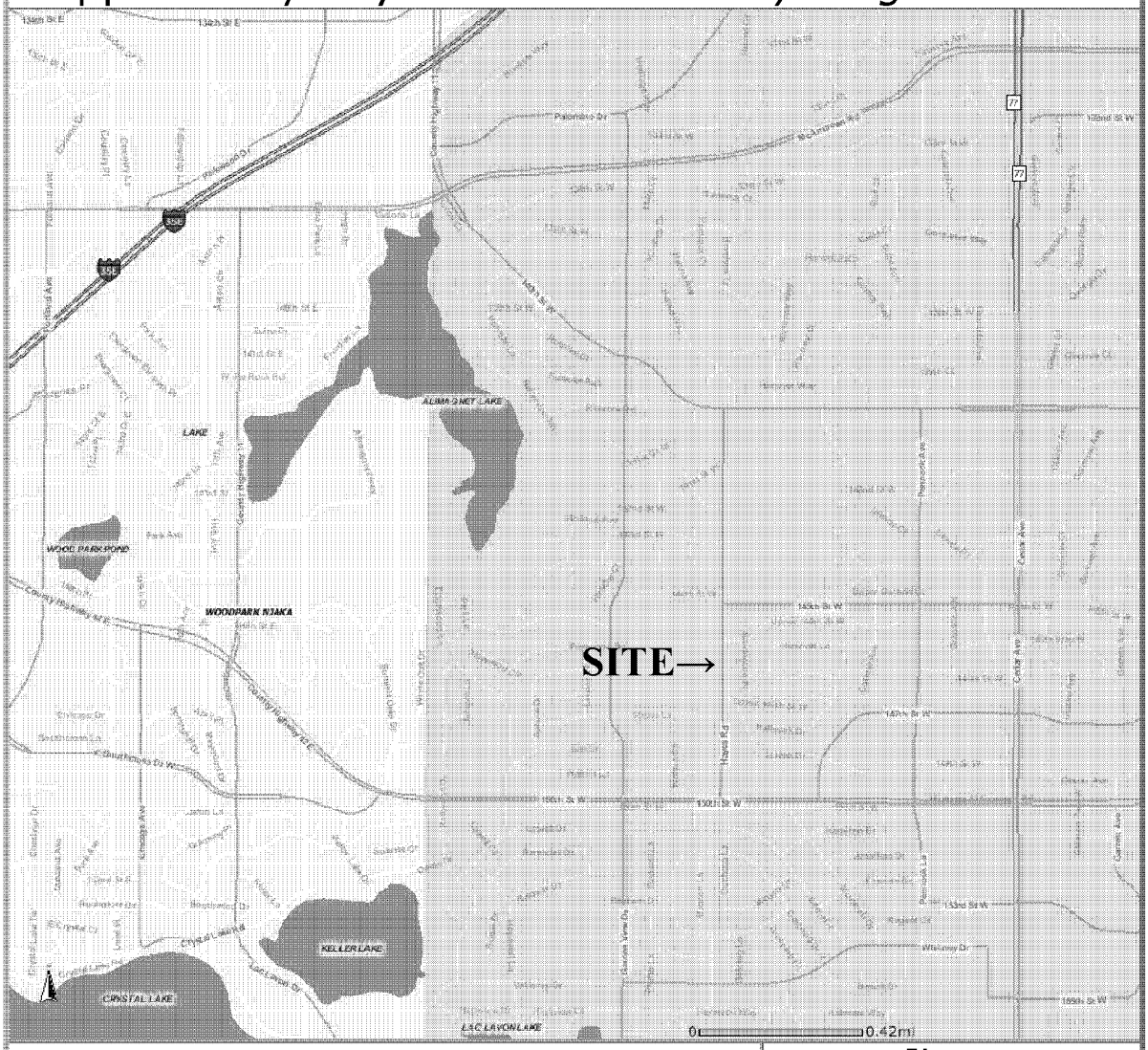
First Bedrock
Last Strat Unknown deposit type
Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **256762** | Printed 6/25/2008 HE-01205-07

-APPLE VALLEY Hayes Road CWI Well Map



Apple Valley Hayes Rd *What's In My Neighborhood*



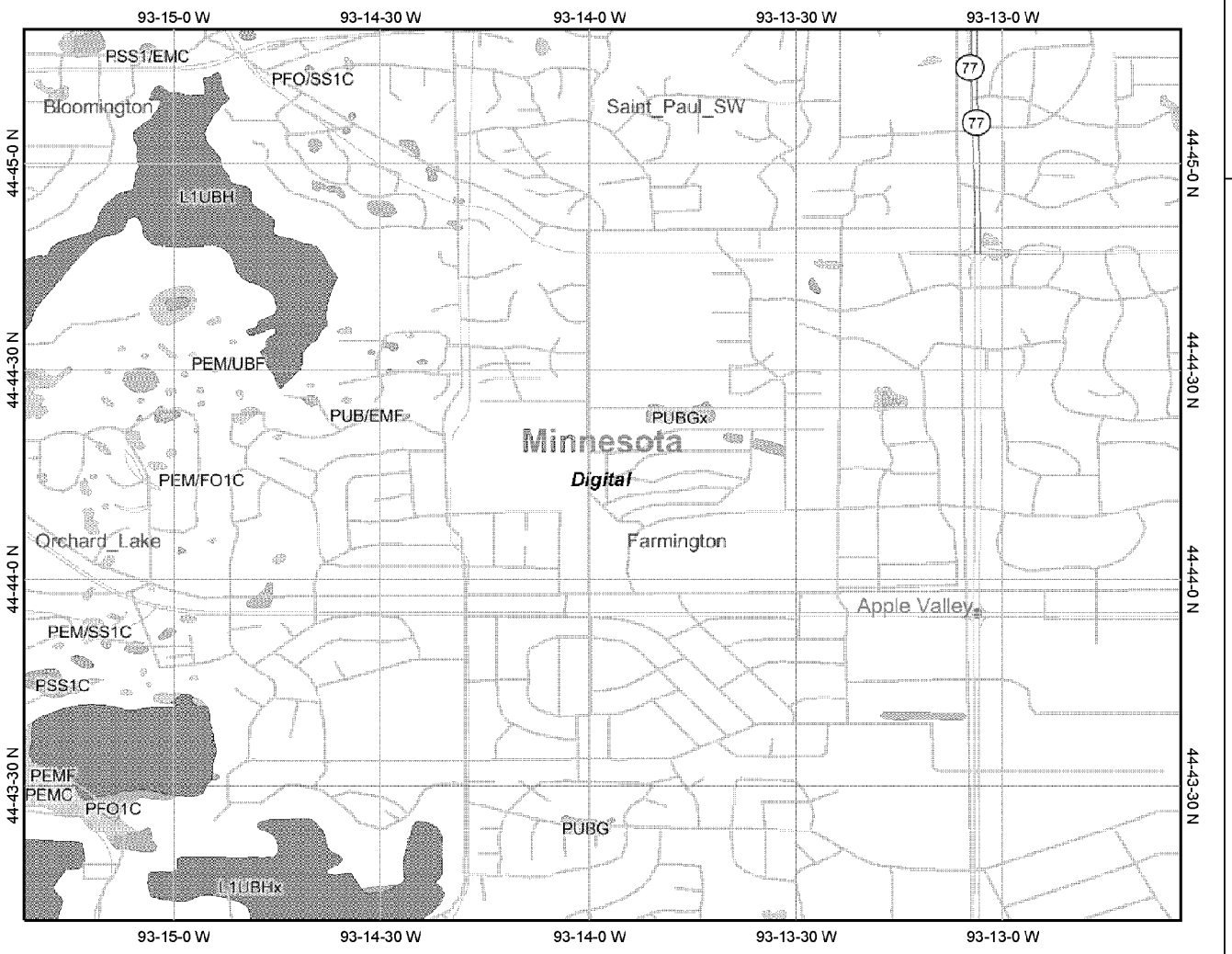
Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

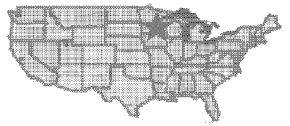
Minnesota Pollution Control Agency

Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- HFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

Apple Valley Wetland Map





Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:27,882

Map center: 44° 44' 15" N, 93° 13' 58" W

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

2222.1052

STATE_02822009

Minnesota Unique Well No.
242988

County Dakota
Quad Farmington
Quad ID 88B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 12/01/1990
Update Date 03/21/2006
Received Date

Well Name

Township Range Dir Section Subsections Elevation 967 **ft.**

115 20 W 28 CCAADD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
70 **ft.**	70 **ft.**	

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Domestic

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
148 HAYES RD
APPLE VALLEY MN 55124

Geological Material	Color	Hardness	From	To
DRIFT			0	70

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
GAMMA LOGGED 9-18-1990.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Information from owner **Date** N/A

System *UTM - Nad83, Zone15, Meters* **X:** 481521 **Y:** 4953505

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Borehole Geophysics Yes
First Bedrock
Last Strat Unknown deposit type
Aquifer Quaternary Undiff.
Depth to Bedrock ft.

Well Contractor Certification
Minnesota Geological Survey MGS
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report | **242988** | Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.
251987

County Dakota
Quad Farmington
Quad ID 88B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 01/28/1999
Update Date 08/04/2005
Received Date

Well Name MINNEHAHA MURSERY
Township Range Dir Section Subsections Elevation 955 **ft.**
115 20 W 27 CBCDAD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
340 **ft.**	340 **ft.**	

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 1.5 **ft.**

Casing Diameter	Weight	Hole Diameter
8 in. to 166 ft.	lbs./ft.	

Open Hole from 166 ft. to 340 ft.

Screen NO **Make** **Type**

Diameter **Slot/Gauze** **Length** **Set Between**

Well Address

APPLE VALLEY MN

Geological Material	Color	Hardness	From	To
GLACIAL DRIFT			0	161
ST. PETER SANDSTONE			161	214
PRAIRIE DU CHIEN GROUP			214	340

Static Water Level
66 ft. from Land surface Date Measured 01/28/1999

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
GAMMA LOGGED 1-28-1999.
WELL SEALED 02-09-1999 BY 70350
ORIGINAL USE IR - IRRIGATION

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey **Method** Digitization (Screen) - Map (1:24,000)
Unique Number Verification Information from owner **Date** 07/28/2004
System *UTM - Nad83, Zone15, Meters* **X:** 482960 **Y:** 4953663

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

2222.1054

STATE_02822011

	Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No
	Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No
Borehole Geophysics Yes **First Bedrock** St.Peter **Aquifer** St.Peter-Prairie Du Chien **Last Strat** Prairie Du Chien Group **Depth to Bedrock** 161 **ft.**	**Well Contractor Certification** Minnesota Geological Survey MGS License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report	**251987**	Printed 6/25/2008 HE-01205-07

2222.1055

STATE_02822012

Minnesota Unique Well No.
255683

County Dakota
Quad Farmington
Quad ID 88B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/22/2003
Update Date 01/06/2005
Received Date

Well Name

Township Range Dir Section Subsections Elevation 955 **ft.**

115 20 W 27 CBBBDA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
177 **ft.**	177 **ft.**	

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 162 ft.	lbs./ft.	4 in. to 177 ft.

Open Hole from 162 ft. to 177 ft.

Screen NO **Make** **Type**

Diameter **Slot/Gauze** **Length** **Set Between**

Well Address
14515 GLAZER AV
APPLE VALLEY MN 55124

Geological Material	Color	Hardness	From	To
GLACIAL DRIFT			0	49
GLENWOOD SHALE			49	58
ST. PETER SANDSTONE			58	177

Static Water Level
67 ft. from Land surface Date Measured 03/26/2001

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
GAMMA LOGGED 3-26-2001.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)

Unique Number
Verification Information from owner
Date N/A

System *UTM - Nad83, Zone15, Meters* **X:** 482845 **Y:** 4953907

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Borehole Geophysics Yes
First Bedrock Glenwood
Last Strat St.Peter
Aquifer St.Peter
Depth to Bedrock 49 **ft.**

Well Contractor Certification
Minnesota Geological Survey MGS
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report | **255683** | Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.
257549

County Dakota
Quad Farmington
Quad ID 88B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 07/27/2007
Update Date 08/01/2007
Received Date

Well Name OLD PARSONAGE
Township Range Dir Section Subsections Elevation 971 **ft.**
115 20 W 28 ADAABA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
126 **ft.**	126 **ft.**	

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 59 ft.	lbs./ft.	4 in. to 126 ft.

Well Address
14201 CEDAR AV S
APPLE VALLEY MN 55124

Open Hole from 59 ft. to 126 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
GLACIAL DRIFT			0	55
PLATTEVILLE LIMESTONE (WEATHERED)			55	66
GLENWOOD SHALE			66	78
ST. PETER SANDSTONE			78	126

Static Water Level
64 ft. from Land surface Date Measured 07/27/2007

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
GAMMA LOGGED 7-27-2007.
FROM 55 TO 68 FEET MAYBE WEATHERED BEDROCK.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Information from owner
Date 07/27/2007
System *UTM - Nad83, Zone15, Meters*
X: 482707 **Y:** 4954375

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Borehole Geophysics Yes
First Bedrock Platteville
Last Strat St.Peter
Aquifer St.Peter
Depth to Bedrock 55 **ft.**

Well Contractor Certification
Minnesota Geological Survey MGS
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report | **257549** | Printed 6/25/2008 HE-01205-07

SITE SUMMARY

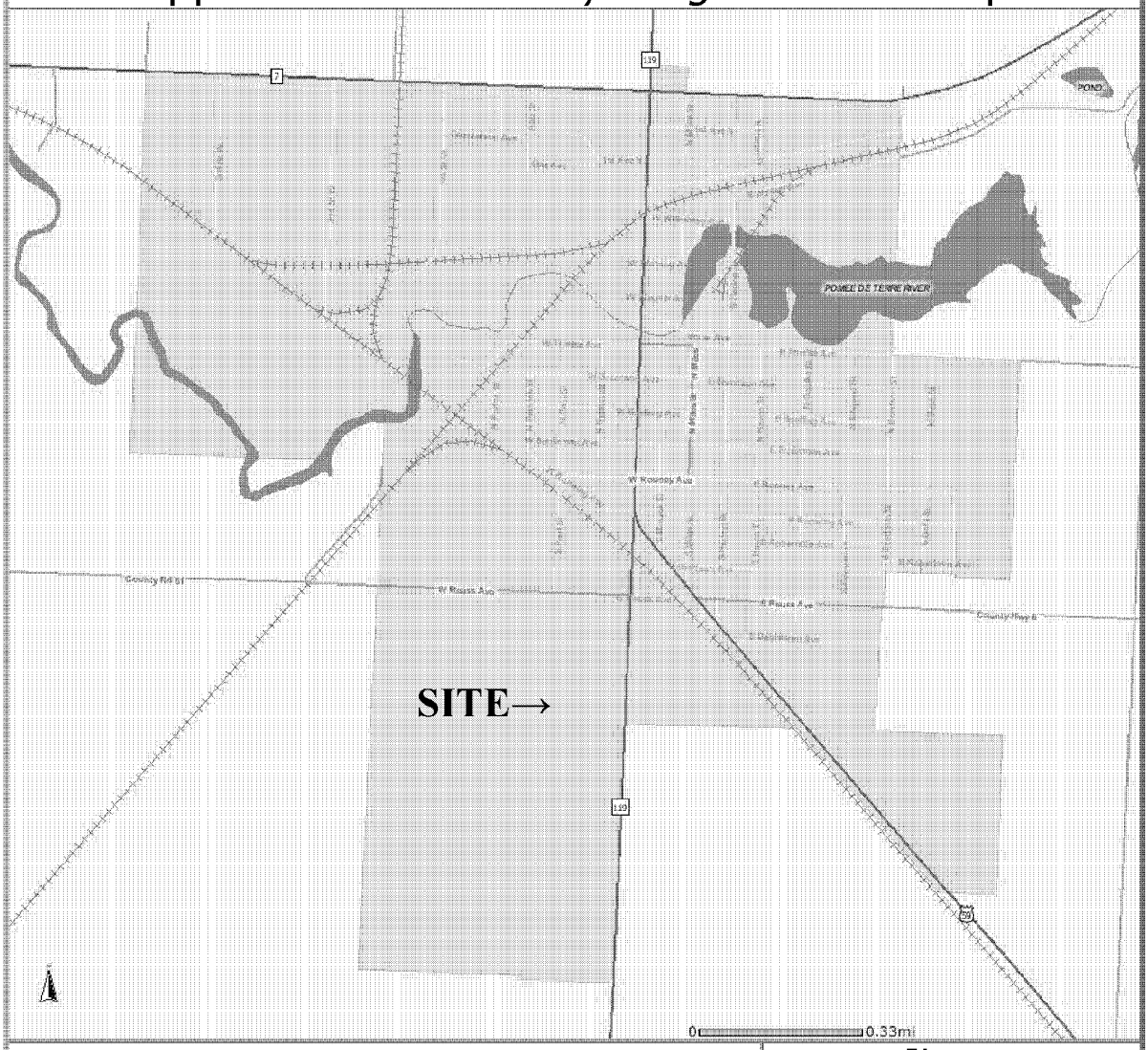
Site Name:	Appleton
Fire Department:	Appleton Fire Department 230 W. Snelling Avenue Appleton, MN 56208
Site Contact:	Roman Ridler, Assistant Fire Chief 320-289-1363 roman_56255@hotmail.com

Training Location:	Appleton Public Works building, 427 S. Munsterman Street, Appleton
Type of foam used in training:	Ansulite 3x3 AR-AFFF Silv-ex Class A
Foam training frequency:	Semi-Annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Ground
Annual foam use:	AR-AFFF - Less than 15 gallons Class A - Less than 15 gallons
Nearest surface water:	Pomme de Terre River located approximately 0.4 miles east
Nearest wetland:	1/8 to 1/4 mile east
Nearest water well:	approximately 1/4 mile southeast
Nearest Wellhead Protection Area:	None within one mile
SITE RANKING:	**11**

APPLETON CWI Well Map



Appleton *What's In My Neighborhood* Map



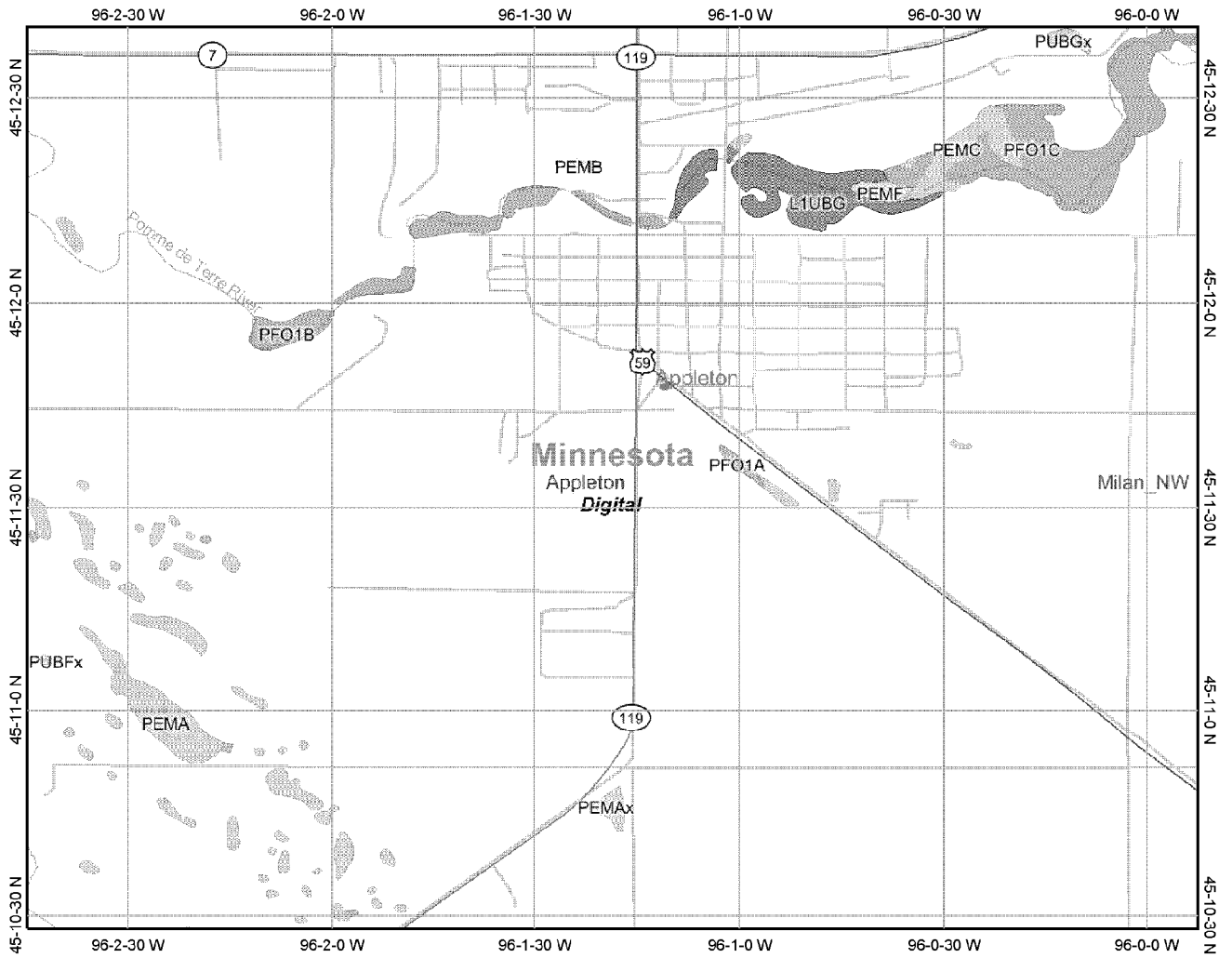
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Minnesota Pollution Control Agency

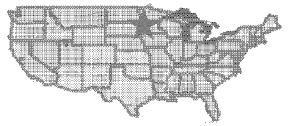
Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- HFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

Appleton Wetland Map



Map center: 45° 11' 34" N, 96° 1' 19" W



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:28,684

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2222.1061

STATE_02822018

Minnesota Unique Well No.
131718

County Swift
Quad Appleton
Quad ID 131A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/17/1988
Update Date 08/27/1996
Received Date

Well Name LAGRANGE, DERALL NO.2
Township Range Dir Section Subsections Elevation 1000 **ft.**
120 43 W 23 BCCCCC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
162 **ft.**	162 **ft.**	04/26/1977

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Irrigation

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 2 **ft.**

Casing Diameter	Weight	Hole Diameter
12 in. to 132 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
0	7	30	132 ft. and 162 ft.

Static Water Level
25 ft. from Land surface Date Measured 04/26/1977

PUMPING LEVEL (below land surface)
65 ft. after hrs. pumping 1000 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
RR 1 BOX 6
APPLETON MN 56208

Geological Material	Color	Hardness	From	To
TOPSOIL	BLACK	SOFT	0	4
SANDY CLAY	BROWN	SOFT	4	8
COARSE GRAVEL	GRAY	SOFT	8	25
CLAY	GRAY	MEDIUM	25	48
FINE SAND	GRAY	SOFT	48	75
COARSE SAND	GRAY	SOFT	75	135
CLAY	BLUE	SOFT	135	136
COARSE SAND	GRAY	SOFT	136	162

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☑ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number
Verification Information from owner
Date N/A

System *UTM - Nad83, Zone15, Meters* **X:** 262712 **Y:** 5008341

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
North Star Drilling 48038 FLICKER, D.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **131718** | Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.
139249

County Swift
Quad Appleton
Quad ID 131A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/17/1988
Update Date 08/21/1996
Received Date

Well Name WATSON, DORTHY
Township Range Dir Section Subsections Elevation 1011 **ft.**
120 43 W 22 BDDDBB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
101 **ft.**	90 **ft.**	05/10/1979

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Irrigation

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 2 **ft.**

Casing Diameter	Weight	Hole Diameter
12 in. to 60 ft.	lbs./ft.	16 in. to 90 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
12	70	30	60 ft. and 90 ft.

Geological Material	Color	Hardness	From	To
TOP SOIL	BLACK	SOFT	0	2
SAND	BROWN	SOFT	2	21
CLAY	GRAY	MEDIUM	21	43
SAND	BROWN	MEDIUM	43	90
SAND	BROWN	MEDIUM	90	101

Static Water Level
34 ft. from Land surface Date Measured 05/10/1979

PUMPING LEVEL (below land surface)
59 ft. after hrs. pumping 900 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☑ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Other, note in remarks
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 261791 **Y:** 5008450

Nearest Known Source of Contamination
1320 feet W direction Other type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number HP 0 Volts
Length of drop Pipe ft. Capacity g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
North Star Drilling 48038 BLISS, L.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-brown
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report **139249** Printed 6/25/2008 HE-01205-07

STATE_02822020

2222.1063

Minnesota Unique Well No.
222325

County Swift
Quad Appleton
Quad ID 131A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/17/1988
Update Date 12/10/1996
Received Date

Well Name MN DNR OBWELL 76-021
Township Range Dir Section Subsections Elevation 1000 **ft.**
120 43 W 23 BCBBAA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
172 **ft.**	165 **ft.**	07/09/1979

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Observation well

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Well Address
APPLETON MN 56208

Casing Diameter	Weight	Hole Diameter
2 in. to 161 ft.	lbs./ft.	

Geological Material	Color	Hardness	From	To
TOPSOIL	BLACK	SOFT	0	1
SANDY CLAY	YELLOW	SOFT	1	10
GRAVEL	BROWN	SOFT	10	20
SAND MEDIUM-COARSE	BROWN	SOFT	20	28
CLAY WITH GRAVEL	GRAY	SOFT	28	36
SAND MEDIUM-COARSE	BROWN	SOFT	36	85
GRAVEL	GRAY	SOFT	85	95
COARSE SAND	GRAY	SOFT	95	110
GRAVEL	GRAY	SOFT	110	145
MEDIUM SAND	GRAY	SOFT	145	150
COARSE SAND	GRAY	SOFT	150	160
GRAVEL	GRAY	SOFT	160	172
CLAY	BLU/GRY	SOFT	172	172

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** plastic

Diameter	Slot/Gauze	Length	Set Between
2	15	4	161 ft. and 165 ft.

Static Water Level
23.7 ft. from Land surface Date Measured 07/09/1979

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
LOCATED BY DNR 376021, M.G.S. NO. 1518.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Information from owner **Date** N/A

System *UTM - Nad83, Zone15, Meters* **X:** 262788 **Y:** 5008701

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP 0 Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Cuttings Yes
First Bedrock
Last Strat Clay-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

Well Contractor Certification
Conroy Well Co. 75294
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report | **222325** | Printed 6/25/2008 HE-01205-07

STATE_02822021

2222.1064

Minnesota Unique Well No.
223982

County Swift
Quad Appleton
Quad ID 131A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/17/1988
Update Date 08/21/1996
Received Date

Well Name MAYNARD, EARL
Township Range Dir Section Subsections Elevation 1012 **ft.**
120 43 W 15 DDBDCD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
60 **ft.**	60 **ft.**	00/00/1962

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
0 in. to 55 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between
0		5	55 ft. and 60 ft.

Well Address
APPLETON MN 56208

Geological Material	Color	Hardness	From	To
CLAY TILL			0	15
SAND			15	60

Static Water Level
30 ft. from Land surface Date Measured 1962

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
LOCATED BY POST OFFICE

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Other, note in remarks
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 262463 **Y:** 5009357

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
United States Geological Survey USGS
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand
Aquifer Quat. Buried Unconf. Aquife
Depth to Bedrock **ft.**

County Well Index Online Report | **223982** | Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.
432423

County Swift
Quad Appleton
Quad ID 131A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 12/07/1990
Update Date 07/10/1996
Received Date

Well Name SARDNER GRAIN TRMNL
Township Range Dir Section Subsections Elevation 1029 **ft.**
120 43 W 23 BBDCDA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
108 **ft.**	108 **ft.**	11/06/1986

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 1 **ft.**

Casing Diameter	Weight	Hole Diameter
5 in. to 98 ft.	lbs./ft.	8 in. to 108 ft.

Well Address
119 HY
APPLETON MN 56208

Open Hole from ft. to ft.

Screen YES **Make** **Type** plastic

Diameter	Slot/Gauze	Length	Set Between
5	10	10	98 ft. and 108 ft.

Geological Material	Color	Hardness	From	To
TOP SOIL	BLACK	HARD	0	2
CLAY	YELLOW	MEDIUM	2	17
SAND	YELLOW	MEDIUM	17	24
CLAY	BLUE	HARD	24	57
FINE SAND	GRAY		57	89
SAND	GRAY	MEDIUM	89	108

Static Water Level
32 ft. from Land surface Date Measured 11/06/1986

PUMPING LEVEL (below land surface)
40 ft. after hrs. pumping 12 g.p.m.

Well Head Completion
Pitless adapter manufacturer MERRILL Model SPK-5
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Cuttings from 20 to 95 ft. 1 yrds.

Located Minnesota Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number
Verification Information from owner **Date** N/A

System *UTM - Nad83, Zone15, Meters* **X:** 263006 **Y:** 5008729

Nearest Known Source of Contamination
150 feet North West direction Septic tank/drain field type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 11/06/1986
Manufacturer's name GOULDS Model number 10EJ05412
HP 0.5 Volts 220
Length of drop Pipe 70 ft. Capacity 70 g.p.m
Type Submersible Material Plastic

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Jacobs & Grant Well 12073 GRANT, A.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report **432423** Printed 6/25/2008 HE-01205-07

STATE_02822023

2222.1066

Minnesota Unique Well No.
432431

County Swift
Quad Appleton
Quad ID 131A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 12/07/1990
Update Date 07/10/1996
Received Date

Well Name CARL, DENNIS
Township Range Dir Section Subsections Elevation 993 **ft.**
120 43 W 15 DBBDAA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
70 ft.	70 ft.	07/18/1986

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 1 **ft.**

Casing Diameter	Weight	Hole Diameter
5 in. to 60 ft.	lbs./ft.	8 in. to 70 ft.

Well Address

APPLETON MN 56208

Open Hole from ft. to ft.

Screen YES **Make** **Type** plastic

Diameter	Slot/Gauze	Length	Set Between
5	15	10	60 ft. and 70 ft.

Geological Material	Color	Hardness	From	To
TOP SOIL	BLACK	HARD	0	2
CLAY	YELLOW	MEDIUM	2	8
DRY SAND	YELLOW		8	25
CLAY	BLUE	HARD	25	48
SAND	GRAY		48	70

Static Water Level
20 ft. from Land surface Date Measured 07/18/1986

PUMPING LEVEL (below land surface)
35 ft. after hrs. pumping 10 g.p.m.

Well Head Completion
Pitless adapter manufacturer MERRILL Model SPK-5
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Cuttings from 104 to 5 ft. 0.5 yrds.

Located Minnesota Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number
Verification Information from owner **Date** N/A

System *UTM - Nad83, Zone15, Meters* **X:** 262137 **Y:** 5009845

Nearest Known Source of Contamination
100 feet N direction Septic tank/drain field type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 07/18/1986
Manufacturer's name GOULD Model number 10EJ05412
HP 0.5 Volts 220
Length of drop Pipe 47 ft. Capacity 10 g.p.m
Type Submersible Material Plastic

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

First Bedrock
Last Strat Sand-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

Well Contractor Certification
Jacobs & Grant Well 12073 GRANT, A.
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report | **432431** | Printed 6/25/2008 HE-01205-07

STATE_02822024

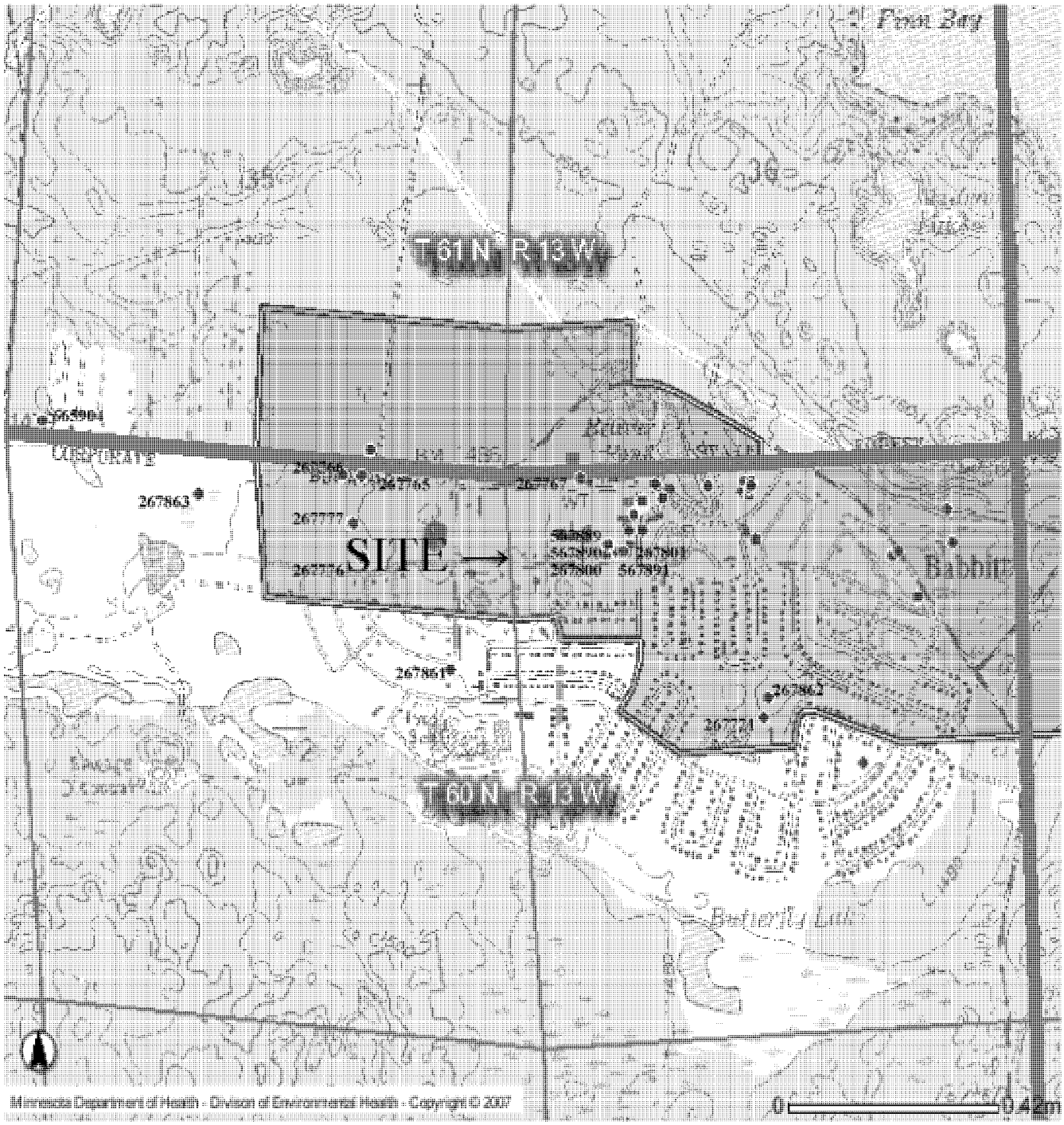
2222.1067

SITE SUMMARY

Site Name:	Babbitt
Fire Department:	Babbitt Fire Department 71 South Drive Babbitt, MN55706
Site Contact:	Ryan Scharber, Fire Chief 218-827-2611 babbittfd@frontiernet.net

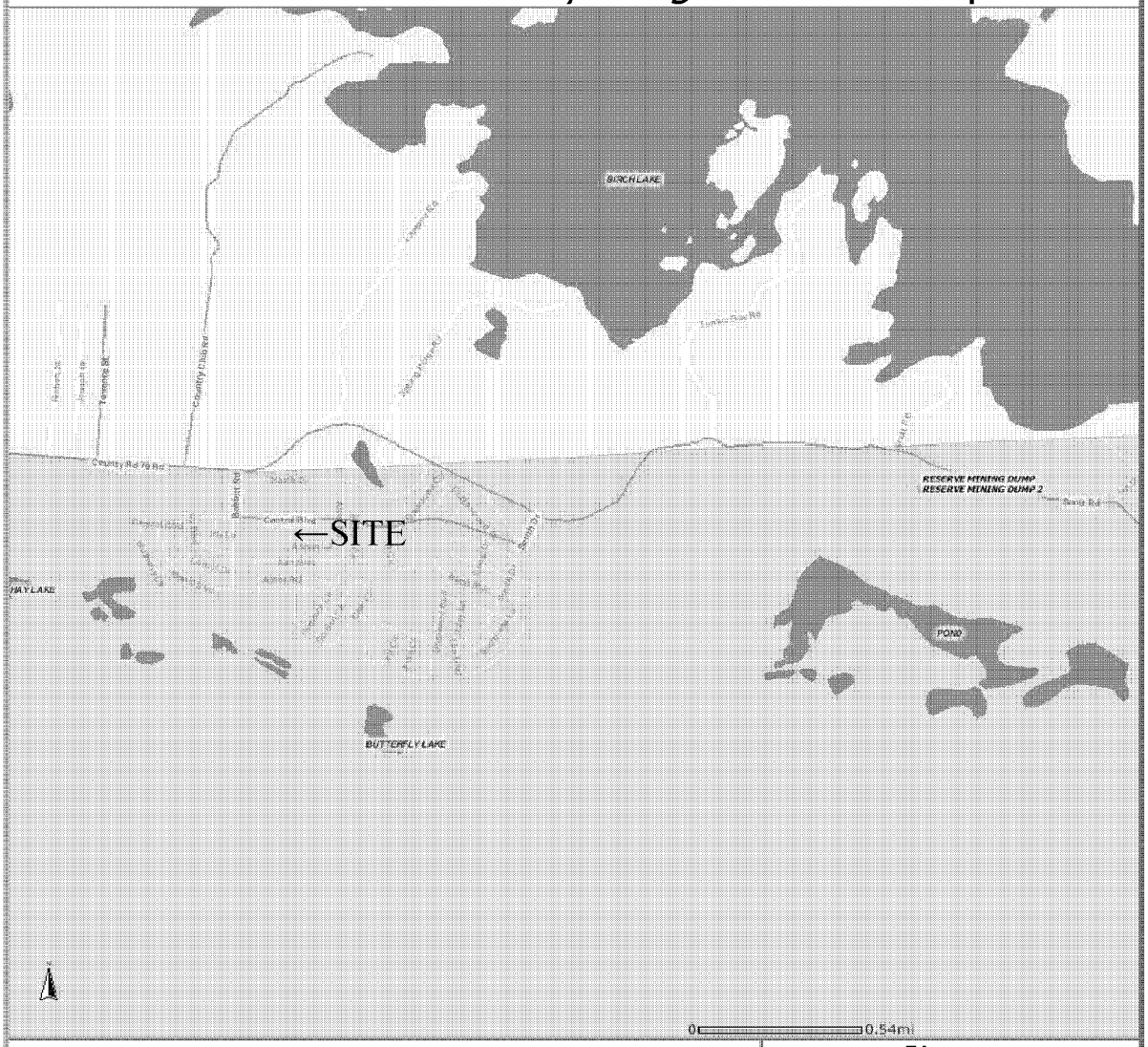
Training Location:	34 North Drive, Babbitt
Type of foam used in training:	Ansulite (noted as training foam on questionnaire, however, Ansulite is an AFFF brand name) Silv-ex Class A
Foam training frequency:	Annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Ground
Annual foam use:	Ansulite AR-AFFF: up to 5 gallons Ansulite training foam or AFFF: up to 5 gallons Class A: 5 to 10 gallons
Nearest surface water:	Unnamed pond approximately 1/3 mile east
Nearest wetland:	1/4 to 1/2 mile south
Nearest water well:	< 1/4 mile east
Nearest Wellhead Protection Area:	Training site located within Wellhead Protection Area
SITE RANKING:	**12**

BABBITT CWI Well Map



STATE_02822026

Babbitt *What's In My Neighborhood* Map



Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

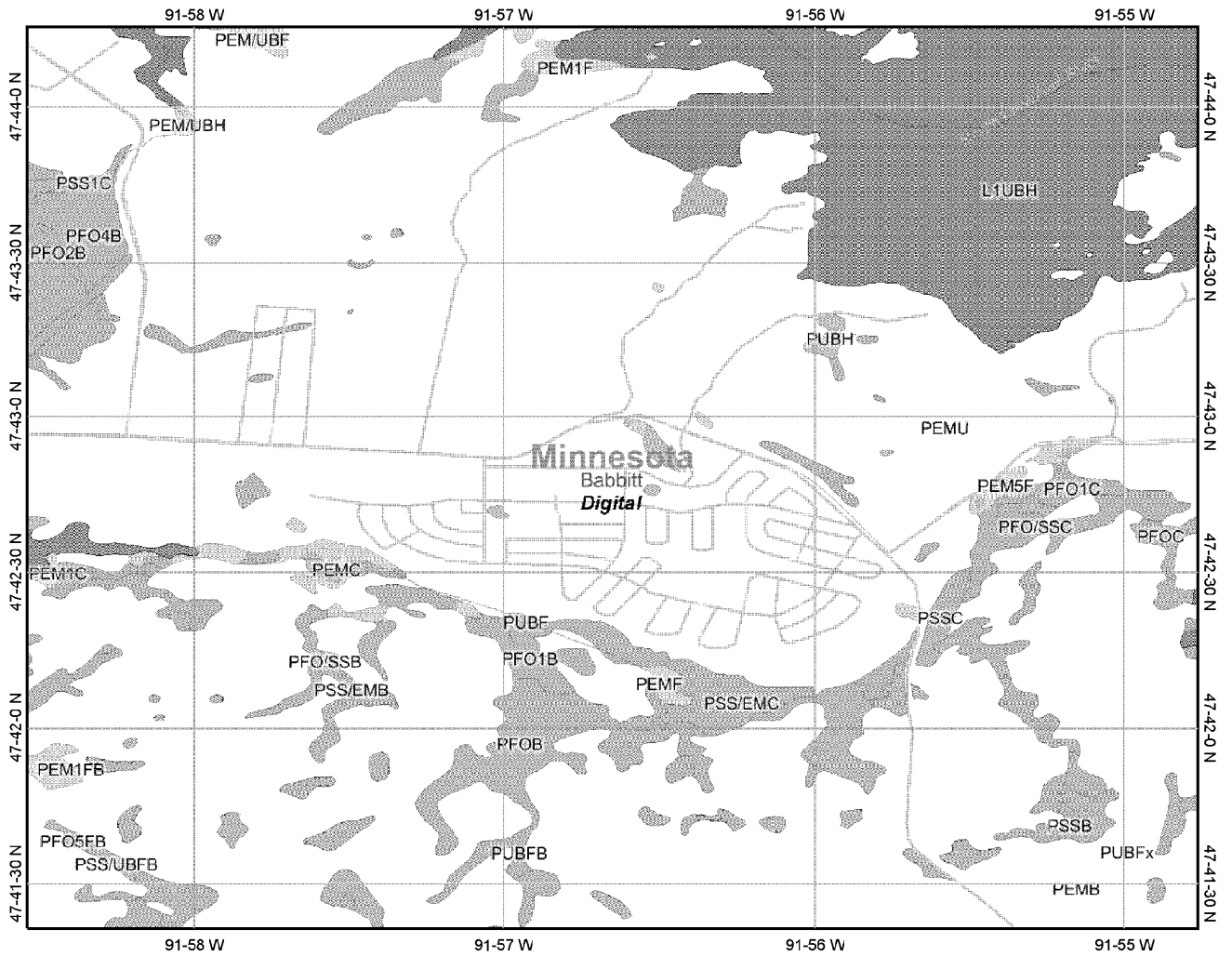
Minnesota Pollution Control Agency

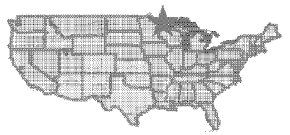
Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dump
- NFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

-

Babbitt Wetland Map





Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:37,658

Map center: 47° 42' 48" N, 91° 56' 39" W

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

2222.1071

STATE_02822028

Minnesota Unique Well No.
267765

County St. Louis
Quad Babbitt
Quad ID 317B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 05/25/2005
Update Date 06/01/2005
Received Date

Well Name BABBITT MW-TH-2-99
Township Range Dir Section Subsections Elevation 1476 **ft.**
60 13 W 2 ABAA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
178 **ft.**	178 **ft.**	06/17/1999

Drilling Method --

Geological Material	Color	Hardness	From	To
TOP SOIL	BLACK		0	1
SAND & LIGHT GRAVEL	BROWN		1	17
FINE SAND	BROWN		17	60
VERY FINE SILTY SAND	DK. BRN		60	98
FINE SILTY SAND	DK. BRN		98	155
SAND	GRY/PNK		155	157
SAND & GRAVEL	GRY/PNK		157	167
LENSES- SAND, GRAVEL, CLAY	VARIED		167	170
ROCK	VARIED		170	171
LENSES - SAND, CLAY, GRAVEL	VARIED		171	177
ROCK	RED		177	178

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Exploration boring

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter **Weight** **Hole Diameter**

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter **Slot/Gauze** **Length** **Set Between**

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
SEALED IN 1999 (H0155277)
LOCATED IN FIELD

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Bentonite from 2 to 178 ft. 9 bags

Located Minnesota Department of Health
Method Digitization (Screen) - Map (1:12,000)
Unique Number
Verification Other, note in remarks
Date 06/01/2005
System *UTM - Nad83, Zone15, Meters*
X: 578367 **Y:** 5285100

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
L.t.p. Enterprises, Inc. 91686
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat
Aquifer
Depth to Bedrock **ft.**

County Well Index Online Report

267765

Printed 6/25/2008
HE-01205-07

Minnesota Unique Well No.
267766

County St. Louis
Quad Babbitt
Quad ID 317B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 05/25/2005
Update Date 06/01/2005
Received Date

Well Name BABBITT MW-TH-3-99
Township Range Dir Section Subsections Elevation 1476 **ft.**
60 13 W 2 ABAB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
190 **ft.**	190 **ft.**	06/22/1999

Drilling Method --

Geological Material	Color	Hardness	From	To
TOP SOIL	BLACK		0	1
SAND & GRAVEL	BROWN		1	20
FINE SAND	BROWN		20	119
SAND	BROWN		119	121
FINE SAND	DK. GRY		121	154
ROCK, SAND, & GRAVEL	VARIED		154	164
SAND & GRAVEL	VARIED		164	166
SAND & GRAVEL	VARIED		166	176
GRAVEL	VARIED		176	181
SAND & GRAVEL			181	186
LENSES OF SAND & GLAY	GRAY		186	188
ROCK	GREEN		188	190

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Exploration boring

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 145 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between
			146 ft. and 172 ft.

Static Water Level
12 ft. from No Information Date Measured 06/22/1999

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
SEALED IN 1999 (H0155278)
LOCATED IN FIELD
ACCURACY GREATER THAN 25 FEET
LOCATED ON MONITORING WELL MAP

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Bentonite from 2 to 190 ft. 10 bags

Located Minnesota Department of Health **Method** Digitization (Screen) - Map (1:12,000)

Unique Number
Verification Other, note in remarks **Date** 06/01/2005

System *UTM - Nad83, Zone15, Meters* **X:** 578308 **Y:** 5285102

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

First Bedrock **Aquifer** Quat. Water Table Aquifer
Last Strat **Depth to Bedrock** **ft.**

Well Contractor Certification
L.t.p. Enterprises, Inc. 91686
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report	267766	Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.
267767

County St. Louis
Quad Babbitt
Quad ID 317B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 05/25/2005
Update Date 05/25/2005
Received Date

Well Name BABBITT MW-TH-4-99

Township	Range	Dir	Section	Subsections	Elevation
60	13	W	1	BBAB	1476 ft.

Elevation Method Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
196 ft.	196 ft.	09/14/1999

Drilling Method --

Well Address

MN

Geological Material	Color	Hardness	From	To
TOP SOIL	BLACK		0	1
SAND & GRAVEL	RED/BRN		1	5
SAND	RED/BRN		5	15
VERY DIRTY SAND	RED/BRN		15	35
FINE SILTY SAND	DK. BRN		35	196
ROCK			196	196

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Exploration boring

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter **Weight** **Hole Diameter**

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter **Slot/Gauze** **Length** **Set Between**

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
SEALED IN 1999 (H0155279)
LOCATED BY THE BIG TOWER

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Bentonite from 2 to 196 ft. 13 bags

Located Minnesota Department of Health

Method Digitization (Screen) - Map (1:12,000)

Unique Number

Verification Other, note in remarks

Date 05/25/2005

Nearest Known Source of Contamination
_feet _direction _type

Well disinfected upon completion? ☐ Yes ☐ No

System *UTM - Nad83, Zone15, Meters*

X: 579062 **Y:** 5285092

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

First Bedrock
Last Strat

Aquifer
Depth to Bedrock **ft.**

STATE_02822032

2222.1075

	Well Contractor Certification L.t.p. Enterprises, Inc. 91686 License Business Name Lic. Or Reg. No. Name of Driller	
County Well Index Online Report	**267767**	Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.
267771

County St. Louis
Quad Babbitt
Quad ID 317B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 05/25/2005
Update Date 06/27/2005
Received Date

Well Name BABBITT MW-TH-9-99
Township Range Dir Section Subsections Elevation 1489 **ft.**
60 13 W 1 BDDD **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
110 ft.	110 ft.	12/02/1999

Drilling Method --

Geological Material	Color	Hardness	From	To
TOP SOIL	BLACK		0	1
SAND	BROWN		1	6
ROCK, SAND, GRAVEL	VARIED		6	26
SAND & LIGHT GRAVEL	VARIED		26	41
SAND	GRAY		41	59
COBBLES	VARIED		59	63
SAND W/ ROCK	BLK/RED		63	81
FINE SAND	BLACK		81	101
SAND	GRAY		101	109
ROCK	RED/BLK		109	110

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Exploration boring

Casing Type Stainless Steel **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 83 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between
		24	83 ft. and 107 ft.

Static Water Level
23 ft. from Top of casing above LSD Date Measured 12/02/1999

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
SEALED IN 1999 (H0157344)
LOCATED BEHIND EMANUELSON; SOUTHEAST OF REC. RINK

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Bentonite from 0 to 100 ft. 9 bags

Located Minnesota Department of Health **Method** Digitization (Screen) - Map (1:12,000)
Unique Number
Verification Other, note in remarks **Date** 05/25/2005
System *UTM - Nad83, Zone15, Meters* **X:** 579644 **Y:** 5284427

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

First Bedrock
Last Strat
Aquifer Quat. Water Table Aquifer
Depth to Bedrock ft.

Well Contractor Certification
L.t.p. Enterprises, Inc. 91686
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report | **267771** | Printed 6/25/2008 HE-01205-07

STATE_02822034

2222.1077

Minnesota Unique Well No.
267776

County St. Louis
Quad Babbitt
Quad ID 317B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 06/01/2005
Update Date 06/01/2005
Received Date

Well Name BABBITT MW-SB-1-99

Township	Range	Dir	Section	Subsections	Elevation	Elevation Method
60	13	W	2	ABDA	1473 ft.	Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
103 ft.	103 ft.	12/29/1998

Drilling Method Mud Rotary

Geological Material	Color	Hardness	From	To
MEDIUM TO FINE ARKOSIC SAND			0	20
WELL SORTED FINE ARKOSIC SAND			20	40
VERY FINE SAND AND SILT			40	98
BEDROCK			98	103

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Exploration boring

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter	Weight	Hole Diameter

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
13.3 ft. from Land surface Date Measured 12/29/1998

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Department of Health
Method Digitization (Screen) - Map (1:12,000)
Unique Number
Verification Other, note in remarks
Date 06/01/2005
System *UTM - Nad83, Zone15, Meters*
X: 578369 **Y:** 5284874

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Sts Consultants Ltd M0017
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat
Aquifer
Depth to Bedrock 98 **ft.**

County Well Index Online Report | **267776** | Printed 6/25/2008 IIE-01205-07

Minnesota Unique Well No. **267777**

County St. Louis
Quad Babbitt
Quad ID 317B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 06/01/2005
Update Date 06/01/2005
Received Date

Well Name BABBITT MW-SB-2-99

Township	Range	Dir	Section	Subsections	Elevation	Elevation Method
60	13	W	2	ABAC	1473 ft.	Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
180 ft.	180 ft.	01/11/1999

Drilling Method Mud Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Exploration boring

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/ Below ft.**

Casing Diameter **Weight** **Hole Diameter**

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter **Slot/Gauze** **Length** **Set Between**

Geological Material	Color	Hardness	From	To
MEDIUM TO FINE ARKOSIC SAND			0	20
WELL SORTED FINE ARKOSIC SAND			20	40
WELL SORTED VERY FINE ARKOSIC SAND			40	60
VERY FINE SAND AND SILT			60	150
INTERBEDDED SILTY SAND AND GRAVEL			150	177
GRANITE BEDROCK			177	180

Static Water Level
14.6 ft. from Land surface Date Measured 01/11/1999

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Department of Health
Method Digitization (Screen) - Map (1:12,000)
Unique Number Verification Other, note in remarks
Date 06/01/2005
System *UTM - Nad83, Zone15, Meters*
X: 578341 **Y:** 5284967

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Sts Consultants Ltd M0017
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat
Aquifer
Depth to Bedrock 177 ft.

County Well Index Online Report **267777** Printed 6/25/2008 HE-01205-07

STATE_02822036

2222.1079

Minnesota Unique Well No.
267800

County St. Louis
Quad Babbitt
Quad ID 317B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 06/14/2005
Update Date 06/14/2005
Received Date

Well Name BABBITT MW-4A

Township	Range	Dir	Section	Subsections	Elevation
60	13	W	1	BBDABB	1479 ft.

Elevation Method Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
70 ft.	70 ft.	

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Monitor well

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter	Weight	Hole Diameter

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To

Static Water Level
31.4 ft. from No Information Date Measured 01/31/1997

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Department of Health
Method Digitization (Screen) - Map (1:12,000)
Unique Number
Verification Other, note in remarks
Date 06/14/2005
System *UTM - Nad83, Zone15, Meters*
X: 579149 **Y:** 5284908

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

First Bedrock **Last Strat**	**Aquifer** **Depth to Bedrock ft.**	**Well Contractor Certification** Nova Environmental Services, Inc. M0139 License Business Name Lic. Or Reg. No. Name of Driller	
County Well Index Online Report	**267800**		Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.
267801

County St. Louis
Quad Babbitt
Quad ID 317B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 06/14/2005
Update Date 06/14/2005
Received Date

Well Name BABBITT MW-5

Township	Range	Dir	Section	Subsections	Elevation
60	13	W	1	BBDAAB	1476 ft.

Elevation Method Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
22.5 ft.	22.5 ft.	

Drilling Method --

Geological Material	Color	Hardness	From	To

Drilling Fluid
--

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Monitor well

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter	Weight	Hole Diameter

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
18.5 ft. from No Information Date Measured 01/31/1997

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Department of Health
Method Digitization (Screen) - Map (1:12,000)
Unique Number
Verification Other, note in remarks
Date 06/14/2005
System *UTM - Nad83, Zone15, Meters*
X: 579197 **Y:** 5284889

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

STATE_02822039

First Bedrock **Last Strat**	**Aquifer** **Depth to Bedrock ft.**	**Well Contractor Certification** Nova Environmental Services, Inc. M0139 License Business Name Lic. Or Reg. No. Name of Driller	
County Well Index Online Report	**267801**		Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.
267861

County St. Louis
Quad Babbitt
Quad ID 317B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 08/05/2005
Update Date 08/05/2005
Received Date

Well Name GEORGE SENHOUSER
Township Range Dir Section Subsections Elevation 1480 **ft.**
60 13 W 2 ADBDDA **Elevation Method** Surveyed

Well Depth ft. **Depth Completed** ft. **Date Well Completed**
Drilling Method Sand Point

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter **Weight** **Hole Diameter**

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter **Slot/Gauze** **Length** **Set Between**

Geological Material **Color** **Hardness** **From** **To**

Static Water Level
7.6 ft. from No Information Date Measured 08/11/1997

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
LOCATION PROVIDED BY NORTHEAST TECHNICAL SERVICES IN AUGUST, 1997 REPORT

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Department of Health
Method Digitization (Screen) - Map (1:24,000)
Unique Number
Verification Other, note in remarks
Date 08/05/2005
System *UTM - Nad83, Zone15, Meters*
X: 578650 **Y:** 5284559

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat
Aquifer
Depth to Bedrock **ft.**

STATE_02822041

County Well Index Online Report	267861	Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.
267862

County St. Louis
Quad Babbitt
Quad ID 317B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 08/05/2005
Update Date 08/05/2005
Received Date

Well Name BABBITT SKATING RINK
Township Range Dir Section Subsections Elevation 1489 **ft.**
60 13 W 1 BDDADA **Elevation Method** Surveyed

Well Depth ft. **Depth Completed** ft. **Date Well Completed**
Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter	Weight	Hole Diameter

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To

Static Water Level
20.7 ft. from No Information Date Measured 07/17/1997

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Department of Health
Method Digitization (Screen) - Map (1:24,000)

Unique Number
Verification Other, note in remarks
Date 08/05/2005

System *UTM - Nad83, Zone15, Meters*
X: 579659 **Y:** 5284482

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification

First Bedrock
Last Strat
Aquifer
Depth to Bedrock **ft.**

License Business Name Lic. Or Reg. No. Name of Driller

STATE_02822043

County Well Index Online Report	267862	Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.
267863

County St. Louis
Quad Babbitt
Quad ID 317B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 08/05/2005
Update Date 08/05/2005
Received Date

Well Name BABBITT SOFTBALL FIELD
Township Range Dir Section Subsections Elevation 1482 **ft.**
60 13 W 2 BAACBB **Elevation Method** Surveyed

Well Depth ft. **Depth Completed** ft. **Date Well Completed**
Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter	Weight	Hole Diameter

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To

Static Water Level
10.4 ft. from No Information Date Measured 07/17/1997

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Department of Health
Method Digitization (Screen) - Map (1:24,000)

Unique Number
Verification Other, note in remarks
Date 08/05/2005

System *UTM - Nad83, Zone15, Meters*
X: 577850 **Y:** 5285049

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification

First Bedrock
Last Strat
Aquifer
Depth to Bedrock **ft.**

License Business Name Lic. Or Reg. No. Name of Driller

STATE_02822045

County Well Index Online Report	267863	Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.
567889

County St. Louis
Quad Babbitt
Quad ID 317B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 05/24/2005
Update Date 04/17/2008
Received Date 05/30/1996

Well Name BABBITT MW-1
Township Range Dir Section Subsections Elevation 1476 **ft.**
60 13 W 1 BBDA **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
21 **ft.**	21 **ft.**	05/22/1996

Drilling Method Hand Auger

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Monitor well

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
2 in. to ft.	lbs./ft.	2.25 in. to 21 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** plastic

Diameter	Slot/Gauze	Length	Set Between
		10	11 ft. and 21 ft.

Well Address
MN

Geological Material	Color	Hardness	From	To
SAND FINE TO MEDIUM	TAN	MEDIUM	5	12
WG FINE GRAINED SAND		MEDIUM	12	21

Static Water Level
17.9 ft. from No Information Date Measured 06/25/1996

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☑ At-grade (Environmental Wells and Borings ONLY)

REMARKS
MW 1 FOR CITY OF BABBITT
ENVIRONMENTAL TROUBLESHOOTERS, INC: SB-1

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: CONCRETE	from 0 to 2 ft.	2 bags
Grout Material: Neat Cement	from 2 to 8 ft.	2 bags
Grout Material: Bentonite	from 8 to 10 ft.	1 bags

Located Minnesota Department of Health
Method Digitization (Screen) - Map (1:12,000)
Unique Number Verification Other, note in remarks
Date 05/27/2005
System *UTM - Nad83, Zone15, Meters*
X: 579161 **Y:** 5284890

Nearest Known Source of Contamination
40 feet S direction Other type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☑ Yes ☐ No

Well Contractor Certification
Earth Burners, Inc. M0142 PAUL KILPELA
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Unknown deposit type
Aquifer Quat. Water Table Aquifer
Depth to Bedrock ft.

County Well Index Online Report

567889

Printed 6/25/2008
HE-01205-07

STATE_02822047

Minnesota Unique Well No.
567890

County St. Louis
Quad Babbitt
Quad ID 317B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 05/24/2005
Update Date 04/17/2008
Received Date 05/22/1996

Well Name BABBITT MW-2

Township	Range	Dir	Section	Subsections	Elevation	Elevation Method
60	13	W	1	BBDB	1479 ft.	Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
20.6 ft.	20.6 ft.	05/22/1996

Drilling Method Hand Auger

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Monitor well

Casing Type Plastic **Joint** Threaded **Drive Shoe?** ☐ Yes ☑ No **Above/ Below** ft.

Casing Diameter	Weight	Hole Diameter
2 in. to 20 ft.	lbs./ft.	8.25 in. to 20 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** plastic

Diameter	Slot/Gauze	Length	Set Between
		10	10 ft. and 20 ft.

Geological Material	Color	Hardness	From	To
SAND MEDIUM TO FINE	ORN/BRN	MEDIUM	4	10
SAND VERY COARSE	BROWN	MEDIUM	10	20

Static Water Level
16.8 ft. from No Information Date Measured 06/25/1990

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☑ At-grade (Environmental Wells and Borings ONLY)

REMARKS
MW - 2 FOR CITY OF BABBITT
ENVIRONMENTAL TROUBLESHOOTERS, INC: SB-3

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Well known to be not grouted	from 2 to 5 ft.	2 bags
Grout Material: Bentonite	from 5 to 7 ft.	1 bags
Grout Material: CONCRETE	from to 2 ft.	2 bags

Nearest Known Source of Contamination
15 feet E direction Other type
Well disinfected upon completion? ☐ Yes ☐ No

Located Minnesota Department of Health
Method Digitization (Screen) - Map (1:12,000)
Unique Number Verification Other, note in remarks
Date 05/27/2005
System *UTM - Nad83, Zone15, Meters*
X: 579145 **Y:** 5284882

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☑ Yes ☐ No

Well Contractor Certification
Earth Burners, Inc. M0142 PAUL KILPELA
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Unknown deposit type
Aquifer Quat. Water Table Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **567890** | Printed 6/25/2008 IIE-01205-07

STATE_02822048

2222.1091

Minnesota Unique Well No.
665904

County St. Louis
Quad Babbitt
Quad ID 317B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 07/08/2002
Update Date 03/11/2005
Received Date

Well Name BUROW, GARY

Township	Range	Dir	Section	Subsections	Elevation	Elevation Method
61	13	W	35	CCCDCB	1476 ft.	Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
30 ft.	30 ft.	07/17/2001

Drilling Method Multiple methods used

Drilling Fluid Water

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
6 in. to 30 ft.	20 lbs./ft.	6 in. to 30 ft.

Open Hole from ft. to ft.

Screen YES **Make** **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	10	4	27 ft. and 30 ft.

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model SNAPPY
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
2681 70 HY
BABBITT MN 55706

Geological Material	Color	Hardness	From	To
SAND	BROWN		0	27
GRAVEL	BROWN		27	30

REMARKS
DRILLING METHOD: AIR/DRIVEN/ROTARY.
CASING: T/W.

Located Minnesota Department of Health **Method** Digitization (Screen) - Map (1:24,000)
Unique Number Verification N/A **Date** 05/21/2004
System *UTM - Nad83, Zone15, Meters* **X:** 577352 **Y:** 5285254

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Well grouted, type unknown from to ft.

Nearest Known Source of Contamination
140 feet N direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 08/08/2001
Manufacturer's name AERMOTOR Model number 10-50 HP 0.5 Volts 230
Length of drop Pipe 18 ft. Capacity 10 g.p.m Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
Kolstad-olson 69554 MAJESKI, T.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Gravel (+larger)-brown
Aquifer Quat. Water Table Aquifer
Depth to Bedrock ft.

County Well Index Online Report **665904** Printed 6/25/2008
HE-01205-07

STATE_02822049

2222.1092

Minnesota Unique Well No.
567891

County St. Louis
Quad Babbitt
Quad ID 317B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 05/24/2005
Update Date 06/14/2005
Received Date 05/22/1996

Well Name BABBITT MW-3

Township	Range	Dir	Section	Subsections	Elevation
60	13	W	1	BBDA	1476 ft.

Elevation Method Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
21 ft.	21 ft.	05/22/1996

Drilling Method Hand Auger

Geological Material	Color	Hardness	From	To
SANDY GRAVEL	BROWN	MEDIUM	4	10
GRAVEL	LT. BRN	MEDIUM	10	15
SAND, FINE GRAINED	BROWN	MEDIUM	15	21

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Monitor well

Casing Type Plastic **Joint** Threaded **Drive Shoe?** ☐ Yes ☑ No **Above/Below** ft.

Casing Diameter	Weight	Hole Diameter
2 in. to 21 ft.	lbs./ft.	8.25 in. to 21 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** plastic

Diameter	Slot/Gauze	Length	Set Between
2	10	10	11 ft. and 21 ft.

Static Water Level
17.7 ft. from No Information Date Measured 06/25/1996

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☑ At-grade (Environmental Wells and Borings ONLY)

REMARKS
MW-3 FOR CITY OF BABBITT
ENVIRONMENTAL TROUBLESHOOTERS, INC.: SB-4

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Well known to be not grouted	from 2 to 8 ft.	2 bags
Grout Material: Bentonite	from 8 to 10 ft.	1 bags
Grout Material: CONCRETE	from to 2 ft.	2 bags

Located Minnesota Department of Health **Method** Digitization (Screen) - Map (1:12,000)

Unique Number Verification Other, note in remarks **Date** 05/27/2005

System *UTM - Nad83, Zone15, Meters* **X:** 579180 **Y:** 5284888

Nearest Known Source of Contamination
20 feet South West direction Other type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☑ Yes ☐ No

Well Contractor Certification

License Business Name	Lic. Or Reg. No.	Name of Driller
Earth Burners, Inc.	M0142	PAUL KILPELA

First Bedrock **Last Strat** **Aquifer** Quat. Water Table Aquifer **Depth to Bedrock** ft.

STATE_02822050

2222.1093

County Well Index Online Report	567891	Printed 6/25/2008 HE-01205-07

SITE SUMMARY

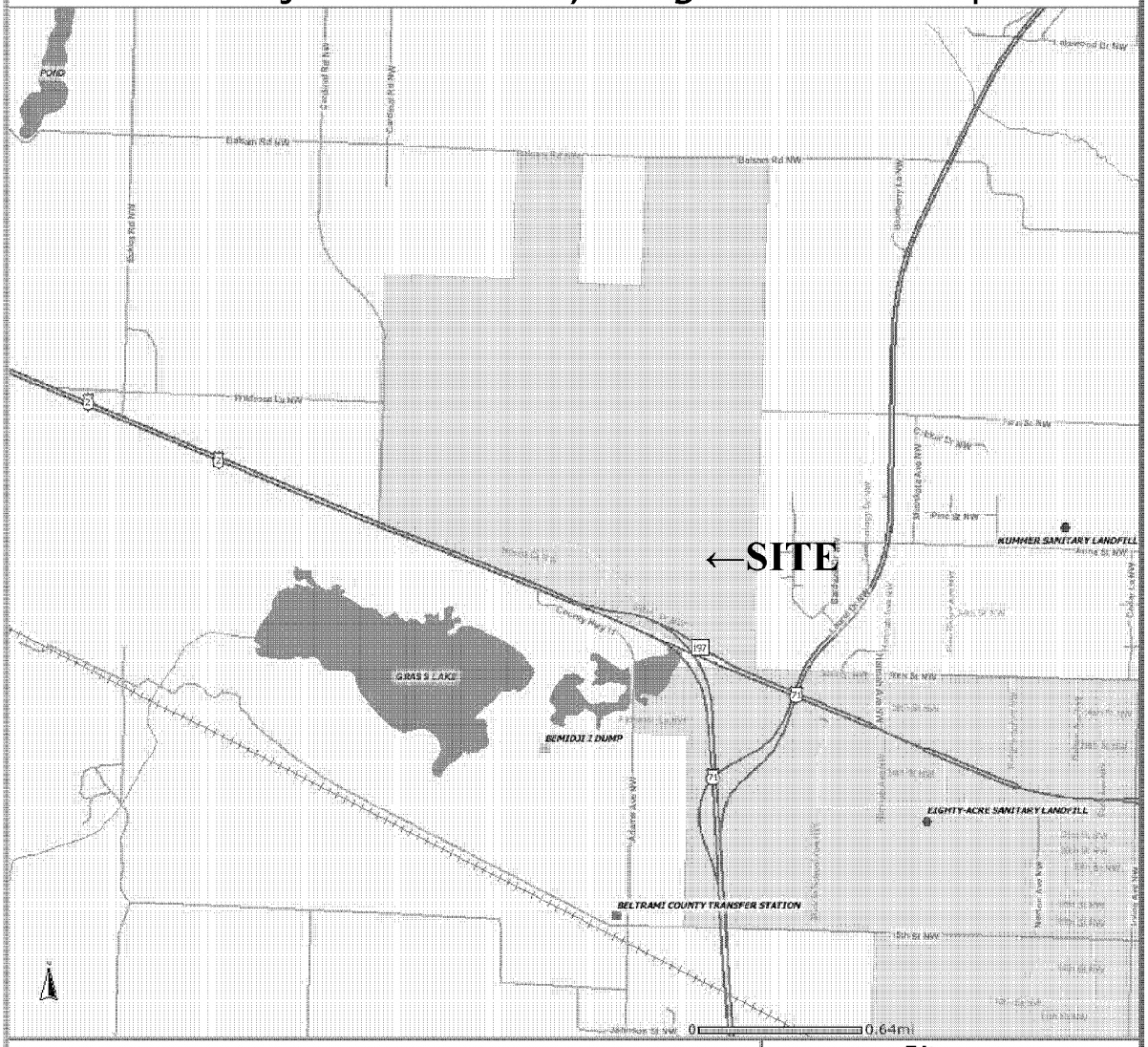
Site Name:	Bemidji Airport Training Site
Fire Department:	Bemidji Fire Department 5th Street & America Avenue Bemidji, MN 56601
Site Contact:	Dick Sathers, Fire Chief 218-751-8001

Training Location:	Class B foam training at Bemidji Airport (Class A foam training is used at the Railroad Street site)
Type of foam used in training:	3M Light Water AFFF Silv-ex Class A
Foam training frequency:	Annually
Foam use per training event:	5 to 10 gallons
Spent foam destination:	Ground
Annual foam use:	AFFF: approximately 5 gallons Class A : 15 gallons
Nearest surface water:	Eckles Lake located approximately 1/4 mile southwest
Nearest wetland:	Adjacent north of the air field and approximately 1/4 mile southwest
Nearest water well:	on-site at airport
Nearest Wellhead Protection Area:	Class B training site located within Wellhead Protection Area
SITE RANKING:	**26**

BEMIDJI AIRPORT CWI Well Map



Bemidji *What's In My Neighborhood* Map



Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

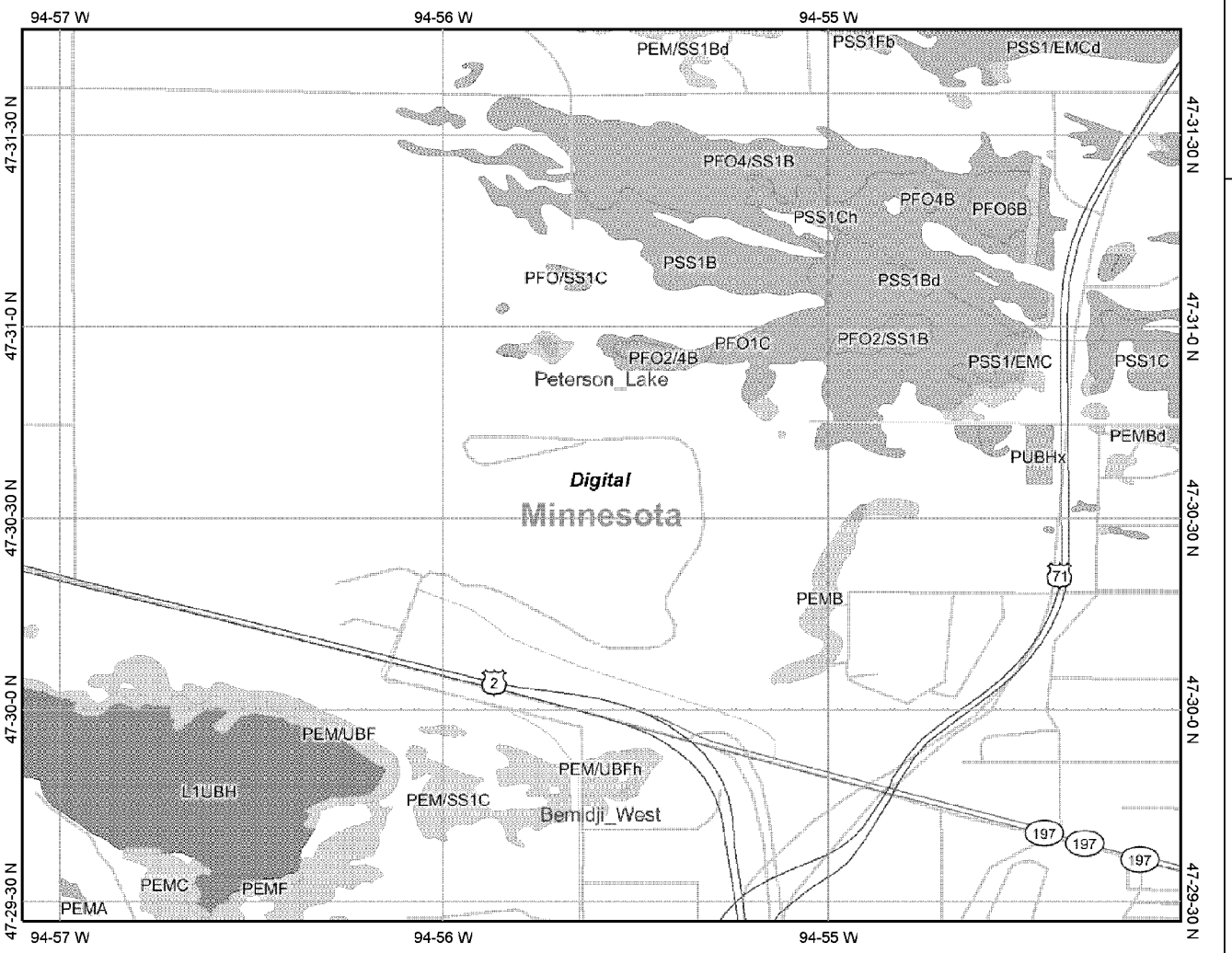
Minnesota Pollution Control Agency

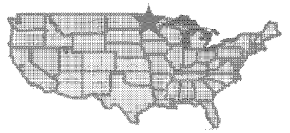
Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dump
- NPRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

-

Bemidji Airport





Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:30,142

Map center: 47° 30' 37" N, 94° 55' 35" W

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

2222.1098

STATE_02822055

Minnesota Unique Well No.
243337

County Beltrami
Quad Peterson Lake
Quad ID 329C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 07/25/2002
Update Date 07/25/2002
Received Date

Well Name CITY OF BEMIDJI

Township	Range	Dir	Section	Subsections	Elevation
147	33	W	30	CCCCCD	1381 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
79 ft.	ft.	05/13/1986

Drilling Method Power Auger

Geological Material	Color	Hardness	From	To
FILL - SANDY, MEDIUM	BLACK		0	2
SAND MEDIUM	RED/BRN		2	5
SAND MED -- COARSE SILTY	DK. BRN		5	10
SAND, COARSE, CLEAN, SILTY	BROWN		10	20
SAND, VC, CLEAN W/ GRAVEL	BROWN		20	30
SAND, C, SILTY	GRY/BRN		30	45
SAND, MED, SILTY	GRAY		45	50
SAND, CLAYEY MEDIUM	GRAY		50	60
SAND, COARSE	GRY/BRN		60	79

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Test well

Casing Type Galvanized **Joint** Threaded **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter

Open Hole from ft. to ft.

Screen YES **Make** BK- SLOTTED **Type** plastic

Diameter	Slot/Gauze	Length	Set Between
2	10	2	ft. and ft.

Static Water Level
12.4 ft. from No Information Date Measured 05/13/1986

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located United States Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Information from owner
Date 03/18/2003
System *UTM - Nad83, Zone15, Meters*
X: 354879 **Y:** 5263907

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
United States Geological Survey USGS
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat
Aquifer
Depth to Bedrock ft.

County Well Index Online Report

243337

Printed 6/25/2008
HE-01205-07

STATE_02822056

2222.1099

Minnesota Unique Well No.
243344

County Beltrami
Quad Peterson Lake
Quad ID 329C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 07/25/2002
Update Date 03/18/2003
Received Date

Well Name CITY OF BEMIDJI

Township	Range	Dir	Section	Subsections	Elevation	Elevation Method
147	33	W	32	CBBBBD	1381 ft.	7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
27 ft.	27 ft.	05/13/1986

Drilling Method Power Auger

Geological Material	Color	Hardness	From	To
SAND, MED- CRS, CLEAN	RED/BRN		0	15
SAND, CRS, CLEAN	BROWN		15	27

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Test well

Casing Type Galvanized **Joint** Unknown **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 1.5 ft.

Casing Diameter	Weight	Hole Diameter
2 in. to 22 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** BK **Type** plastic

Diameter	Slot/Gauze	Length	Set Between
2	10	2	ft. and ft.

Static Water Level
12 ft. from No Information Date Measured 05/13/1986

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Located United States Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Information from owner
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 356479 **Y:** 5263037

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Neat Cement from 0 to 12 ft.
Grout Material: Bentonite from to ft.

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
United States Geological Survey USGS
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat
Aquifer
Depth to Bedrock ft.

County Well Index Online Report

243344

Printed 6/25/2008
HE-01205-07

STATE_02822057

2222.1100

Minnesota Unique Well No.
243345

County Beltrami
Quad Bemidji West
Quad ID 302B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 07/25/2002
Update Date 07/25/2002
Received Date

Well Name

Township Range Dir Section Subsections Elevation 1378 **ft.**

147 33 W 32 CCCCDD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
37 ft.	14 ft.	05/14/1986

Drilling Method Power Auger

Geological Material	Color	Hardness	From	To
TOP SOIL, SAND	DARK		0	2
SAND, CLEAN, CRS	DK. BRN		2	5
SAND, CLEAN, CRS	DK. BRN		5	10
SAND CLAY CRS	DK. BRN		10	15
SAND, V.CRS CLEAN	DK. BRN		15	20
SAND, V.CRS CLEAN	DK. BRN		20	25
SAND, SILTY W CLAY	BROWN		25	30
SAND, C. CRS, CLEAN	BROWN		30	35
SAND, CLAYEY, SILTY	BROWN		35	37

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Test well

Casing Type Galvanized **Joint** Unknown **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
2 in. to 12.4 ft.	lbs./ft.	5.3 in. to 37 ft.

Open Hole from ft. to ft.

Screen YES **Make** BK **Type** plastic

Diameter	Slot/Gauze	Length	Set Between
	10		12.4 ft. and 14.4 ft.

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Bentonite from 0 to 12.4 ft. 2

Located United States Geological Survey **Method** Digitization (Screen) - Map (1:24,000)

Unique Number
Verification Information from owner **Date** N/A

System *UTM - Nad83, Zone15, Meters* **X:** 356492 **Y:** 5262257

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☑ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

First Bedrock **Aquifer**
Last Strat **Depth to Bedrock ft.**

Well Contractor Certification
United States Geological Survey USGS STARK
License Business Name Lic. Or Reg. No. Name of Driller

STATE_02822058

2222.1101

County Well Index Online Report	243345	Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.
547514

County Beltrami
Quad Peterson Lake
Quad ID 329C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 01/08/1999
Update Date 06/15/2005
Received Date

Well Name BEMIDJI 1A
Township Range Dir Section Subsections Elevation 1380 **ft.**
147 33 W 31 DAA **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
163 **ft.**	161 **ft.**	09/02/1994

Drilling Method Cable Tool

Well Address
BEMIDJI MN 56601

Geological Material	Color	Hardness	From	To
TOP SOIL & FILL			0	3
FINE SAND	BROWN		3	8
SAND & GRAVEL	BROWN		8	17
SAND	LT. BRN		17	29
SANDY CLAY & GRAVEL MIX	LT. BRN		29	42
SANDY CLAY & COARSE GRAVEL MIX	GRAY		42	47
SAND & GRAVEL W/THIN SANDY CLAY	GRAY		47	57
SANDY CLAY & SAND & GRAVEL	BROWN		57	60
SAND & GRAVEL	BROWN		60	65
VERY COARSE GRAVEL & COBBLES	BROWN		65	79
COARSE GRAVEL (DIRTY)	BROWN		79	92
COARSE SAND & GRAVEL	BROWN		92	97
SAND	BROWN	MEDIUM	97	102
COARSE GRAVEL W/FINE & MED SAND	BROWN		102	107
COARSE GRAVEL W/MED SAND	BROWN		107	110
SAND	BROWN	MEDIUM	110	112
VERY FINE SAND	BROWN		112	118
SAND & GRAVEL	BROWN		118	122
COARSE SAND & COARSE GRAVEL	BROWN		122	127
COARSE SAND & GRAVEL	BROWN		127	129
COARSE SAND & COARSE GRAVEL	BROWN		129	132
COARSE SAND & GRAVEL	BROWN		132	137
COARSE SAND & GRAVEL	GRAY		137	140
FINE SAND	GRAY		140	145
SAND & COARSE GRAVEL	GRAY		145	148
SAND & COBBLES	GRAY		148	151
SAND & GRAVEL W/COBBLES & SILT	GRAY		151	157
COARSE SAND & SMALL COBBLES	GRAY		157	163
CLAY	GRAY		163	163

Drilling Fluid Water

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
16 in. to 121 ft.	lbs./ft.	
24 in. to 122 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
12	70		ft. and 162 ft.
12	40		122 ft. and ft.

Static Water Level
18 ft. from Land surface Date Measured 09/02/1994

PUMPING LEVEL (below land surface)
61 ft. after 6 hrs. pumping 1500 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
SOUTH WELL NO.1.
WELL SEALED 11-04-2004 BY 91686
ORIGINAL USE PC - COMMUNITY SUPPLY

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Neat Cement from 0 to 121 ft. 164 bags

Located Minnesota Department of Health
Method Digitization (Screen) - Map (1:12,000)
Unique Number Verification Information from owner
Date 02/23/2000
System *UTM - Nad83, Zone15, Meters*
X: 355377 **Y:** 5263125

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 09/02/1994
Manufacturer's name GOULDS Model number 14RJL0 HP 75 Volts 450
Length of drop Pipe _ft. Capacity 1500 g.p.m Type Turbine Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Traut M.j. Well Co. 71536 TRAUT, T.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Clay-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report

547514

Printed 6/25/2008
HE-01205-07

STATE_02822060

2222.1103

Minnesota Unique Well No.
547515

County Beltrami
Quad Peterson Lake
Quad ID 329C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 01/08/1999
Update Date 05/06/2005
Received Date

Well Name BEMIDJI 2
Township Range Dir Section Subsections Elevation 1379 **ft.**
147 33 W 31 BDABDB **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
148 ft.	148 ft.	10/16/1994

Drilling Method Cable Tool

Well Address
BEMIDJI MN 56601

Geological Material	Color	Hardness	From	To
FILL	BROWN		0	6
SAND	BROWN	MEDIUM	6	24
SAND & GRAVEL	BROWN	MEDIUM	24	27
SAND	BROWN		27	30
SILTY CLAY	BROWN		30	32
MED SAND & COARSE GRAVEL	BROWN		32	35
CLAY & GRAVEL	GRAY		35	52
SAND	BROWN	MEDIUM	52	65
COARSE GRAVEL	BROWN		65	70
MED SAND & COARSE GRAVEL	BROWN		70	73
SAND	BROWN	MEDIUM	73	75
COARSE SAND & MED GRAVEL	BROWN		75	87
COARSE SAND & MED. GRVL W/LG ROCKS	GRAY		87	90
CRS. SAND & CRS. GRVL W/LG ROCKS	GRAY		90	98
VERY COARSE GRAVEL	GRAY		98	102
MED SAND & COARSE GRAVEL	GRAY		102	104
COARSE SAND & COARSE GRAVEL	GRAY		104	107
SAND & COARSE GRAVEL	GRAY		107	109
VERY COARSE SAND & VERY CRS. GRVL	GRAY		109	114
MED SAND & CRS. GRAVEL	GRAY		114	117
VRY CRS, SND & VRY CRS. GRVL W/RKS	GRAY		117	122
VERY COARSE GRVL W/MED SAND	GRAY		122	127
VERY COARSE GRVL W/MED SAND	GRY/BRN		127	130
COARSE GRAVEL & COARSE SAND	GRAY		130	132
FINE SAND & MED SAND W/GRAVEL	GRAY		132	138
MED SAND W/GRAVEL	GRAY		138	145
FINE SAND	GRAY		145	148

REMARKS
NORTH WELL NO.2.
WELL SEALED 2-20-2003, BY NORTH STAR DRILLING H-198594.
WELL SEALED 02-20-2003 BY 49588
ORIGINAL USE PC - COMMUNITY SUPPLY

Located Minnesota Department of Health **Method** GPS SA On (averaged)
Unique Number Verification Information from owner **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 355475 **Y:** 5263433

First Bedrock
Last Strat Sand-gray
Aquifer Quat. Water Table Aquifer
Depth to Bedrock ft.

Drilling Fluid Water

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** ft.

Casing Diameter	Weight	Hole Diameter
24 in. to 98 ft.	lbs./ft.	
16 in. to 104 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
12	40	40	104 ft. and 144 ft.

Static Water Level
18 ft. from Land surface Date Measured 10/16/1994

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Neat Cement from 0 to 91 ft. 143 bags

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity __g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☑ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Traut M.j. Well Co. 71536 TRAUT, T.
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report

547515

Printed 6/25/2008
HE-01205-07

STATE_02822061

Minnesota Unique Well No.
549969

County Beltrami
Quad Peterson Lake
Quad ID 329C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 01/01/1980
Update Date 01/03/2005
Received Date

Well Name LOREN, ROBERT
Township Range Dir Section Subsections Elevation 1380 **ft.**

147	33	W	31	ABD

Elevation Method Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
108 **ft.**	108 **ft.**	03/24/1995

Drilling Method Non-specified Rotary

Geological Material	Color	Hardness	From	To
SAND	BROWN	SOFT	0	49
CLAY	GRAY	MEDIUM	49	67
SAND	GRAY	SOFT	67	72
CLAY AND SAND	GRAY	MEDIUM	72	93
SAND	YELLOW	MEDIUM	93	108

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** Glued **Drive Shoe?** ☑ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 96 ft.	1.87 lbs./ft.	8.3 in. to 30 ft.
		6.25 in. to 108 ft.

Open Hole from ft. to ft.

Screen YES **Make** COOK **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	12	12	96 ft. and 108 ft.

Static Water Level
12 ft. from Land surface Date Measured 03/24/1995

PUMPING LEVEL (below land surface)
108 ft. after 120 hrs. pumping 75 g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Located Beltrami Cty. Soil & Water Cons. Dist.
Method GPS SA On (averaged)
Unique Number Verification Information from owner
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 356185 **Y:** 5262812

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement from 7 to 30 ft. 4 bags

Nearest Known Source of Contamination
55 feet W direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 03/24/1995
Manufacturer's name GOULD Model number 48LE30
HP 3 Volts 230
Length of drop Pipe 80 ft. Capacity 70 g.p.m
Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

STATE_02822062

2222.1105

First Bedrock **Last Strat**	**Aquifer** **Depth to Bedrock ft.**	**Well Contractor Certification** Bradseth Well Co. 04527 BRADSETH, C. License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	**549969**	Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.
564264

County Beltrami
Quad Peterson Lake
Quad ID 329C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 07/10/1995
Update Date 05/06/2005
Received Date

Well Name BEMIDJI POTATO
Township Range Dir Section Subsections Elevation 1386 **ft.**
147 34 W 25 BDAD **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
119 **ft.**	119 **ft.**	05/08/1995

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
12 in. to 99 ft.	50 lbs./ft.	18 in. to 119 ft.

Open Hole from ft. to ft.

Screen YES **Make** COOK **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
12	70	20	99 ft. and 119 ft.

Geological Material	Color	Hardness	From	To
SAND	BROWN	SOFT	0	28
SANDY CLAY	GRAY	MEDIUM	28	38
SANDY CLAY	BROWN	MEDIUM	38	53
SAND	BROWN	MEDIUM	53	78
FINE SAND	BROWN	MEDIUM	78	95
SAND	BROWN	MEDIUM	95	100
SAND	GRAY	MEDIUM	100	119

Static Water Level
11 ft. from Land surface Date Measured 05/08/1995

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer TOPHEAD Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
WELL SEALED 04-20-2001 BY 49588
ORIGINAL USE IR - IRRIGATION

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Bentonite from 0 to 30 ft. 0

Located Beltrami Cty. Soil & Water Cons. Dist.
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Tag on well
Date 02/07/2005
System *UTM - Nad83, Zone15, Meters*
X: 354075 **Y:** 5264977

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Traut S.m. Well Co. 21535 NEYENS, J.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat
Aquifer
Depth to Bedrock ft.

County Well Index Online Report **564264** Printed 6/25/2008 HE-01205-07

STATE_02822064

2222.1107

Minnesota Unique Well No.
564764

County Beltrami
Quad Bemidji West
Quad ID 302B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 12/20/1995
Update Date 01/06/2005
Received Date

Well Name PLATT, RODNEY

Township	Range	Dir	Section	Subsections	Elevation
146	34	W	2	AAD	1380 ft.

Elevation Method Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
64 ft.	64 ft.	06/10/1995

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below** ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 60 ft.	lbs./ft.	6.75 in. to 64 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	12	4	61 ft. and 64 ft.

Well Address
CINDY LA
BEMIDJI MN 56601

Geological Material	Color	Hardness	From	To
SAND	BROWN	SOFT	0	64

Static Water Level
15 ft. from Land surface Date Measured 06/10/1995

PUMPING LEVEL (below land surface)
50 ft. after 60 hrs. pumping 10 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Bentonite from 8 to 30 ft. 2 bags

Located Beltrami Cty. Soil & Water Cons. Dist.
Method GPS SA On (averaged)
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 353102 **Y:** 5261799

Nearest Known Source of Contamination
50 feet North East direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

STATE_02822065

2222.1108

First Bedrock **Last Strat**	**Aquifer** **Depth to Bedrock ft.**	**Well Contractor Certification** Aqua Well Drilling 04463 PLATT, R. License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	**564764**	Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.
579729

County Beltrami
Quad Bemidji West
Quad ID 302B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 02/25/1997
Update Date 05/05/2005
Received Date

Well Name JOHNSON, BUCK
Township Range Dir Section Subsections Elevation 1380 **ft.**

146	34	W	2	ADAB	**Elevation Method**	Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	**Depth Completed**	**Date Well Completed**
47 **ft.**	47 **ft.**	08/19/1996

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below ft.**

Casing Diameter	**Weight**	**Hole Diameter**
4 in. to 43 ft.	lbs./ft.	6.75 in. to 47 ft.

Open Hole from ft. to ft.

Screen YES **Make** WESCO **Type** stainless steel

Diameter	**Slot/Gauze**	**Length**	**Set Between**
2	12	4	43 ft. and 47 ft.

Well Address
RR 2 BOX 45
BEMIDJI MN 56601

Geological Material	Color	Hardness	From	To
SAND	BROWN	SOFT	0	7
SAND	GRAY	SOFT	7	18
CLAY	GRAY	SOFT	18	31
SAND AND CLAY	GRAY	SOFT	31	40
SAND	GRAY	SOFT	40	47

Static Water Level
15 ft. from Land surface Date Measured 08/19/1996

PUMPING LEVEL (below land surface)
25 ft. after 60 hrs. pumping 30 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Bentonite from 8 to 30 ft. 2 bags

Located Beltrami Cty. Soil & Water Cons. Dist.
Method Digitization (Screen) - Map (1:24,000)

Unique Number Verification N/A
Date 05/05/2005

System *UTM - Nad83, Zone15, Meters*
X: 353030 **Y:** 5261878

Nearest Known Source of Contamination
100 feet E direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

STATE_02822067

2222.1110

First Bedrock **Last Strat**	**Aquifer** **Depth to Bedrock ft.**	**Well Contractor Certification** Aqua Well Drilling 04463 CESOLINI, C. License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	**579729**	Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.
590872

County Beltrami
Quad Peterson Lake
Quad ID 329C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/17/1997
Update Date 05/06/2005
Received Date

Well Name BEMIDJI TW.
Township Range Dir Section Subsections Elevation 1385 **ft.**
147 33 W 31 BDCCBB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
172 **ft.**	167 **ft.**	12/06/1996

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☐ Yes ☑ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
12 in. to 122 ft.	49.56 lbs./ft.	17.5 in. to 170 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
12	60		ft. and 167 ft.
12	45		122 ft. and ft.

Static Water Level
16 ft. from Land surface Date Measured 12/06/1996

PUMPING LEVEL (below land surface)
82.7 ft. after 24 hrs. pumping 1330 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
BEMIDJI MN 56601

Geological Material	Color	Hardness	From	To
TOP SOIL	BLACK		0	1
SAND-FINE	BROWN		1	32
SANDY CLAY	GRAY		32	34
SANDY CLAY	BROWN		34	38
SANDY CLAY	GRAY		38	47
SAND-FINE	BROWN		47	52
SANDY CLAY	GRAY		52	67
SAND & GRAVEL	BROWN		67	122
SAND & GRAVEL	VARIED		122	168
CLAY	GRAY		168	172

REMARKS
TEST WELL PULLED & GROUTED.
WELL SEALED 12-06-1996 BY 91686
ORIGINAL USE TW - TEST WELL

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Bentonite from 0 to 122 ft. 12 bags

Located Minnesota Department of Health **Method** Digitization (Screen) - Map (1:24,000)
Unique Number Verification Other, note in remarks **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 355234 **Y:** 5263193

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
L.t.p. Enterprises, Inc. 91686 SACAZAR, B.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Clay-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report

590872

Printed 6/25/2008
HE-01205-07

STATE_02822069

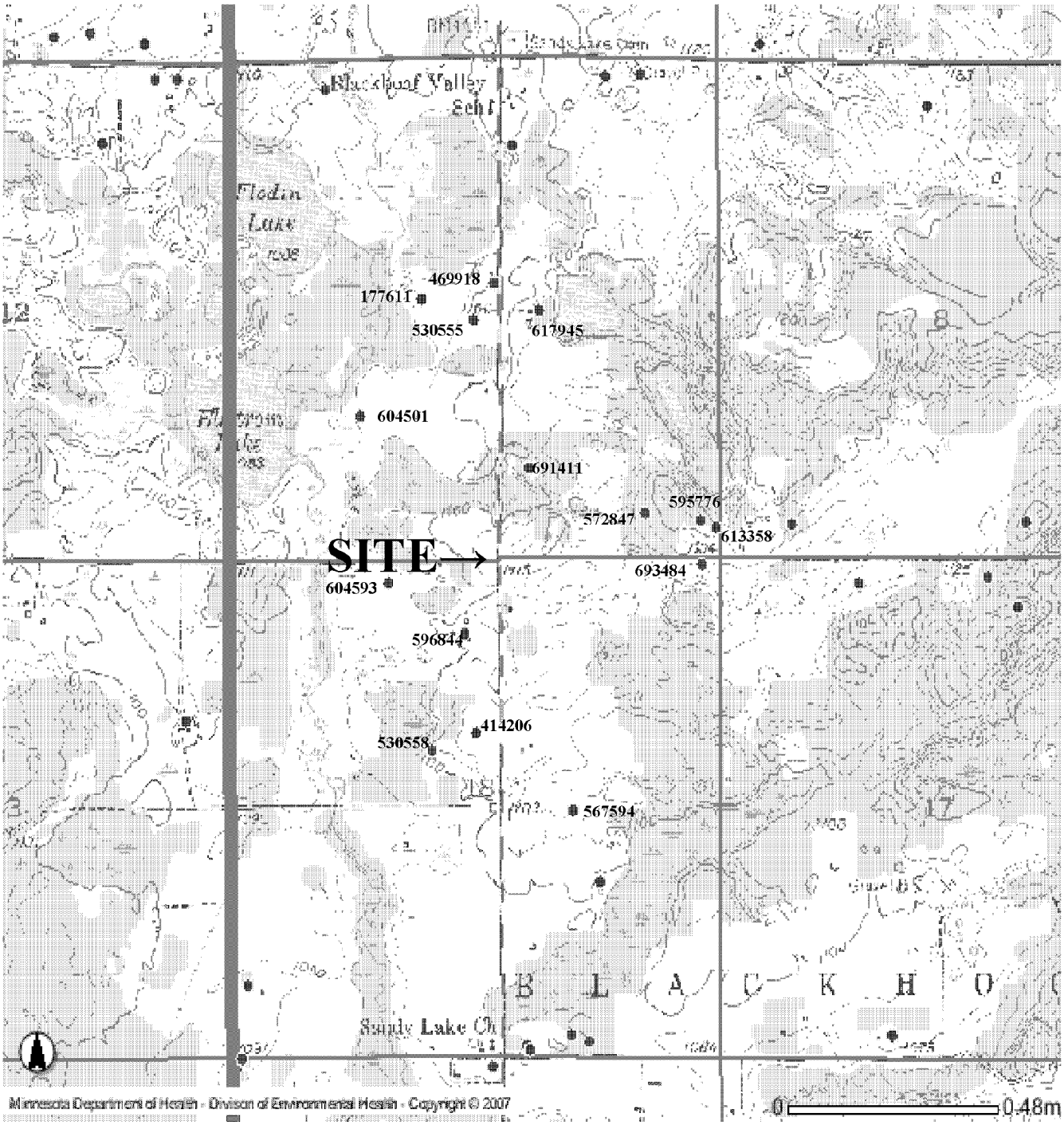
2222.1112

SITE SUMMARY

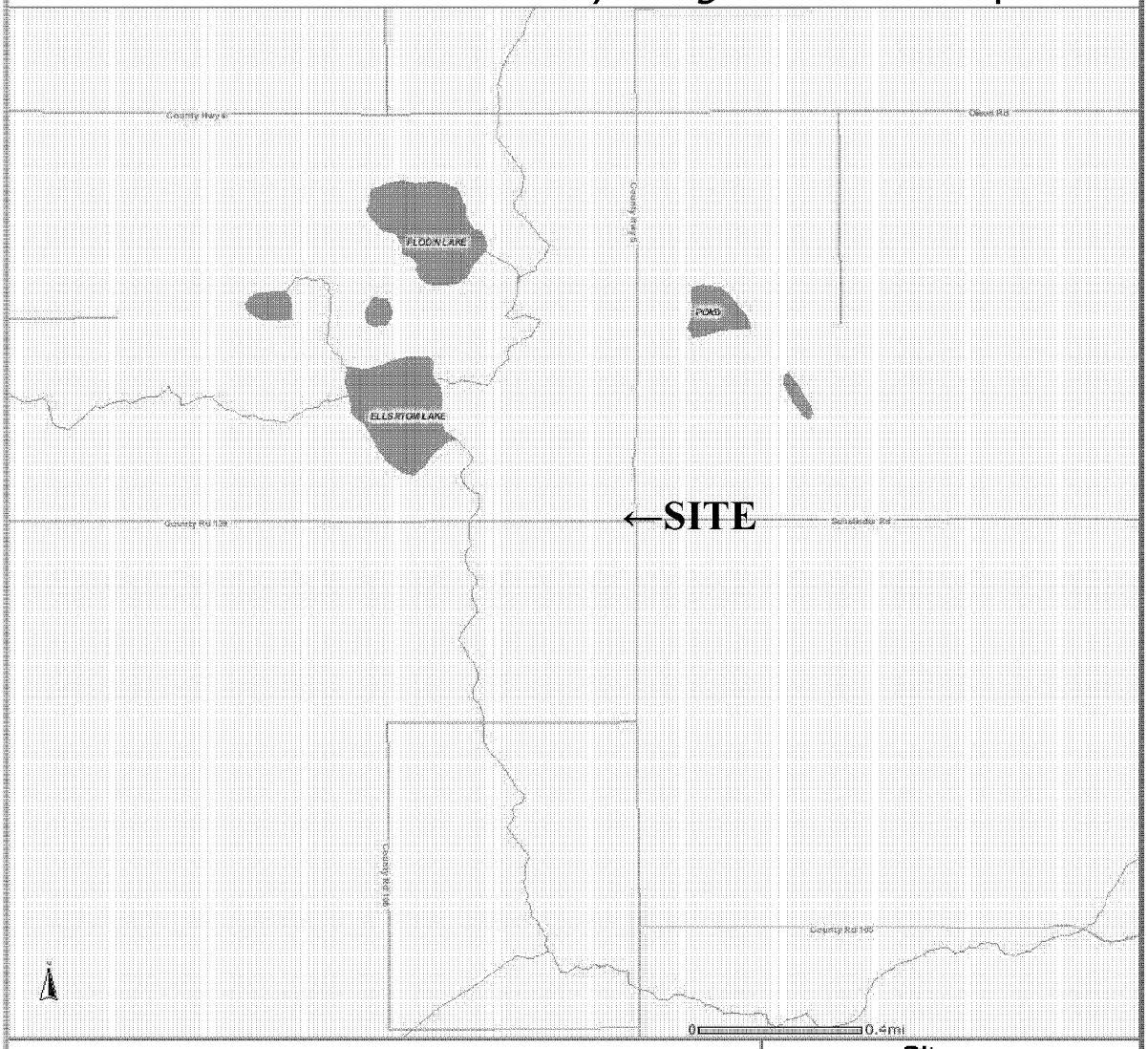
Site Name:	Blackhoof
Fire Department:	Blackhoof Fire Department 1757 Valleyview Road Barnum, MN 55707
Site Contact:	Royce Lattu, Fire Chief 218-384-4963 royce.lattu@msn.com

Training Location:	3148 County Road 5, Barnum
Type of foam used in training:	F-500 by Hazard Control Technology (HCT)
Foam training frequency:	Semi-Annually as of Fall 2007; no foam use prior to Fall 2007
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Ground
Annual foam use:	HCT F-500: 2 gallons
Nearest surface water:	Ellstrom Lake located approximately 1/3 mile northwest
Nearest wetland:	Approximately 1/3 mile west
Nearest water well:	Less than 1/4 mile southwest
Nearest Wellhead Protection Area:	None within 1 mile
SITE RANKING:	**7**

BLACKHOOF CWI Well Map



Blackhoof *What's In My Neighborhood* Map



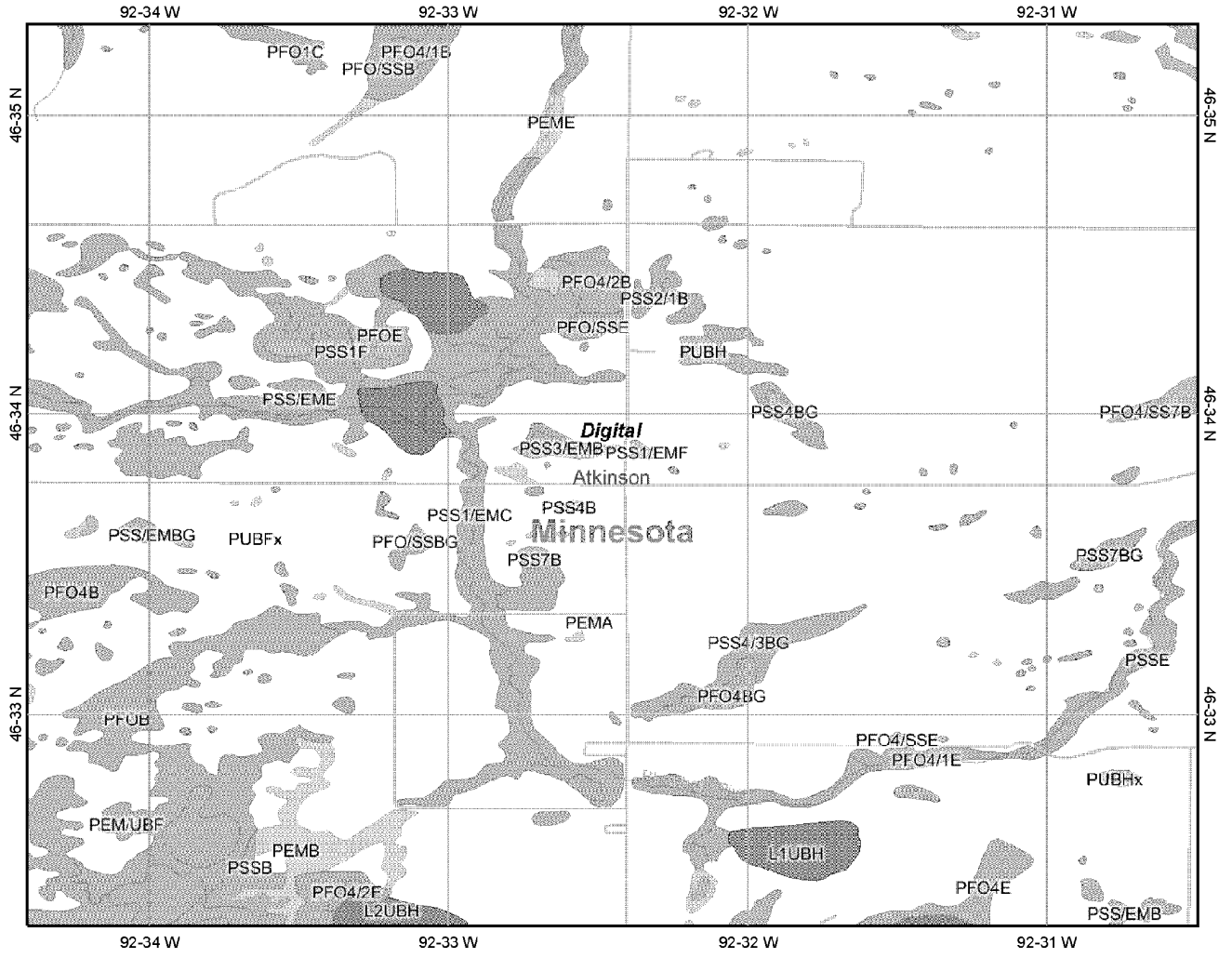
Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

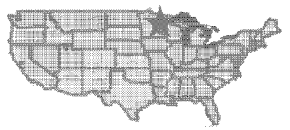
Minnesota Pollution Control Agency

Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dump
- NFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

Blackhoof Wetland Map





Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:39,044

Map center: 46° 33' 48" N, 92° 32' 27" W

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

2222.1116

STATE_02822073

Minnesota Unique Well No.
177611

County Carlton
Quad Atkinson
Quad ID 225D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 08/14/1991
Update Date 02/06/2006
Received Date

Well Name SWANSON, DARREL

Township	Range	Dir	Section	Subsections	Elevation
47	17	W	7	BDDCCA	1093 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
90 ft.	90 ft.	05/07/1981

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 90 ft.	10.5 lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	10	4	86 ft. and 90 ft.

Well Address
1265 5 HC
CARLTON MN 55707

Geological Material	Color	Hardness	From	To
SAND	BROWN	SOFT	0	26
COARSE SAND	BROWN	MEDIUM	26	45
SAND & CLAY	RED	SOFT	45	70
VERY FINE SAND	BROWN	SOFT	70	80
FINE SAND	BROWN	SOFT	80	90

Static Water Level
24 ft. from Land surface Date Measured 05/07/1981

PUMPING LEVEL (below land surface)
33 ft. after 24 hrs. pumping 12 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☑ No

Located Carlton Cty. Soil & Water Cons. Dist.
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification N/A
Date 04/14/2005
System *UTM - Nad83, Zone15, Meters* **X:** 534959 **Y:** 5157512

Nearest Known Source of Contamination
110 feet South West direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 05/15/1981
Manufacturer's name PIONEER Model number A1212C HP 0.5 Volts 230
Length of drop Pipe 76 ft. Capacity 12 g.p.m
Type Submersible Material Plastic

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Klavu Well Co. 09323 KLAVU, E.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-brown
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report

177611

Printed 6/25/2008
HE-01205-07

STATE_02822074

2222.1117

Minnesota Unique Well No.
414206

County Carlton
Quad Atkinson
Quad ID 225D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/14/1991
Update Date 02/09/2006
Received Date

Well Name KOSKI, SUE
Township Range Dir Section Subsections Elevation 1122 **ft.**
47 17 W 18 ACBCCB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
67 ft.	67 ft.	04/06/1987

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 1 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 63 ft.	11 lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOIINSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	12	4	63 ft. and 67 ft.

Geological Material	Color	Hardness	From	To
SAND	BROWN	SOFT	0	61
CLEAN SAND	BROWN	SOFT	61	67

Static Water Level
46 ft. from Land surface Date Measured 04/06/1987

PUMPING LEVEL (below land surface)
46 ft. after 1 hrs. pumping 6 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☑ No

Located Carlton Cty. Soil & Water Cons. Dist.
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification N/A
Date 04/15/2005
System *UTM - Nad83, Zone15, Meters* **X:** 535160 **Y:** 5156118

Nearest Known Source of Contamination
300 feet E direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Schwock Well Co. 09116 NEGAARD, D.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-brown
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report

414206

Printed 6/25/2008
HE-01205-07

Minnesota Unique Well No.
469918

County Carlton
Quad Atkinson
Quad ID 225D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 08/14/1991
Update Date 02/06/2006
Received Date

Well Name SWANSON, DARRELL
Township Range Dir Section Subsections Elevation 1100 **ft.**
47 17 W 7 ACCCAB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
40 ft.	40 ft.	10/11/1990

Drilling Method Non-specified Rotary

Drilling Fluid Water

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 1 **ft.**

Casing Diameter	Weight	Hole Diameter
6 in. to 38 ft.	18.97 lbs./ft.	6 in. to ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
5	15	3.5	38 ft. and 40 ft.

Well Address
1257 5 CR
CARLTON MN 55718

Geological Material	Color	Hardness	From	To
SANDY LOAM	RED	SOFT	0	8
SANDY CLAY	RED	MEDIUM	8	12
SAND & GRAVEL	BROWN	MEDIUM	12	35
SAND & GRAVEL	BLACK	SOFT	35	40

Static Water Level
10 ft. from Land surface Date Measured 10/11/1990

PUMPING LEVEL (below land surface)
30 ft. after 1 hrs. pumping 50 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☑ No

Located Carlton Cty. Soil & Water Cons. Dist.
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification N/A
Date 04/14/2005
System *UTM - Nad83, Zone15, Meters*
X: 535224 **Y:** 5157563

Nearest Known Source of Contamination
105 feet W direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 10/20/1990
Manufacturer's name Model number HP 0.5 Volts 220
Length of drop Pipe ft. Capacity 12 g.p.m Type Material Plastic

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Sunnarborg Well Co. 09437 SUNNARBORG, C
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand & larger-black
Aquifer Quat. Water Table Aquifer
Depth to Bedrock ft.

County Well Index Online Report

469918

Printed 6/25/2008
HE-01205-07

STATE_02822076

Minnesota Unique Well No.
530555

County Carlton
Quad Atkinson
Quad ID 225D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 11/30/1993
Update Date 02/07/2006
Received Date

Well Name CHRISTENSON, ELLAREY
Township Range Dir Section Subsections Elevation 1097 **ft.**
47 17 W 7 CAAAAD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
92 ft.	92 ft.	09/28/1993

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
5 in. to 88 ft.	15 lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** COOK **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
3	10	4	88 ft. and 92 ft.

Static Water Level
22 ft. from Land surface Date Measured 09/17/1993

PUMPING LEVEL (below land surface)
40 ft. after 2 hrs. pumping 10 g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model PL50
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
CARLTON MN 55718

Geological Material	Color	Hardness	From	To
SAND	BROWN	SOFT	0	4
SANDY CLAY	BROWN	SOFT	4	16
SAND GRAVEL	BROWN	SOFT	16	20
SANDY CLAY	BROWN	SOFT	20	37
SAND & GRAVEL	BROWN	MEDIUM	37	42
CLAY SILT	BROWN	SOFT	42	86
SAND FINE	BROWN	SOFT	86	92

REMARKS
2 BAGS BENTONITE AROUND CASING WHILE DRILLING.

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: from to ft. 2 bags

Located Carlton Cty. Soil & Water Cons. Dist.
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification N/A
Date 04/14/2005
System *UTM - Nad83, Zone15, Meters* **X:** 535150 **Y:** 5157444

Nearest Known Source of Contamination
60 feet S direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 09/22/1993
Manufacturer's name MEYERS Model number RM 2N 52-12
HP 0.5 Volts 230
Length of drop Pipe 60 ft. Capacity 10 g.p.m Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Klavu Well Drilling 09650 KLAVU, R.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-brown
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **530555** | Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.
530558

County Carlton
Quad Atkinson
Quad ID 225D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 07/31/1994
Update Date 02/09/2006
Received Date

Well Name NEGAARD, DONALD M.

Township	Range	Dir	Section	Subsections	Elevation
47	17	W	18	BDDBAB	1111 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
85 ft.	85 ft.	02/01/1994

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** ft.

Casing Diameter	Weight	Hole Diameter
5 in. to 82 ft.	15 lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** COOK **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
3	12	4	82 ft. and 85 ft.

Static Water Level
32 ft. from Land surface Date Measured 11/02/1994

PUMPING LEVEL (below land surface)
65 ft. after 2 hrs. pumping 10 g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model PL5U
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
893 106 CR
BARNUM MN 55707

Geological Material	Color	Hardness	From	To
SAND	BROWN	SOFT	0	18
SAND & GRAVEL	BROWN	MEDIUM	18	24
SAND	BROWN	SOFT	24	32
SANDY CLAY	BROWN	SOFT	32	62
CLAY	BROWN	SOFT	62	75
SANDY CLAY	BROWN	SOFT	75	82
FINE SAND	BROWN	SOFT	82	85

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: from to ft. 2 bags

Located Carlton Cty. Soil & Water Cons. Dist.
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification N/A
Date 04/15/2005
System *UTM - Nad83, Zone15, Meters* **X:** 534997 **Y:** 5156062

Nearest Known Source of Contamination
90 feet South West direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 02/01/1994
Manufacturer's name AERMOTOR Model number SD12-50
HP 0.5 Volts 230
Length of drop Pipe 60 ft. Capacity 10 g.p.m Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
08650 KLAVU, E.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-brown
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **530558** | Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.
567594

County Carlton
Quad Atkinson
Quad ID 225D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 10/04/1996
Update Date 02/09/2006
Received Date

Well Name HANSEN, GERALD

Township	Range	Dir	Section	Subsections	Elevation	Elevation Method
47	17	W	18	DBAABB	1124 ft.	7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
68 ft.	68 ft.	08/01/1996

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☐ Yes ☑ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 64 ft.	11 lbs./ft.	6.75 in. to 68 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	10	4	64 ft. and 68 ft.

Geological Material	Color	Hardness	From	To
FINE SAND	RED	SOFT	0	10
SANDY CLAY	RED	M.SOFT	10	36
FINE SAND	RED	SOFT	36	55
MED. SAND	BROWN	SOFT	55	68

Static Water Level
39 ft. from Land surface Date Measured 12/19/1996

PUMPING LEVEL (below land surface)
65 ft. after 1 hrs. pumping 12 g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model SN
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: High solids bentonite from 0 to 30 ft. 2 bags

Located Carlton Cty. Soil & Water Cons. Dist.
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification N/A
Date 04/15/2005
System *UTM - Nad83, Zone15, Meters* **X:** 535515 **Y:** 5155869

Nearest Known Source of Contamination
50 feet South East direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 08/01/1996
Manufacturer's name GOULDS Model number 10GS05412
HP 0.5 Volts 230
Length of drop Pipe 59 ft. Capacity 10 g.p.m Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

First Bedrock
Last Strat Sand-red
Aquifer Quat. Buried Unconf. Aquife
Depth to Bedrock ft.

Well Contractor Certification
Rosga Well Co. 58069 BUSSE, G.
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report | **567594** | Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.
572847

County Carlton
Quad Atkinson
Quad ID 225D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/19/1996
Update Date 11/15/2007
Received Date

Well Name SALMI, ROBERT J.

Township	Range	Dir	Section	Subsections	Elevation	Elevation Method
47	17	W	7	DDCADB	1139 ft.	7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
157 ft.	157 ft.	11/22/1995

Drilling Method Non-specified Rotary

Drilling Fluid Water

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** ft.

Casing Diameter	Weight	Hole Diameter
6 in. to 154.7 ft.	18.97 lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** COOK **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	12	4	157 ft. and 154 ft.

Well Address
2341 SCHELINDER RD
CARLTON MN 55718

Geological Material	Color	Hardness	From	To
SAND	BROWN	SOFT	0	60
SANDY CLAY	RED	SOFT	60	75
CLAY	BROWN	MEDIUM	75	101
FINE SILTY	BROWN	MEDIUM	101	140
FINE SAND	RED	SOFT	140	151
MED. SAND	BROWN	SOFT	151	157

Static Water Level
60 ft. from Land surface Date Measured 11/22/1995

PUMPING LEVEL (below land surface)
150 ft. after 1 hrs. pumping 50 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Carlton Cty. Soil & Water Cons. Dist.
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification N/A
Date 04/14/2005
System *UTM - Nad83, Zone15, Meters* **X:** 535779 **Y:** 5156823

Nearest Known Source of Contamination
100 feet W direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Sunnarborg Well Co. 09437 SUNNARBORG, C
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-brown
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **572847** | Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.
595776

County Carlton
Quad Atkinson
Quad ID 225D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 09/18/1997
Update Date 02/07/2006
Received Date

Well Name SWANSON, RYAN
Township Range Dir Section Subsections Elevation 1162 **ft.**
47 17 W 7 DDDACD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
184 **ft.**	184 **ft.**	06/11/1997

Drilling Method Multiple methods used

Drilling Fluid Water

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☑ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
6 in. to 118 ft.	18.97 lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** WESCO **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	12	4	181.5 ft. and 184 ft.

Well Address
2309 SCHELINDER RD
CARLTON MN 55718

Geological Material	Color	Hardness	From	To
SAND	RED	MEDIUM	0	180
SAND	BROWN	SOFT	180	184

Static Water Level
70 ft. from Land surface Date Measured 06/11/1997

PUMPING LEVEL (below land surface)
170 ft. after 1 hrs. pumping 30 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey **Method** GPS Differentially Corrected
Unique Number Verification Information from owner **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 535983 **Y:** 5156801

Nearest Known Source of Contamination
35 feet W direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
Sunnarborg Well Co. 09437 SUNARBORG, H
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-brown
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report **595776** Printed 6/25/2008 HE-01205-07

STATE_02822081

2222.1124

Minnesota Unique Well No.
596844

County Carlton
Quad Atkinson
Quad ID 225D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/28/1998
Update Date 02/09/2006
Received Date

Well Name WARD, SUSAN
Township Range Dir Section Subsections Elevation 1103 **ft.**

47	17	W	18	BADAAC	**Elevation Method**	7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
123 **ft.**	123 **ft.**	01/21/1998

Drilling Method Non-specified Rotary

Drilling Fluid Water

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** **ft.**

Casing Diameter	Weight	Hole Diameter
6 in. to 120 ft.	19.45 lbs./ft.	6 in. to 123 ft.

Well Address
2935 5 CR
BARNUM MN 55707

Open Hole from ft. to ft.

Screen YES **Make** COOK **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	7	4	120 ft. and 123 ft.

Geological Material	Color	Hardness	From	To
SAND	BROWN	SOFT	0	50
CLAY	RED	MEDIUM	50	60
FINE SAND & CLAY	RED	MEDIUM	60	95
FINE SAND	RED	SOFT	95	123

Static Water Level
24.7 ft. from Land surface Date Measured 01/16/1998

PUMPING LEVEL (below land surface)
34.5 ft. after 2 hrs. pumping 18 g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model SNAPPY
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: from 0 to 120 ft. 5 bags

Located Carlton Cty. Soil & Water Cons. Dist.
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification N/A
Date 04/15/2005
System *UTM - Nad83, Zone15, Meters*
X: 535117 **Y:** 5156436

Nearest Known Source of Contamination
50 feet N direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 01/21/1998
Manufacturer's name STA-RITE Model number 10P4C01S
HP 0.5 Volts 115
Length of drop Pipe 40 ft. Capacity 15 g.p.m Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification

Petersen Well Co.	69183	PETERSEN, D.
License Business Name	Lic. Or Reg. No.	Name of Driller

First Bedrock
Last Strat Sand-red
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock **ft.**

County Well Index Online Report

596844

Printed 6/25/2008
HE-01205-07

STATE_02822082

Minnesota Unique Well No.
604501

County Carlton
Quad Atkinson
Quad ID 225D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/28/1998
Update Date 02/07/2006
Received Date

Well Name BROWNE, KEVIN
Township Range Dir Section Subsections Elevation 1091 **ft.**
47 17 W 7 CACCBD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
56 **ft.**	56 **ft.**	11/03/1997

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☑ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
in. to 52 ft.	15 lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** COOK **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
3	10	4	52 ft. and 56 ft.

Well Address
2845 5 CR
CARLTON MN 55718

Geological Material	Color	Hardness	From	To
SAND	BROWN	MEDIUM	0	22
SANDY CLAY	BROWN	SOFT	22	37
SAND-GRAVEL	BROWN	MEDIUM	37	49
SAND	BROWN	MEDIUM	49	56

Static Water Level
12 ft. from Land surface Date Measured 09/07/1997

PUMPING LEVEL (below land surface)
15 ft. after 24 hrs. pumping 12 g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model 8PL5U
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Bentonite from to ft. 1 bags

Located Carlton Cty. Soil & Water Cons. Dist. **Method** GPS Differentially Corrected
Unique Number Verification Tag on well **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 534734 **Y:** 5157135

Nearest Known Source of Contamination
60 feet S direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 11/03/1997
Manufacturer's name MYERS Model number 2NF152 HP 0.5 Volts 230
Length of drop Pipe 20 ft. Capacity 12 g.p.m Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
Klavu Well Drilling 09650 KLAVU, R.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-brown
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **604501** | Printed 6/25/2008 HE-01205-07

STATE_02822083

2222.1126

Minnesota Unique Well No.
604593

County Carlton
Quad Atkinson
Quad ID 225D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 11/23/1999
Update Date 02/09/2006
Received Date

Well Name NEAULT, MICHAEL & LINDA
Township Range Dir Section Subsections Elevation 1094 **ft.**
47 17 W 18 BABACB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
36 **ft.**	36 **ft.**	03/20/1998

Drilling Method Air Rotary

Drilling Fluid Water

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☑ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
6 in. to 36 ft.	18.97 lbs./ft.	6 in. to 36 ft.

Well Address
2440 139 RD
CLOQUET MN 55720

Open Hole from 36 ft. to 36 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
SAND	BRN/YEL	SOFT	0	17
SILTY SAND	BROWN	SOFT	17	30
COARSE SAND FINE GRAVEL	BLACK	SOFT	30	36

Static Water Level
12 ft. from Land surface Date Measured 03/20/1998

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
DRILLING METHOD: DRIVEN/ROTARY/AIR.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey **Method** Digitization (Screen) - Map (1:24,000)
Unique Number Verification Address verification **Date** 07/06/2005
System *UTM - Nad83, Zone15, Meters* **X:** 534839 **Y:** 5156599

Nearest Known Source of Contamination
150 feet E direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number IIP Volts
Length of drop Pipe ft. Capacity g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
Sunnarborg Well Co. 09437 SUNNARBORG, C
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand & larger-black
Aquifer Quat. Water Table Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **604593** | Printed 6/25/2008 HE-01205-07

STATE_02822084

2222.1127

Minnesota Unique Well No.
613358

County Carlton
Quad Atkinson
Quad ID 225D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 11/23/1999
Update Date 02/07/2006
Received Date

Well Name WEETS, DELBERT R.
Township Range Dir Section Subsections Elevation 1151 **ft.**
47 17 W 7 DDDADD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
248 **ft.**	248 **ft.**	07/30/1998

Drilling Method Multiple methods used

Drilling Fluid Water

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☑ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
6 in. to 245 ft.	18.97 lbs./ft.	6 in. to 245 ft.
		4 in. to 248 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	10	4.7	245 ft. and 248 ft.

Well Address
2307 SCHELINDER RD
CARLTON MN 55718

Geological Material	Color	Hardness	From	To
FINE SAND	RED/BRN	SOFT	0	170
MUDDY SILTY SANDY CLAY	BROWN	SOFT	170	205
SILTY SAND	BROWN	SOFT	205	240
MED SAND	BROWN	SOFT	240	248

Static Water Level
70 ft. from Land surface Date Measured 07/30/1998

PUMPING LEVEL (below land surface)
240 ft. after 1 hrs. pumping 50 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
DRILLING METHOD: DRIVEN/ROTARY/AIR.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number
Verification Information from owner
Date 07/06/2005
System *UTM - Nad83, Zone15, Meters*
X: 536040 **Y:** 5156778

Nearest Known Source of Contamination
55 feet S direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
Sunnarborg Well Co. 09437 SUNNARBORG, C
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-brown
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report **613358** Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.
617945

County Carlton
Quad Atkinson
Quad ID 225D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 07/20/1999
Update Date 02/06/2006
Received Date

Well Name OSWELL, CLYDE
Township Range Dir Section Subsections Elevation 1112 **ft.**
47 17 W 7 ACDCCC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
45 **ft.**	45 **ft.**	01/28/1999

Drilling Method Non-specified Rotary

Drilling Fluid Water

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☑ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
6 in. to 42 ft.	18.97 lbs./ft.	6 in. to 42.5 ft.
		4 in. to 45 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	12	4.5	42.5 ft. and 45 ft.

Well Address
2800 5 CR S
CARLTON MN 55718

Geological Material	Color	Hardness	From	To
SAND	BROWN	SFT-MED	0	45

Static Water Level
20 ft. from Land surface Date Measured 01/28/1999

PUMPING LEVEL (below land surface)
40 ft. after 1 hrs. pumping 30 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☑ No

Located Minnesota Geological Survey **Method** Digitization (Screen) - Map (1:24,000)
Unique Number Verification Address verification **Date** 07/06/2005
System *UTM - Nad83, Zone15, Meters* **X:** 535390 **Y:** 5157475

Nearest Known Source of Contamination
150 feet ES direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name GRUNDFOS Model number ___ HP 0.5 Volts 220
Length of drop Pipe 40 ft. Capacity 12 g.p.m Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
Sunnarborg Well Co. 09437 SUNNARBORG, H
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-brown
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **617945** | Printed 6/25/2008 HE-01205-07

Minnesota Unique Well No.
691411

County Carlton
Quad Atkinson
Quad ID 225D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 08/18/2004
Update Date 02/07/2006
Received Date 07/09/2004

Well Name HATTENBERGER, JOHN

Township	Range	Dir	Section	Subsections	Elevation Method	Elevation
47	17	W	7	DCBDAA	7.5 minute topographic map (+/- 5 feet)	1112 ft.

Well Depth	Depth Completed	Date Well Completed
46 ft.	46 ft.	06/18/2004

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** ft.

Casing Diameter	Weight	Hole Diameter
6 in. to 41 ft.	19 lbs./ft.	6 in. to 41 ft.

Well Address
2860 5 CR
CARLTON MN 55718

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
5	12	5.5	41 ft. and 46 ft.

Geological Material	Color	Hardness	From	To
TOP SOIL	BLACK	SOFT	0	1
SAND	BROWN	MEDIUM	1	31
CLAY	BROWN	MEDIUM	31	36
SAND	BROWN	MEDIUM	36	46

Static Water Level
25 ft. from Land surface Date Measured 06/18/2004

PUMPING LEVEL (below land surface)
40 ft. after 2 hrs. pumping 11 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Bentonite from to ft.

Located Minnesota Geological Survey **Method** Digitization (Screen) - Map (1:24,000)
Unique Number Verification Address verification **Date** 07/06/2005
System *UTM - Nad83, Zone15, Meters* **X:** 535353 **Y:** 5156970

Nearest Known Source of Contamination
105 feet W direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
Lakehead Well 09199 KENT, B.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-brown
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report

691411

Printed 6/25/2008
HE-01205-07

Minnesota Unique Well No.
693484

County Carlton
Quad Atkinson
Quad ID 225D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 03/22/2005
Update Date 02/09/2006
Received Date

Well Name GROVER, TARA

Township	Range	Dir	Section	Subsections	Elevation
47	17	W	18	AAAABA	1125 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
248 ft.	248 ft.	05/08/2003

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below** ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 240 ft.	lbs./ft.	8.75 in. to 248 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	12	8	240 ft. and 248 ft.

Well Address
2302 SCHELINDER RD
CARLTON MN 55718

Geological Material	Color	Hardness	From	To
SANDY CLAY	BROWN		0	236
SAND	BROWN	MEDIUM	236	248

Static Water Level
40 ft. from Land surface Date Measured 05/08/2003

PUMPING LEVEL (below land surface)
150 ft. after 1 hrs. pumping 20 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: High solids bentonite from 0 to 30 ft.

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Tag on well
Date 07/06/2005
System *UTM - Nad83, Zone15, Meters*
X: 535988 **Y:** 5156659

Nearest Known Source of Contamination
50 feet _direction Septic tank/drain field type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed 0
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
North Star Drilling 49588 NELSON, S.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-brown
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report **693484** Printed 6/25/2008
HE-01205-07

STATE_02822088

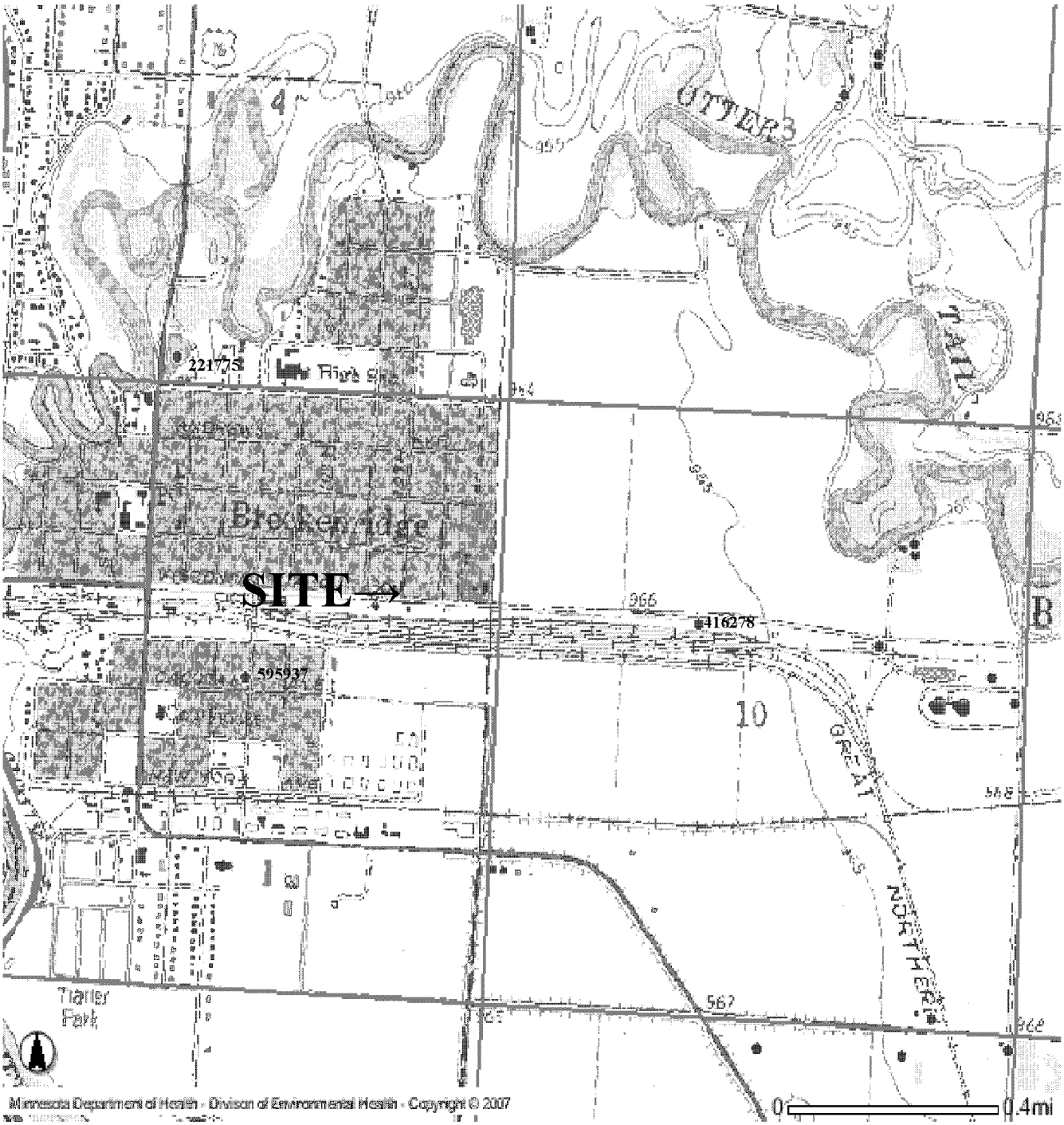
2222.1131

SITE SUMMARY

Site Name:	Breckenridge
Fire Department:	Breckenridge Fire Department 420 Nebraska Avenue Breckenridge, MN 56520
Site Contact:	Brad Wall, Assistant Fire Chief 218-643-6910

Training Location:	1312 Minnesota Avenue, Breckenridge
Type of foam used in training:	AFFF: brand not specified Class A: brand not specified
Foam training frequency:	Annually
Foam use per training event:	5 to 10 gallons
Spent foam destination:	Storm sewer
Annual foam use:	AFFF: 5 gallons Class A: 5 gallons
Nearest surface water:	Ottertail River located approximately 3/4 to 1 mile east
Nearest wetland:	Approximately 1 mile east
Nearest water well:	Approximately 1/3 mile southwest
Nearest Wellhead Protection Area:	None within 1 mile
SITE RANKING:	**15**

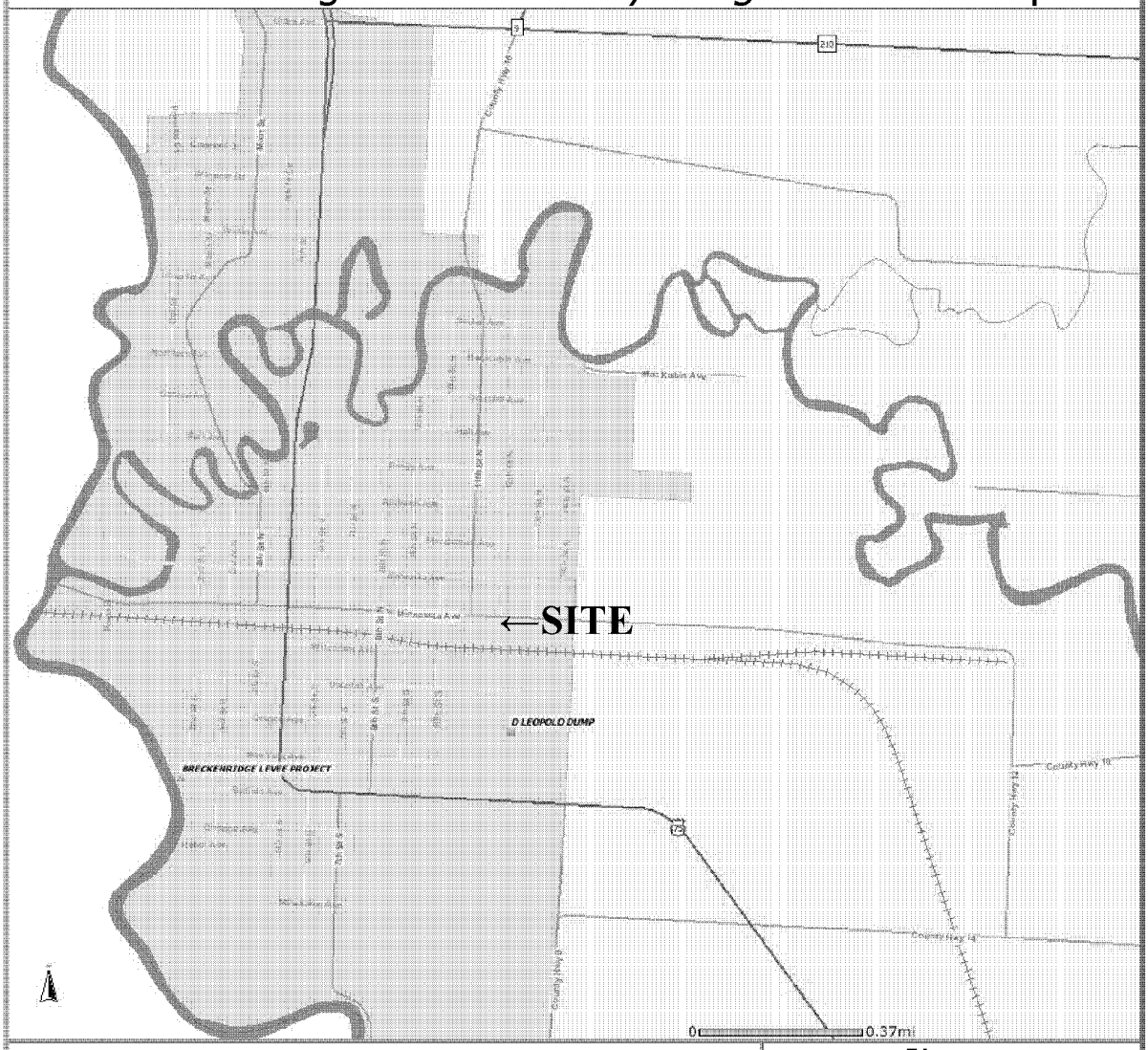
BRECKENRIDGE CWI Well Map



STATE_02822090

2222.1133

Breckenridge *What's In My Neighborhood* Map



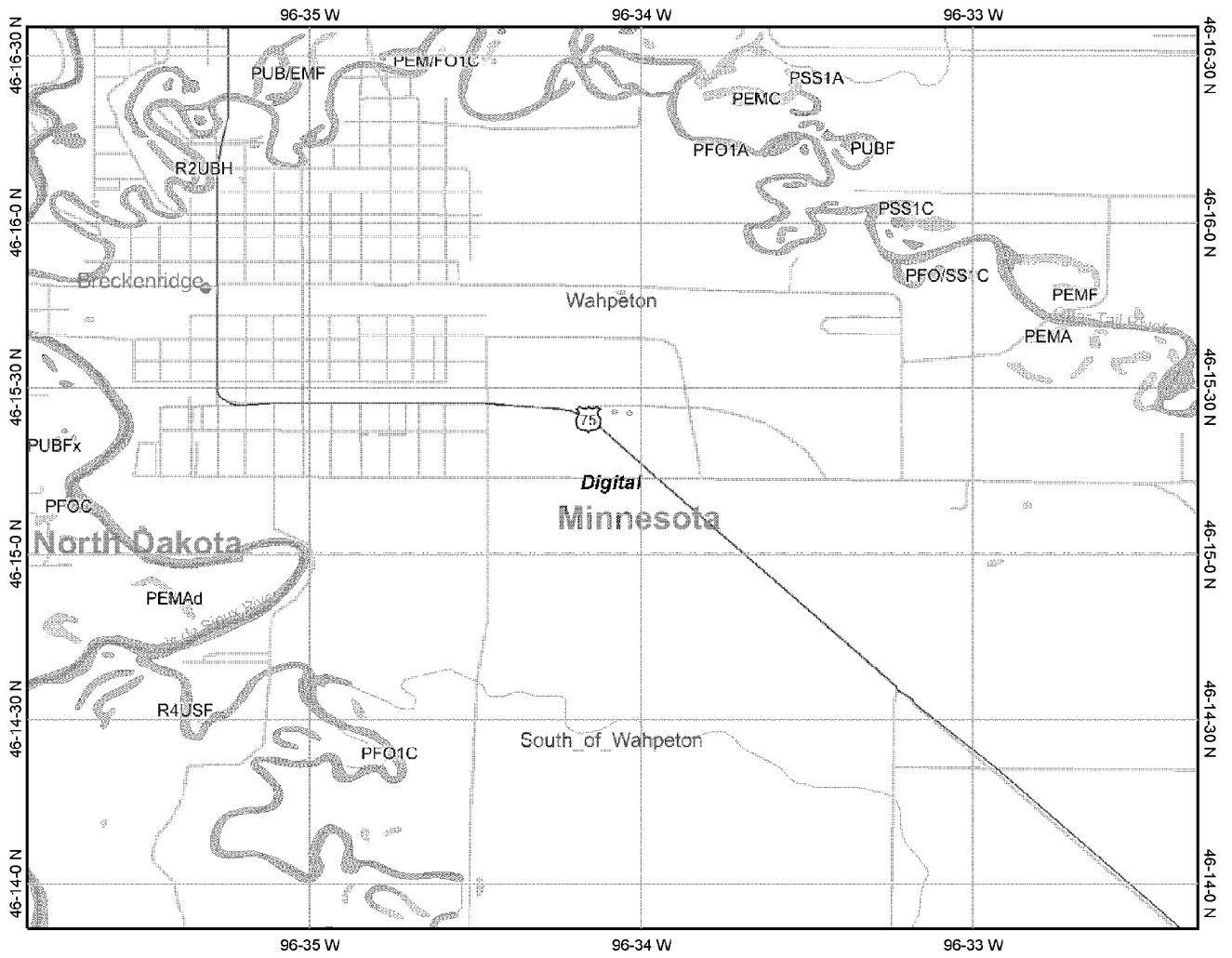
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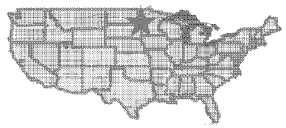
Minnesota Pollution Control Agency

Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NPL/NAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

Breckenridge Wetland Map





Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:35,317

Map center: 46° 15' 14" N, 96° 34' 5" W

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

2222.1135

STATE_02822092

Minnesota Unique Well No.
221775

County Wilkin
Quad Wahpeton
Quad ID 221D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/17/1988
Update Date 09/02/2004
Received Date

Well Name BRECKENRIDGE TW-1
Township Range Dir Section Subsections Elevation 955 **ft.**

132	47	W	4	CDDCBC	**Elevation Method**	7.5 minute topographic map (+/- 5 feet)

Well Depth	**Depth Completed**	**Date Well Completed**
450 **ft.**	450 **ft.**	08/28/1976

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Test well

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter **Weight** **Hole Diameter**

Well Address

MN

Open Hole from ft. to ft.

Screen NO **Make** **Type**

Diameter **Slot/Gauze** **Length** **Set Between**

Geological Material	Color	Hardness	From	To
TOP SOIL	BLACK		0	13
CLAY	YELLOW		13	27
CLAY	GRY/BLU		27	147
SANDY CLAY + DIRTY SAND LENSES	GRAY		147	295
DIRTY SAND TOOK SOME WATER	GRAY		295	300
SANDY CLAY + DIRTY SAND LENSES	GRAY		300	355
LENSES OF CLEAN AND DIRTY SAND	GRAY		355	400
LENSES OF VERY DIRTY SAND	SILVER		400	450

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number
Verification Information from owner
Date N/A

System *UTM - Nad83, Zone15, Meters* **X:** 223547 **Y:** 5130187

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Ltp Enterprises 91353
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Cretaceous,Undiff.
Last Strat Cretaceous,Undiff.
Aquifer
Depth to Bedrock 400 **ft.**

County Well Index Online Report

221775

Printed 6/26/2008
HE-01205-07

STATE_02822093

2222.1136

Minnesota Unique Well No.
416278

County Wilkin
Quad Wahpeton
Quad ID 221D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/08/1991
Update Date 09/02/2004
Received Date

Well Name RED RIVER VALLY RR
Township Range Dir Section Subsections Elevation 965 **ft.**
132 47 W 10 BDACBD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
225 **ft.**	225 **ft.**	02/01/1990

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
0 in. to 221 ft.	lbs./ft.	6.25 in. to 225 ft.

Well Address
BRECKINRIDGE MN

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type**

Diameter	Slot/Gauze	Length	Set Between
3	15	4	221 ft. and 225 ft.

Geological Material	Color	Hardness	From	To
TOP SOIL	BLACK	SOFT	0	1
CLAY	YELLOW	SOFT	1	18
CLAY	BLUE	MEDIUM	18	200
CLAY	BLUE	MEDIUM	200	221
SABD LENS	GRAY	MEDIUM	221	225

Static Water Level
35 ft. from Land surface Date Measured 02/10/1990

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model 6PS
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement	from 20 to 210 ft.	1 yrds.
Grout Material: Cuttings	from 210 to 226 ft.	0.3 yrds.

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number
Verification Other, note in remarks
Date N/A

System *UTM - Nad83, Zone15, Meters*
X: 225133 **Y:** 5129473

Nearest Known Source of Contamination
250 feet W direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☑ Not Installed Date Installed 02/12/1990
Manufacturer's name GOULDS Model number 7EH05412
HP 0.5 Volts 230
Length of drop Pipe 210 ft. Capacity 7 g.p.m
Type Submersible Material Plastic

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

First Bedrock
Last Strat Sand-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

Well Contractor Certification
Falk Bros Well Co. 91204 FALK, J.
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report

416278

Printed 6/26/2008
HE-01205-07

STATE_02822094

Minnesota Unique Well No.
595937

County Wilkin
Quad Wahpeton
Quad ID 221D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 06/04/2004
Update Date 11/26/2007
Received Date

Well Name

Township Range Dir Section Subsections Elevation 963 **ft.**

132 47 W 9 **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
87 **ft.**	85 **ft.**	10/23/2003

Drilling Method Non-specified Rotary

Drilling Fluid Water

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Irrigation

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☑ Yes ☐ No **Above/Below** **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 80 ft.	lbs./ft.	6.75 in. to 87 ft.

Well Address
704 DAKOTA AV
BRECKENRIDGE MN

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
3	12	5	80 ft. and 85 ft.

Geological Material	Color	Hardness	From	To
TOPSOIL	BLACK	SOFT	0	1
CLAY	YELLOW	SOFT	1	17
CLAY	BLUE	MEDIUM	17	55
SAND LENS	GRAY	MEDIUM	55	85

Static Water Level
12 ft. from Land surface Date Measured 10/23/2003

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
DEVELOPED WITH AIR 100 GPM

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Bentonite from 0 to 50 ft. 5 bags

Located Minnesota Department of Health **Method** GPS SA Off (averaged)

Unique Number Verification N/A **Date** 12/09/2003

System *UTM - Nad83, Zone15, Meters* **X:** 223754 **Y:** 5129332

Nearest Known Source of Contamination
0 feet direction type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 10/30/2003
Manufacturer's name GOULDS Model number 25 EL 05412
HP 1 Volts 230
Length of drop Pipe 50 ft. Capacity 25 g.p.m
Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

STATE_02822095

2222.1138

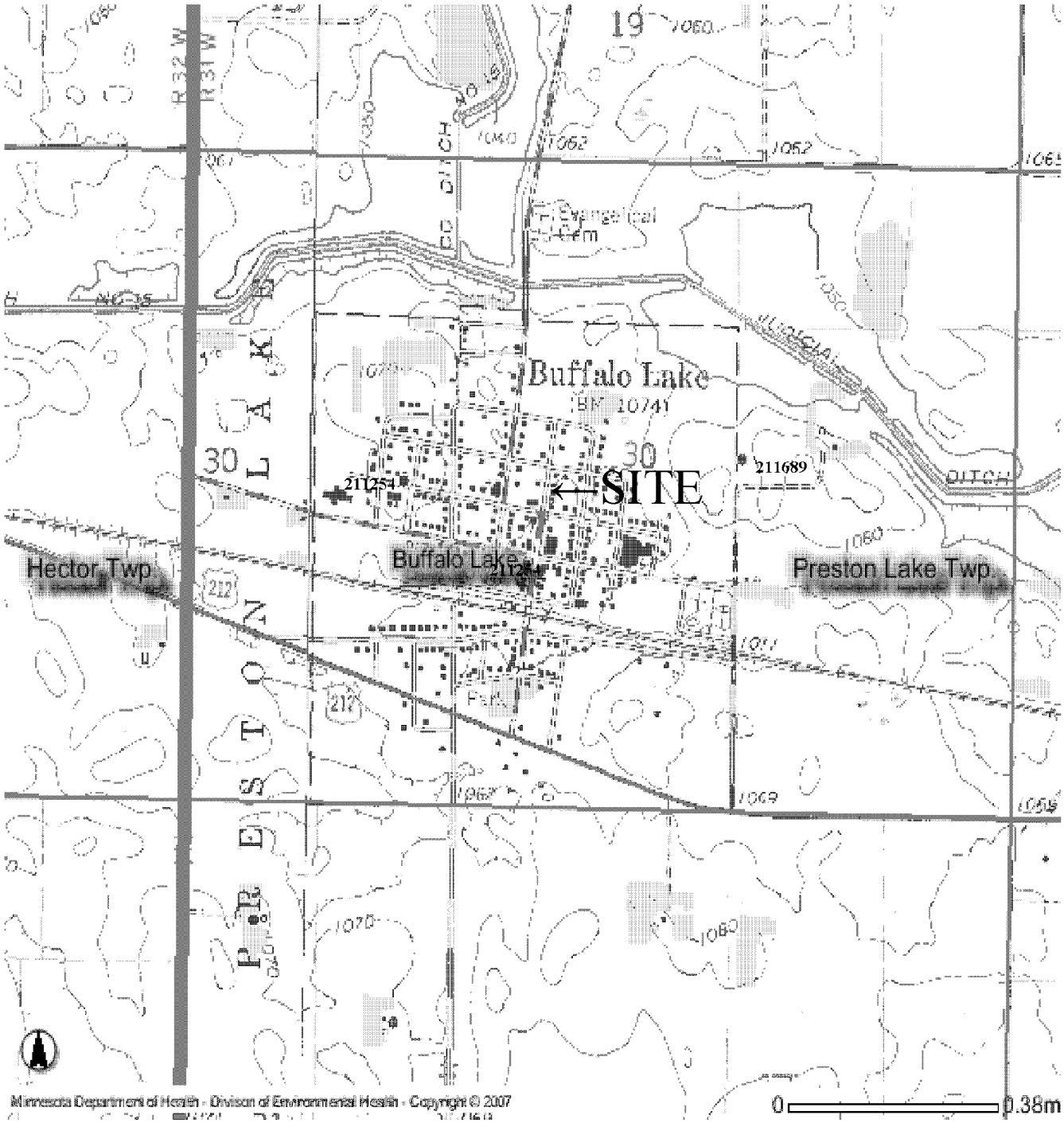
First Bedrock **Last Strat**	**Aquifer** **Depth to Bedrock ft.**	**Well Contractor Certification** Falk Bros Well Co. 91204 FALK,N License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	**595937**	Printed 6/26/2008 HE-01205-07

SITE SUMMARY

Site Name:	Buffalo Lake
Fire Department:	Buffalo Lake Fire Department 212 Central Avenue NE Buffalo Lake, MN 55313
Site Contact:	Gayle Deal, Fire Chief 320-833-2374 blfdfirechief@hotmail.com

Training Location:	315 N. Main Street, near intersection of Main and Church Streets, Buffalo Lake
Type of foam used in training:	AFFF: 3M Light Water Class A: Angus Hi-Combat
Foam training frequency:	Bi-Annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Storm sewer
Annual foam use:	AFFF: Less than 5 gallons Class A: 5 to 10 gallons
Nearest surface water:	Ottertail River located approximately 3/4 to 1 mile east
Nearest wetland:	Approximately 1 mile east
Nearest water well:	Approximately 1/3 mile southwest
Nearest Wellhead Protection Area:	None within 1 mile
SITE RANKING:	**13**

BUFFALO LAKE CWI Well Map



STATE_02822098

2222.1141

Buffalo Lake MPCA Map



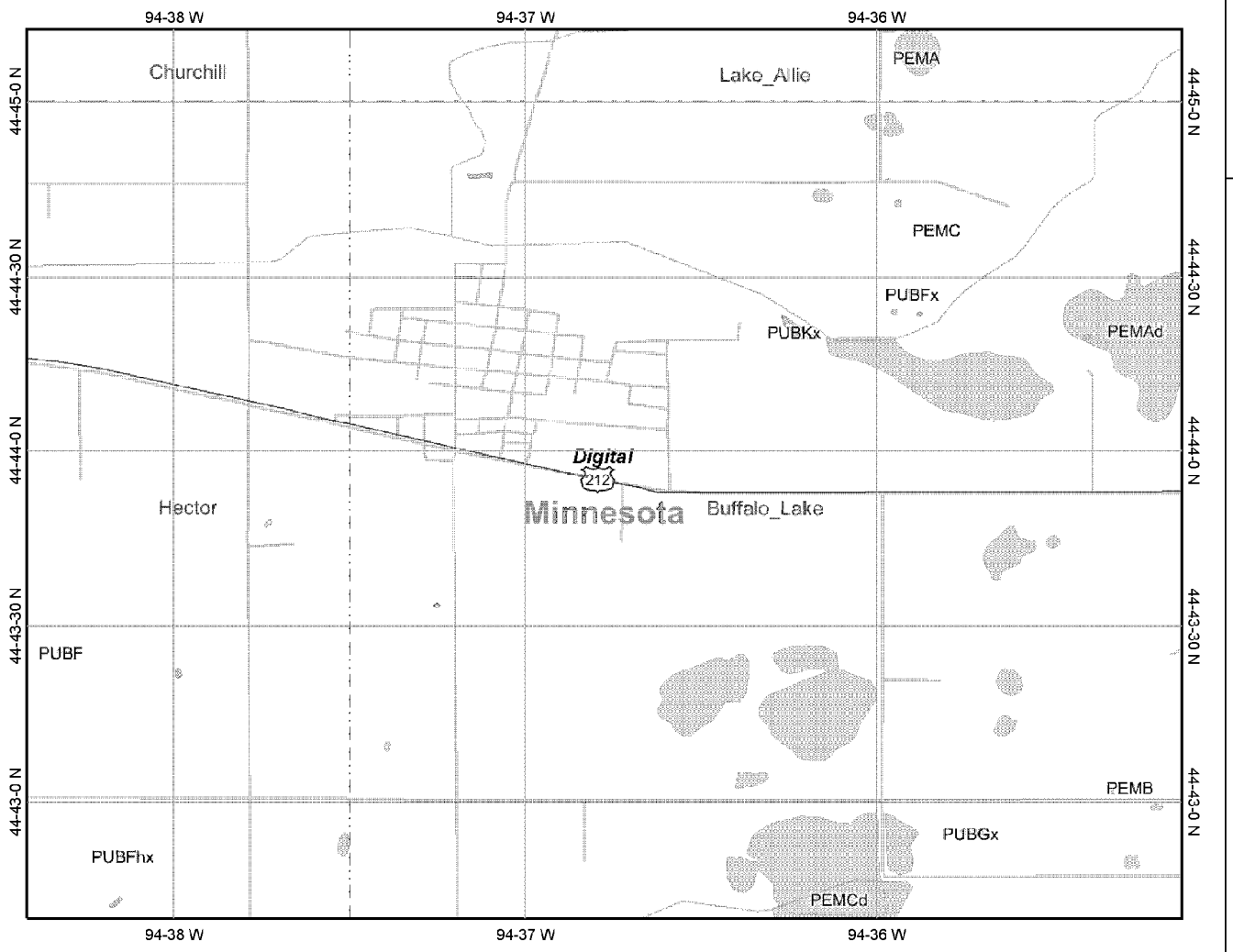
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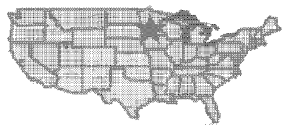
Minnesota Pollution Control Agency

Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- HFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

Buffalo Lake





Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:32,921

Map center: 44° 43' 56" N, 94° 36' 46" W

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2222.1143

STATE_02822100

Minnesota Unique Well No.
211254

County Renville
Quad Buffalo Lake
Quad ID 94A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/17/1988
Update Date 05/06/2005
Received Date

Well Name BUFFALO LAKE 1
Township Range Dir Section Subsections Elevation 1069 **ft.**
115 31 W 30 BBDCCC **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
368 **ft.**	368 **ft.**	07/00/1940

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter	Weight	Hole Diameter
8 in. to 352 ft.	lbs./ft.	

Well Address
BUFFALO LAKE MN 55314

Geological Material	Color	Hardness	From	To
LOAM	BLACK		0	2
CLAY	YELLOW		2	10
CLAY & BOULDERS	BLUE		10	71
SAND, GRAVEL & CLAY BALLS			71	72
CLAY ROCKS	GRAY		72	110
STICKY CLAY	GRAY		110	200
HARDPAN			200	205
STICKY CLAY	GRAY		205	347
SAND & GRAVEL			347	368

Open Hole from ft. to ft.

Screen YES **Make** BUTTON **Type**

Diameter	Slot/Gauze	Length	Set Between
6		15	352 ft. and 368 ft.

Static Water Level
54 ft. from Land surface Date Measured 07/00/1940

PUMPING LEVEL (below land surface)
ft. after hrs. pumping 110 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
WELL SEALED 8-11-2000 BY BEN ERVIN WELL CO. H-167299.
WELL SEALED 08-11-2000 BY 65252
ORIGINAL USE PC - COMMUNITY SUPPLY

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey **Method** GPS SA On (averaged)
Unique Number Verification Information from owner **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 371593 **Y:** 4955202

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 00/00/1940
Manufacturer's name FAIRBANKS-MORSE Model number __ HP 10 Volts 220
Length of drop Pipe 150 ft. Capacity _g.p.m Type Turbine Material Steel (black or low carbon)

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Keys Well Co. 62012 JOHNSON, A.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand & larger
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock **ft.**

County Well Index Online Report

211254

Printed 6/26/2008
HE-01205-07

STATE_02822101

2222.1144

Minnesota Unique Well No.
211689

County Renville
Quad Buffalo Lake
Quad ID 94A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/17/1988
Update Date 04/22/1997
Received Date

Well Name SCHAMER, ELMER

Township	Range	Dir	Section	Subsections	Elevation
115	31	W	30	ACCCCB	1065 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
112 ft.	108 ft.	08/13/1969

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 104 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	18	4	104 ft. and 108 ft.

Well Address

BUFFALO LAKE MN 55314

Geological Material	Color	Hardness	From	To
CLAY	YELLOW		0	19
CLAY	BLUE		19	62
SANDY	BLUE	V.SOFT	62	72
CLAY SANDY	BLUE		72	105
SANDY	BLUE		105	112
CLAY SAND	BLUE		112	112

Static Water Level
24 ft. from Land surface Date Measured 08/13/1969

PUMPING LEVEL (below land surface)
28 ft. after hrs. pumping 100 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey

Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Information from owner

Date N/A

System *UTM - Nad83, Zone15, Meters*

X: 372565 **Y:** 4955255

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

2222.1145

STATE_02822102

	Pump ☐ Not Installed Date Installed Manufacturer's name Model number ___ HP 0 Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material
	Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No
	Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No
First Bedrock **Aquifer** Quat. Buried Artes. Aquifer **Last Strat** Clay & sand-gray **Depth to Bedrock ft.**	**Well Contractor Certification** Fredericksons Inc. 43099 NASS, R. License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report	**211689**	Printed 6/26/2008 HE-01205-07

2222.1146

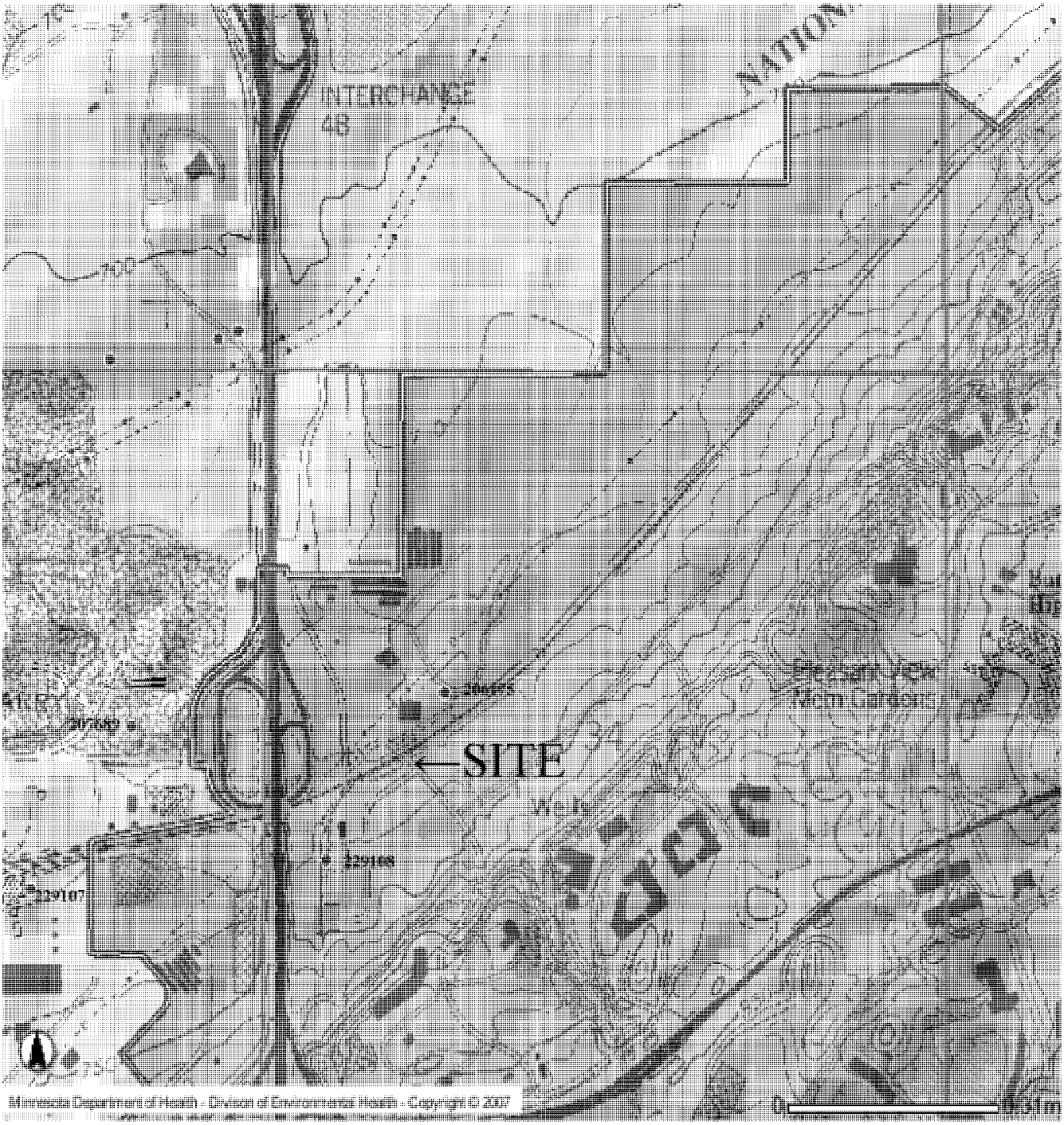
STATE_02822103

SITE SUMMARY

Site Name:	Burnsville
Fire Department:	Burnsville Fire Department 100 Civic Center Parkway Burnsville, MN 55337
Site Contact:	Dan Hove, Assistant Fire Chief 952-895-4572 dan.hove@ci.burnsville.mn.us

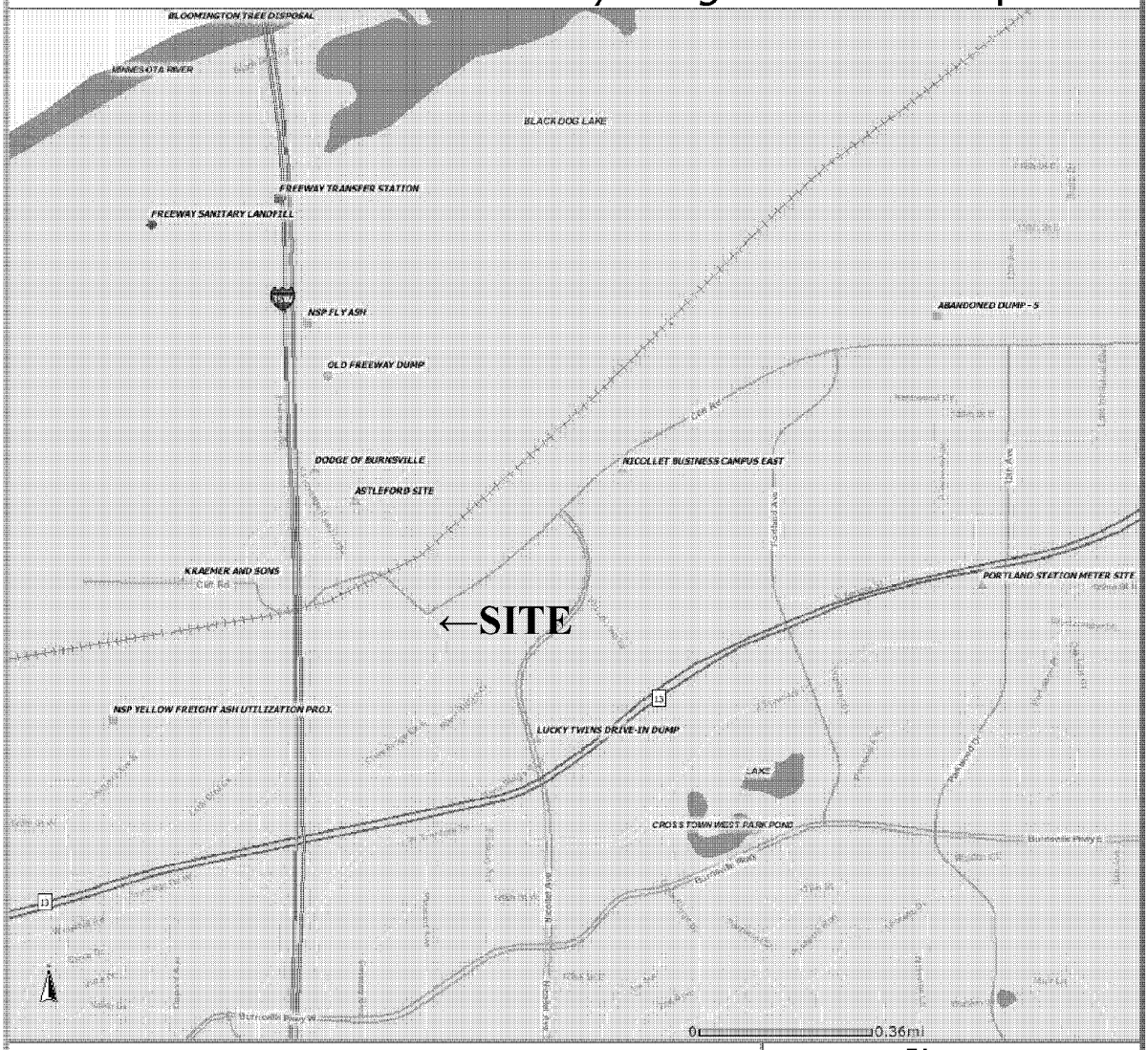
Training Location:	Training facility jointly owned by Burnsville, Apple Valley and Eagan, located at intersection of Cliff Road and River Ridge Boulevard, Burnsville
Type of foam used in training:	AR-AFFF: Ansul ATC 3/6 Class A: Silv-ex Training Foam: Ansul (historic use)
Foam training frequency:	Annually
Foam use per training event:	5 to 10 gallons
Spent foam destination:	Ground
Annual foam use:	AR-AFFF: 60 gallons Class A: 140 gallons Training Foam: 55 gallons (historic use)
Nearest surface water:	An unnamed (intermittent) stream less than 1/4 mile east
Nearest wetland:	Less than 1/4 mile west-northwest
Karst Area:	Site appears to be located in small area of active karst in the northwest corner of Dakota County
Nearest water well:	Less than 1/4 mile to the north-northeast and to the southwest
Nearest Wellhead Protection Area:	Training site located within Wellhead Protection Area
SITE RANKING:	**23**

BURNSVILLE CWI Well Map



STATE_02822105

Burnsville *What's In My Neighborhood* Map



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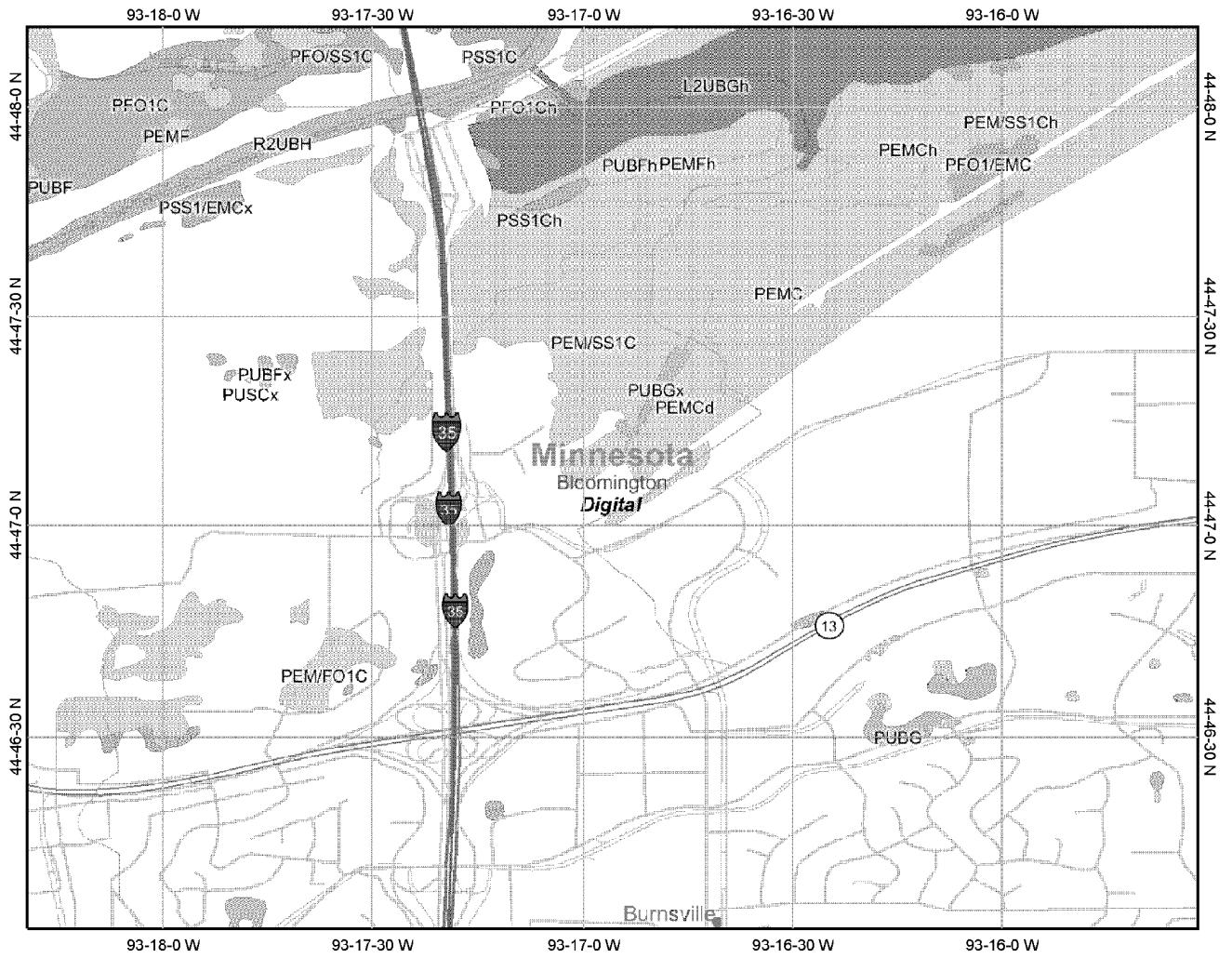
Minnesota Pollution Control Agency

Sites

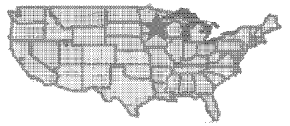
- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NPL/NPAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

STATE_02822106

Burnsville Wetland Map



Map center: 44° 47' 7" N, 93° 16' 56" W



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:27,893

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2222.1150

STATE_02822107

Minnesota Unique Well No.
206175

County Dakota
Quad Bloomington
Quad ID 104D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 10/19/1990
Update Date 06/22/2001
Received Date

Well Name BURNSVILLE
Township Range Dir Section Subsections Elevation 725 **ft.**
27 24 W 34 BDC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
220 **ft.**	220 **ft.**	12/20/1963

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Abandoned **Status** Inactive

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
6 in. to 180 ft.	lbs./ft.	
6 in. to 180 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
12111 RIVER RIDGE BL
BURNSVILLE MN

Geological Material	Color	Hardness	From	To
FILL			0	12
SHAKOPEE-ONEOTA DOLOMITE			12	168
JORDAN SANDSTONE			168	220

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
0 ft. after hrs. pumping 200 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
ABANDONED OPEN HOLE ARTESIAN FLOW OPEN HOLE
CASING: 010 TO 0012;006 TO 0180.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located United States Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 477578 **Y:** 4959030

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Tri-state Well Co. 27118
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Prairie Du Chien Group **Aquifer** Jordan
Last Strat Jordan **Depth to Bedrock** 12 **ft.**

County Well Index Online Report **206175** Printed 6/26/2008 HE-01205-07

Minnesota Unique Well No.
207689

County Dakota
Quad Bloomington
Quad ID 104D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 10/19/1990
Update Date 08/14/1991
Received Date

Well Name ED KREAMER
Township Range Dir Section Subsections Elevation 722 **ft.**
27 24 W 33 ADCCBC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
240 **ft.**	240 **ft.**	07/30/1974

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Commercial

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/ Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 196 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter **Slot/Gauze** **Length** **Set Between**

Well Address
1000 122 ST W
BURNSVILLE MN

Geological Material	Color	Hardness	From	To
GRAVEL			0	79
LIMESTONE			79	158
SANDSTONE			158	240

Static Water Level
20 ft. from Land surface Date Measured 07/30/1974

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification N/A **Date** N/A

System *UTM - Nad83, Zone15, Meters* **X:** 476832 **Y:** 4958959

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Prairie Du Chien Group
Last Strat Jordan
Aquifer Jordan
Depth to Bedrock 79 **ft.**

County Well Index Online Report | **207689** | Printed 6/26/2008 HE-01205-07

Minnesota Unique Well No.
229107

County Dakota
Quad Bloomington
Quad ID 104D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 05/20/1991
Update Date 08/14/1991
Received Date

Well Name LEHIGH PORTLAND CEMENT C
Township Range Dir Section Subsections Elevation 729 ft.

27	24	W	33	DBDBCD	**Elevation Method**	7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
225 ft.	225 ft.	196309

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Industrial

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
10 in. to 22 ft.	lbs./ft.	
6 in. to 185 ft.	lbs./ft.	

Open Hole from 185 ft. to 225 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
PEAT			0	9
LIMESTONE-SHAKOPEE DOLOMITE			9	170
SANDSTONE-JORDAN			170	225

Static Water Level
-8 ft. from Land surface Date Measured 196309

PUMPING LEVEL (below land surface)
0 ft. after hrs. pumping 100 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
CASING: 10 TO 22; 6 TO 185.
FLOWING WELL.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey **Method** Digitization (Screen) - Map (1:24,000)
Unique Number Verification N/A **Date** 08/30/2004
System *UTM - Nad83, Zone15, Meters* **X:** 476592 **Y:** 4958620

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

First Bedrock Prairie Du Chien Group **Aquifer** Jordan
Last Strat Jordan **Depth to Bedrock** 9 **ft.**

Well Contractor Certification
Aamot Well Co. 27062
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report | **229107** | Printed 6/26/2008 HE-01205-07

Minnesota Unique Well No.
229108

County Dakota
Quad Bloomington
Quad ID 104D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 05/20/1991
Update Date 03/08/2007
Received Date

Well Name NORTHWESTERN STATES CEMENT CO.
Township Range Dir Section Subsections Elevation 743 **ft.**
27 24 W 34 CBCABA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
270 **ft.**	270 **ft.**	10/04/1963

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Industrial

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
20 in. to 29 ft.	lbs./ft.	
12 in. to 194 ft.	lbs./ft.	

Open Hole from 194 ft. to 270 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
-1 ft. from Land surface Date Measured 10/04/1963

PUMPING LEVEL (below land surface)
14 ft. after hrs. pumping 360 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
BURNSVILLE MN

Geological Material	Color	Hardness	From	To
GLACIAL DRIFT			0	27
SHAKOPEE-ONEOTA DOLOMITE			27	179
JORDAN SANDSTONE			179	270

REMARKS
WELL FLOWS DON'T KNOW HOW HIGH ABOVE GROUND LEVEL.
LINER PIPE GROUTED WITH PURE CEMENT.

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement from to ft.

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)

Unique Number Verification Information from owner
Date 08/30/2004

System *UTM - Nad83, Zone15, Meters*
X: 477296 **Y:** 4958679

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Tri-state Well Co. 27118 BENEKE, R.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Prairie Du Chien Group
Last Strat Jordan
Aquifer Jordan
Depth to Bedrock 27 **ft.**

County Well Index Online Report

229108

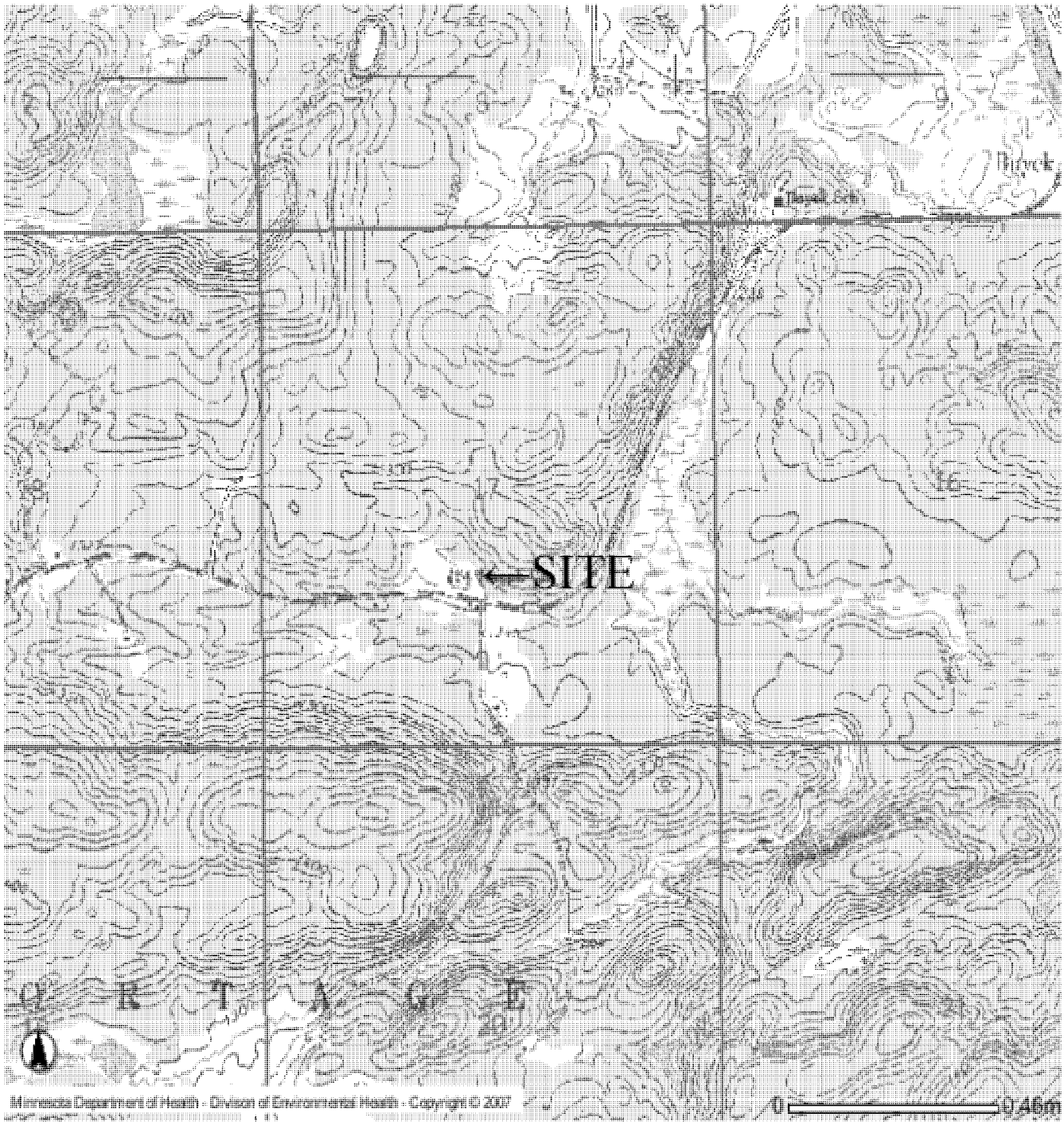
Printed 6/26/2008
HE-01205-07

SITE SUMMARY

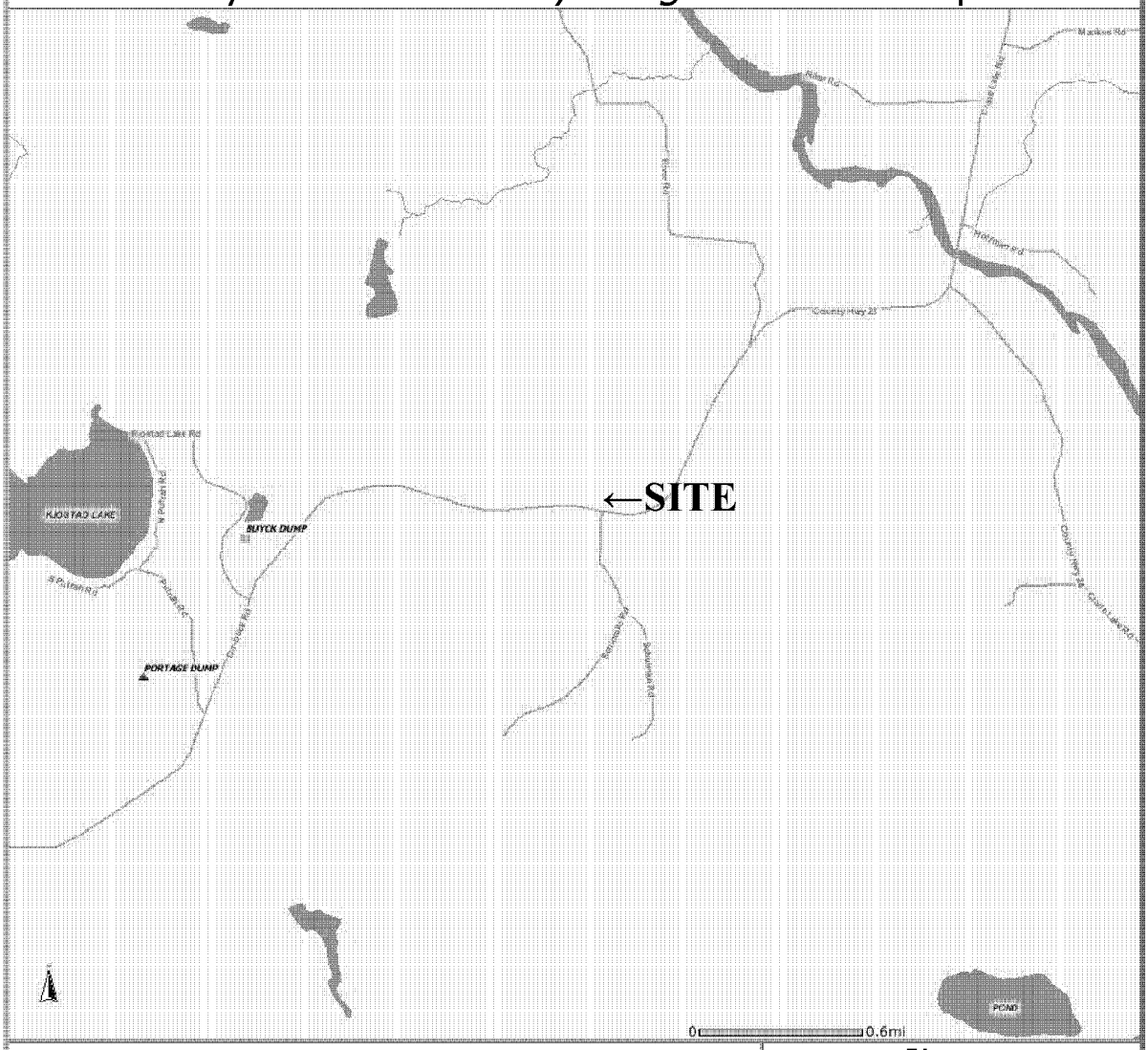
Site Name:	Buyck
Fire Department:	Buyck Volunteer Fire Department 8035 Orr-Buyck Road Buyck, MN 55771
Site Contact:	Not provided

Training Location:	8035 Orr-Buyck Road, Buyck
Type of foam used in training:	Not specified
Foam training frequency:	Annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Ground
Annual foam use:	Not specified
Nearest surface water:	An unnamed stream between 1/4 and 1/3 mile east
Nearest wetland:	Less than 1/8 mile south
Nearest water well:	More than 1 mile
Nearest Wellhead Protection Area:	More than 1 mile
SITE RANKING:	**14**

BUYCK CWI Well Map



Buyck *What's In My Neighborhood* Map



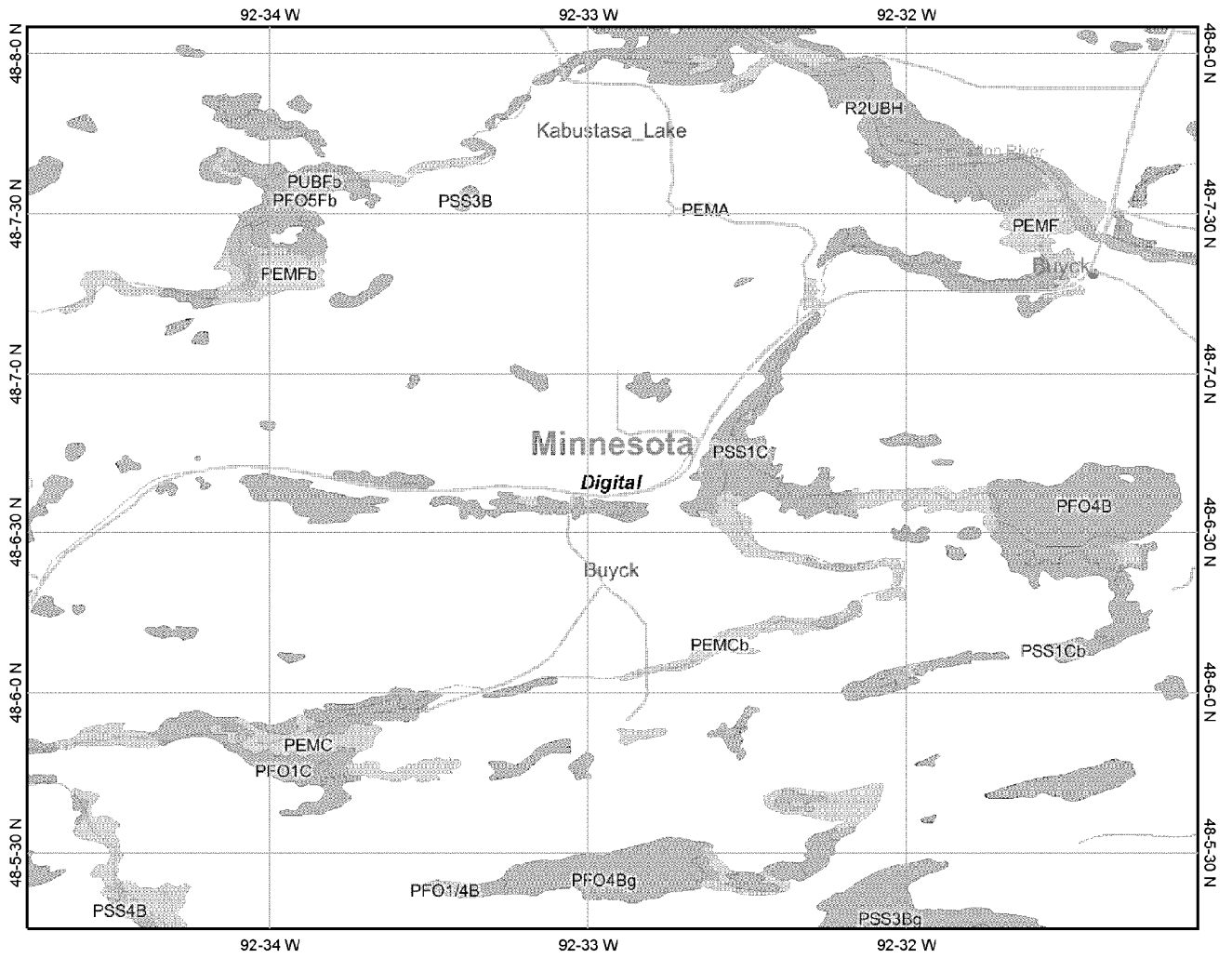
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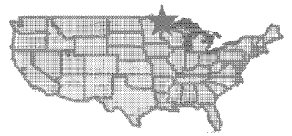
Minnesota Pollution Control Agency

Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NPL/NAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

Buyck Wetland Map





Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:36,676

Map center: 48° 6' 40" N, 92° 32' 55" W

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2222.1158

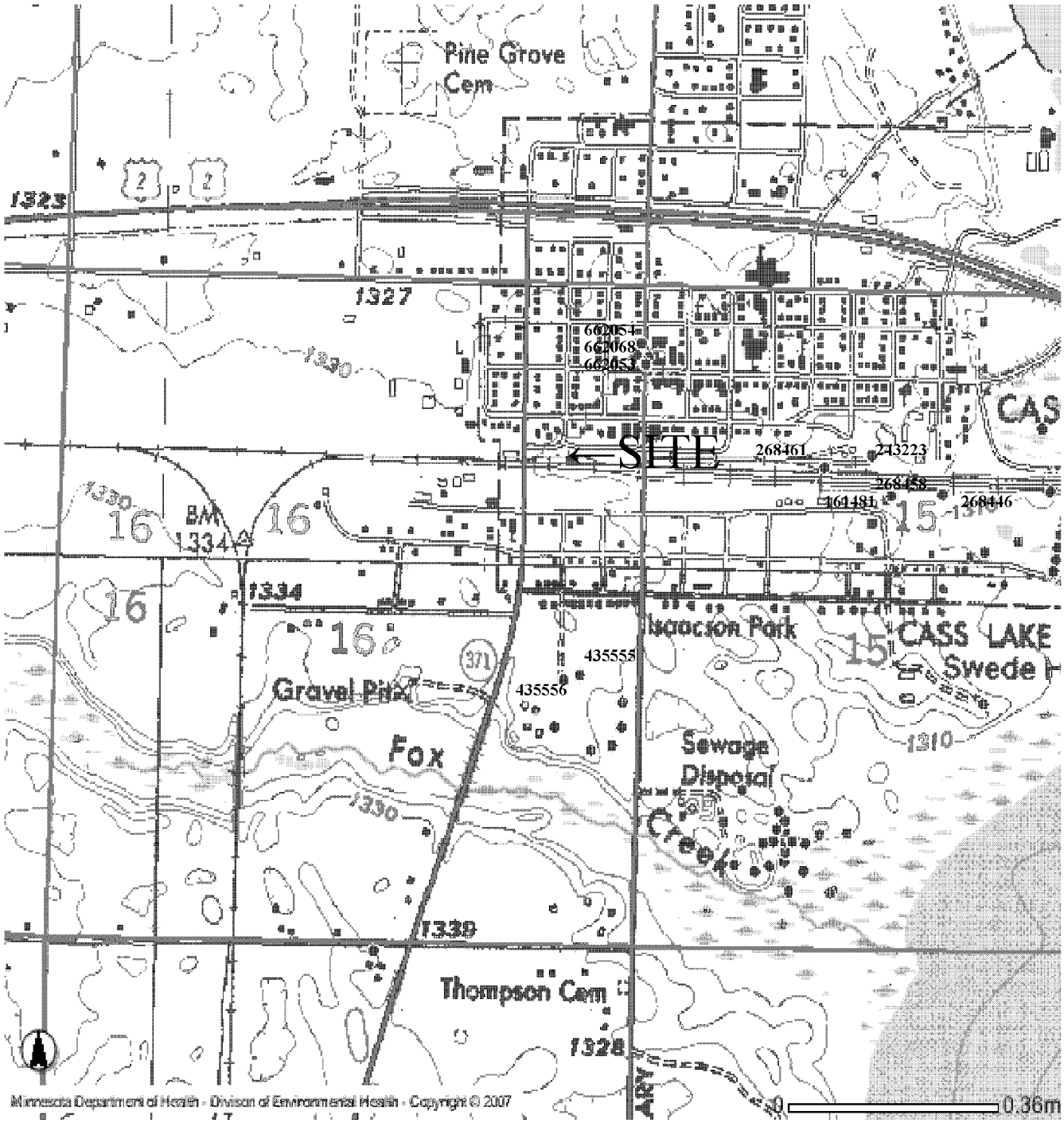
STATE_02822115

SITE SUMMARY

Site Name:	Cass Lake
Fire Department:	Cass Lake Volunteer Fire Department Box 824 Cass Lake, MN 56633
Site Contact:	Timothy Reiplinger, Fire Chief 218-335-6195 clfire@arvig.net

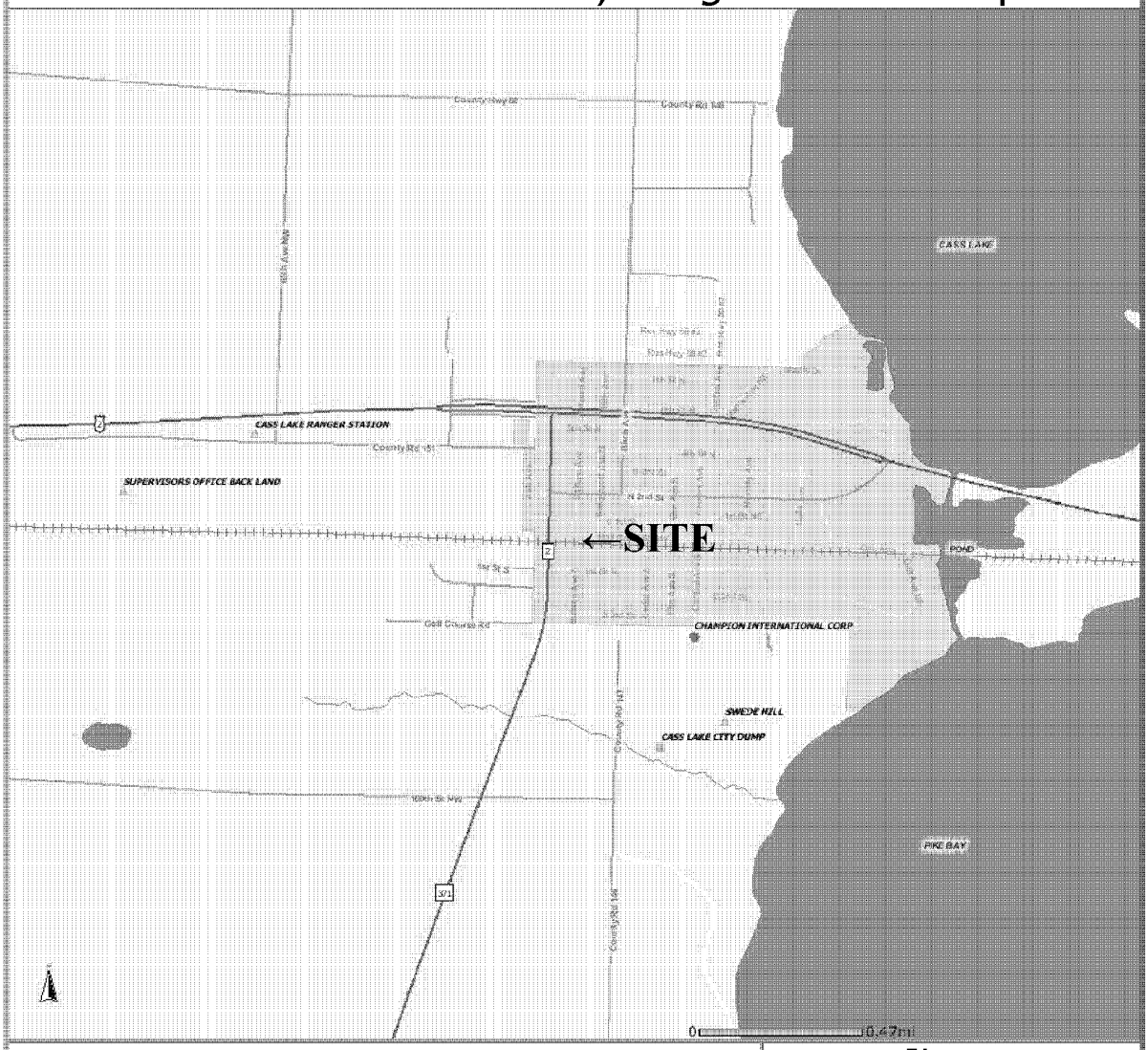
Training Location:	Railroad right-of-way by 8 Railroad Street NW, Cass Lake
Type of foam used in training:	AFFF: Angus First Strike Class B: Silv-ex
Foam training frequency:	Annually
Foam use per training event:	5 to 10 gallons
Spent foam destination:	Ground
Annual foam use:	AFFF: 0 to 5 gallons AR-AFFF: 0 to 5 gallons Class B: 20 to 25 gallons
Nearest surface water:	Fox Creek located between 1/2 and 2/3 mile south
Nearest wetland:	Between 1/2 and 2/3 mile south
Nearest water well:	Less than 1/4 mile northeast
Nearest Wellhead Protection Area:	More than 1 mile
SITE RANKING:	**9**

CASS LAKE CWI Well Map



STATE_02822117

Cass Lake *What's In My Neighborhood* Map



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Minnesota Pollution Control Agency

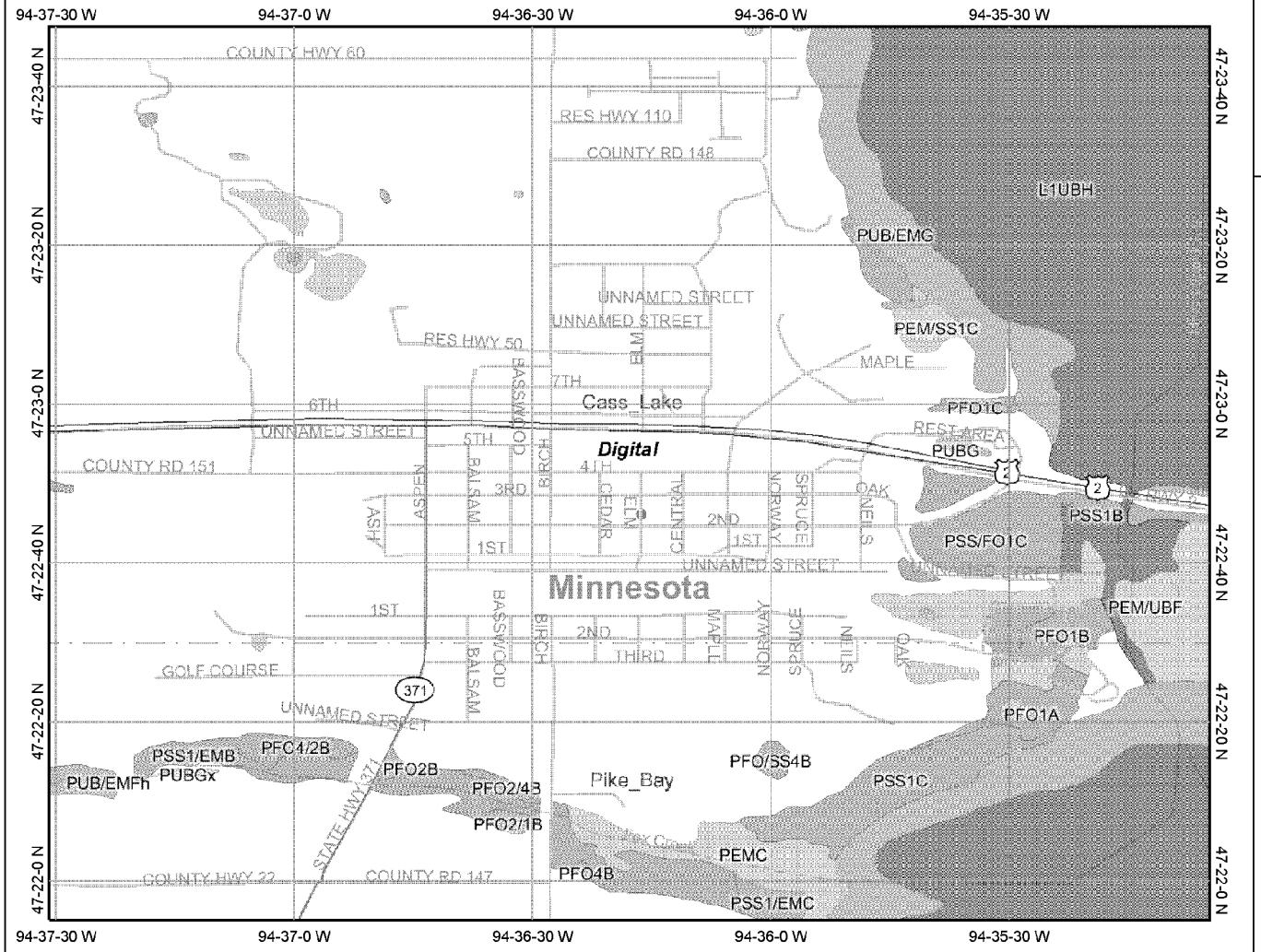
Sites

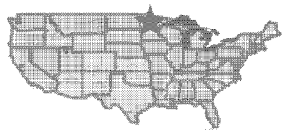
- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dump
- NPL/AP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

STATE_02822118

2222.1161

Cass Lake Wetland Map





Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

N

Scale: 1:24,313

Map center: 47° 22' 51" N, 94° 36' 18" W

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2222.1162

STATE_02822119

Minnesota Unique Well No.
161481

County Cass
Quad Cass Lake
Quad ID 301A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 02/24/1989
Update Date 08/06/2007
Received Date

Well Name CHAMPION INT.CORP.
Township Range Dir Section Subsections Elevation 1319 **ft.**
145 31 W 15 BDACAB **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
35 **ft.**	35 **ft.**	11/05/1985

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Pump out well

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 2 **ft.**

Casing Diameter	Weight	Hole Diameter
6 in. to 25 ft.	18.97 lbs./ft.	12 in. to 35 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
6	15	10	0 ft. and ft.

Static Water Level
12 ft. from Land surface Date Measured 12/12/1985

PUMPING LEVEL (below land surface)
27 ft. after 1 hrs. pumping 20 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
CASS LAKE MN 56633

Geological Material	Color	Hardness	From	To
SAND & GRAVEL	BROWN	HARD	0	10
SAND & GRAVEL,CEMENTED	BROWN	HARD	10	35

REMARKS
.75 MILES E. OF HWY. 371
401
WHEELER DIVISION

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Bentonite from to ft.

Located Minnesota Pollution Control Agency
Method Digitization (Screen) - Map (1:12,000)
Unique Number
Verification Information from owner
Date 07/26/2007
System *UTM - Nad83, Zone15, Meters*
X: 379310 **Y:** 5248244

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed 12/12/1985
Manufacturer's name GRUNDFAS Model number SP4-8 HP _ Volts 230
Length of drop Pipe 12 ft. Capacity 15 g.p.m
Type Submersible Material Galvanized

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Bergerson-Caswell 27058 NUBBE, D
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Unknown deposit type
Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **161481** | Printed 6/26/2008 HE-01205-07

Minnesota Unique Well No.
243223

County Cass
Quad Cass Lake
Quad ID 301A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 11/12/2001
Update Date 09/17/2007
Received Date

Well Name USGS TEST WELL
Township Range Dir Section Subsections Elevation 1321 **ft.**
145 31 W 15 BADCCD **Elevation Method** Surveyed

Well Depth	Depth Completed	Date Well Completed
63 **ft.**	23 **ft.**	08/04/1986

Drilling Method Power Auger

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Observation well

Casing Type Galvanized **Joint** Threaded **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 1 **ft.**

Casing Diameter	Weight	Hole Diameter
2 in. to 20 ft.	lbs./ft.	4.5 in. to ft.
2 in. to 23 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** **Type** plastic

Diameter	Slot/Gauze	Length	Set Between
2	10	2	20 ft. and 22 ft.

Geological Material	Color	Hardness	From	To
CLEAN, COARSE SAND	RED/BRN	SOFT	0	5
FINE-MED SAND	BROWN	SOFT	5	15
CLEAN, COARSE SAND	GRY/BRN	SOFT	15	40
MED. SILTY SAND	GRY/BRN	SOFT	40	50
MED-CRS SAND	GRY/BRN	SOFT	50	60
CLAY, SILT & SAND	GRAY	HARD	60	63

Static Water Level
17.5 ft. from Land surface Date Measured 08/09/1986

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
WELL LOC: 0.8 MILES OFF 371, NEAR TRAIN TRACKS AND BULK FUEL STORAGE.
FUEL OIL SMELL TO SEDIMENTS NEAR WATER TABLE!
----- MNDNR OBWELL NO.: 11016

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Neat Cement from 0 to 17 ft.

Located United States Geological Survey **Method** Digitization (Screen) - Map (1:24,000)
Unique Number
Verification Information from owner **Date** 09/17/2007
System *UTM - Nad83, Zone15, Meters* **X:** 379270 **Y:** 5248352

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☑ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
United States Geological Survey USGS STARK, J.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat
Aquifer
Depth to Bedrock ft.

STATE_02822121

2222.1164

County Well Index Online Report	243223	Printed 6/26/2008 HE-01205-07

Minnesota Unique Well No.
268446

County Cass
Quad Cass Lake
Quad ID 301A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 07/24/2007
Update Date 07/27/2007
Received Date

Well Name ST REGIS PAPER - 104
Township Range Dir Section Subsections Elevation 1315.4 **ft.**
145 31 W 15 ACBBCD **Elevation Method** Surveyed

Well Depth	Depth Completed	Date Well Completed
22 ft.	22 ft.	01/27/1982

Drilling Method Water Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Monitor well

Casing Type Galvanized **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter

Open Hole from ft. to ft.

Screen YES **Make** **Type** galvanized

Diameter	Slot/Gauze	Length	Set Between
4		10	11 ft. and 21 ft.

Geological Material	Color	Hardness	From	To
SAND	BROWN		0	22
			22	22

Static Water Level
12 ft. from Land surface Date Measured 01/27/1982

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
CHAMPION INTERNATIONAL SUPERFUND SITE - MW 104

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Cuttings from 8.5 to 22 ft.
Grout Material: Neat Cement from to 8.5 ft.

Located Minnesota Pollution Control Agency **Method** Digitization (Screen) - Map (1:12,000)

Unique Number Verification Information from owner **Date** 07/26/2007

System *UTM - Nad83, Zone15, Meters* **X:** 379467 **Y:** 5248257

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
North Star Drilling 49588 OOTHOUDT, T
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat
Aquifer Quat. Water Table Aquifer
Depth to Bedrock ft.

County Well Index Online Report **268446** Printed 6/26/2008 HE-01205-07

Minnesota Unique Well No.
268458

County Cass
Quad Cass Lake
Quad ID 301A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 07/24/2007
Update Date 07/30/2007
Received Date

Well Name ST REGIS PAPER - 218
Township Range Dir Section Subsections Elevation 1317.6 **ft.**
145 31 W 15 BDABDD **Elevation Method** Surveyed

Well Depth	Depth Completed	Date Well Completed
39 **ft.**	38 **ft.**	12/29/1984

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Monitor well

Casing Type Stainless Steel **Joint** Threaded **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
2 in. to 33 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
2		5	33 ft. and 38 ft.

Geological Material	Color	Hardness	From	To
SILTY SAND	DK. BRN		0	3
FINE SAND (POOR GRADED)	BROWN		3	36
SANDY CLAY	GRAY		36	38

Static Water Level
15 ft. from Land surface Date Measured 12/29/1984

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
CHAMPION INTERNATIONAL SUPERFUND SITE - MW 218

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Other from 25 to 39 ft.
Grout Material: Neat Cement from to 25 ft.

Located Minnesota Pollution Control Agency
Method Digitization (Screen) - Map (1:12,000)
Unique Number Verification Information from owner
Date 07/26/2007
System *UTM - Nad83, Zone15, Meters*
X: 379324 **Y:** 5248253

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
BRABENDER, L.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat
Aquifer Quat. Water Table Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **268458** | Printed 6/26/2008 HE-01205-07

Minnesota Unique Well No.
268461

County Cass
Quad Cass Lake
Quad ID 301A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 07/25/2007
Update Date 07/31/2007
Received Date

Well Name ST REGIS PAPER - 102
Township Range Dir Section Subsections Elevation 1320.8 **ft.**
145 31 W 15 BDBABC **Elevation Method** Surveyed

Well Depth	Depth Completed	Date Well Completed
121 **ft.**	121 **ft.**	02/10/1982

Drilling Method Mud Rotary

Geological Material	Color	Hardness	From	To
FINE SAND	BROWN		0	16
FINE SAND	BROWN		16	24
MEDIUM SAND	BROWN		24	34
CLAYEY SAND	DK. GRY		34	45
SILTY SAND	GRAY		45	57
COARSE GRAINED SAND	GRAY		57	58
SILTY SAND	GRAY		58	72
FINE SILTY SAND	GRAY		72	75
SANDY CLAYEY SILT	DK. GRY		75	77
CLAYEY SILT	DK. GRY		77	89
CLAYEY SAND W/GRAVEL	YEL/BRN		89	99
SILTY SAND W/GRAVEL & COBBLES	YEL/BRN		99	103
FINE GRAINED SAND	YEL/BRN		103	109
SILTY SAND W/ SOME GRAVEL	GRY/BRN		109	117
CLAYEY SAND	GRAY		117	121

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Monitor well

Casing Type Galvanized **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 105 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** **Type** galvanized

Diameter	Slot/Gauze	Length	Set Between
4		10	105 ft. and 115 ft.

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Grout Material: Neat Cement from to 100 ft.

Located Minnesota Pollution Control Agency
Method Digitization (Screen) - Map (1:12,000)
Unique Number
Verification Information from owner
Date 07/26/2007
System *UTM - Nad83, Zone15, Meters* **X:** 379139 **Y:** 5248323

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Twin City Testing 1393 ZAK, M
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat
Aquifer
Depth to Bedrock ft.

County Well Index Online Report

268461

Printed 6/26/2008
HE-01205-07

STATE_02822125

2222.1168

Minnesota Unique Well No.
435555

County Cass
Quad Pike Bay
Quad ID 301D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 09/25/1992
Update Date 08/01/2007
Received Date

Well Name ST REGIS PAPER - MW 125

Township	Range	Dir	Section	Subsections	Elevation Method	Elevation
145	31	W	16	DAACBD	Calc from DEM (USGS 7.5 min or equiv.)	1322 ft.

Well Depth	Depth Completed	Date Well Completed
31 ft.	31 ft.	10/20/1987

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Monitor well

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 2 ft.

Casing Diameter	Weight	Hole Diameter
6 in. to 16 ft.	19 lbs./ft.	6 in. to 31 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
	10	15	16 ft. and 31 ft.

Well Address

CASS LAKE MN 56633

Geological Material	Color	Hardness	From	To
SAND	BROWN	SOFT	0	31

Static Water Level
22.8 ft. from Land surface Date Measured 10/20/1987

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
E. HWY. 371 - S. OF RR TRACKS. #125.
CHAMPION INTERNATIONAL SUPERFUND SITE - MW 125

Grouting Information Well Grouted? ☐ Yes ☑ No

Located Minnesota Pollution Control Agency **Method** Digitization (Screen) - Map (1:12,000)

Unique Number Verification Information from owner **Date** 07/26/2007

System *UTM - Nad83, Zone15, Meters* **X:** 378462 **Y:** 5247821

Nearest Known Source of Contamination
0 feet direction Waste pile type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number HP Volts
Length of drop Pipe ft. Capacity g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
North Star Drilling 48038 BEUNING, WALT
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat
Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **435555** | Printed 6/26/2008 HE-01205-07

Minnesota Unique Well No.
435556

County Cass
Quad Pike Bay
Quad ID 301D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 09/25/1992
Update Date 08/01/2007
Received Date

Well Name ST REGIS PAPER - MW 124

Township	Range	Dir	Section	Subsections	Elevation	Elevation Method
145	31	W	16	DABDDA	1322 ft.	Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
32 ft.	32 ft.	10/21/1987

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Monitor well

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 2 ft.

Casing Diameter	Weight	Hole Diameter
6 in. to 17 ft.	19 lbs./ft.	6 in. to 32 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** steel (non-stainless)

Diameter	Slot/Gauze	Length	Set Between
	10	15	17 ft. and 32 ft.

Well Address

CASS LAKE MN 56633

Geological Material	Color	Hardness	From	To
SAND	BROWN	SOFT	0	32

Static Water Level
23.4 ft. from Land surface Date Measured 10/21/1987

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
E. HWY. 371 - S. OF RR TRACKS. #124.
CHAMPION INTERNATIONAL SUPERFUND SITE - MW 125

Grouting Information Well Grouted? ☐ Yes ☑ No

Located Minnesota Pollution Control Agency **Method** Digitization (Screen) - Map (1:12,000)

Unique Number Verification Information from owner **Date** 07/26/2007

System *UTM - Nad83, Zone15, Meters* **X:** 378417 **Y:** 5247810

Nearest Known Source of Contamination
0 feet direction Waste pile type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number HP Volts
Length of drop Pipe ft. Capacity g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
North Star Drilling 48038 BEUNING, WALT
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock **Aquifer**
Last Strat **Depth to Bedrock** ft.

County Well Index Online Report **435556** Printed 6/26/2008 HE-01205-07

STATE_02822127

2222.1170

Minnesota Unique Well No.
662053

County Cass
Quad Cass Lake
Quad ID 301A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 11/27/2001
Update Date 01/29/2008
Received Date 08/24/2001

Well Name MW-1

Township	Range	Dir	Section	Subsections	Elevation
145	31	W	15	BBBCCC	1329 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
30 ft.	26 ft.	07/23/2001

Drilling Method Auger (non-specified)

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below** ft.

Casing Diameter	Weight	Hole Diameter
2 in. to 16 ft.	0.69 lbs./ft.	8.25 in. to 30 ft.

Open Hole from ft. to ft.

Screen YES **Make** TIMCO **Type** plastic

Diameter	Slot/Gauze	Length	Set Between
2	10	10	16 ft. and 26 ft.

Static Water Level
20.5 ft. from Land surface Date Measured 07/23/2001

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☑ Casing Protection Y ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
2ND ST N
CASS LAKE MN 56633

Geological Material	Color	Hardness	From	To
CONCRETE SAND GRAVEL	DK. BRN	MEDIUM	0	2
GRAVELY SAND	BROWN	MEDIUM	2	4
SAND	BROWN	MEDIUM	4	18
SAND	BRN/GRY	MEDIUM	18	20
WET SAND	BRN/GRY	MEDIUM	20	26
SAND	BROWN	MEDIUM	26	30

REMARKS
WELL SEALED 12-21-2004 BY 73646
ORIGINAL USE MW - MONITOR WELL

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement	from 0 to 11 ft.	3 bags
Grout Material: Bentonite	from 11 to 13 ft.	1 bags

Located U.S. Forest Service **Method** GPS SA Off (averaged)
Unique Number Verification Tag on well **Date** 07/01/2004
System *UTM - Nad83, Zone15, Meters* **X:** 378646 **Y:** 5248574

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☑ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDII for this well? ☐ Yes ☑ No

Well Contractor Certification
Thein Well Co. 34625 HERRBOLDT, N.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Unknown deposit type
Aquifer
Depth to Bedrock ft.

County Well Index Online Report **662053** Printed 6/26/2008 HE-01205-07

STATE_02822128

2222.1171

Minnesota Unique Well No.
662054

County Cass
Quad Cass Lake
Quad ID 301A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 11/26/2001
Update Date 01/29/2008
Received Date 08/24/2001

Well Name MW-3
Township Range Dir Section Subsections Elevation 1331 **ft.**
145 31 W 16 AAADAD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
30 **ft.**	30 **ft.**	07/23/2001

Drilling Method Auger (non-specified)

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
2 in. to 20 ft.	0.69 lbs./ft.	8.25 in. to 30 ft.

Well Address
2ND ST N
CASS LAKE MN 56633

Open Hole from ft. to ft.

Screen YES **Make** TIMCO **Type** plastic

Diameter	Slot/Gauze	Length	Set Between
2	10	10	20 ft. and 30 ft.

Geological Material	Color	Hardness	From	To
CONCRETE SAND	BROWN	MEDIUM	0	2
SAND	BROWN	MEDIUM	2	22
WET SAND	BRN/GRY	MEDIUM	22	28
SAND	BROWN	MEDIUM	28	30

Static Water Level
24.5 ft. from Land surface Date Measured 07/23/2001

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☑ Casing Protection Y ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
MW # 3
WELL SEALED 12-21-2004 BY 73646
ORIGINAL USE MW - MONITOR WELL

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement	from 0 to 15 ft.	3 bags
Grout Material: Bentonite	from 15 to 17 ft.	1 bags

Located U.S. Forest Service **Method** GPS SA Off (averaged)
Unique Number Verification N/A **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 378634 **Y:** 5248624

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☑ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
Thein Well Co. 34625 HERRBOLDT, N.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock **Aquifer**
Last Strat Unknown deposit type **Depth to Bedrock ft.**

County Well Index Online Report | **662054** | Printed 6/26/2008 HE-01205-07

STATE_02822129

2222.1172

Minnesota Unique Well No.
662068

County Cass
Quad Cass Lake
Quad ID 301A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 11/26/2001
Update Date 01/29/2008
Received Date 08/24/2001

Well Name MW-2

Township	Range	Dir	Section	Subsections	Elevation
145	31	W	15	BBBCCB	1329 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
30 ft.	28 ft.	07/23/2001

Drilling Method Auger (non-specified)

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below** ft.

Casing Diameter	Weight	Hole Diameter
2 in. to 18 ft.	0.69 lbs./ft.	8.25 in. to 30 ft.

Open Hole from ft. to ft.

Screen YES **Make** TIMCO **Type** plastic

Diameter	Slot/Gauze	Length	Set Between
2	10	10	18 ft. and 28 ft.

Well Address
GRANT UTLEY AV
CASS LAKE MN

Geological Material	Color	Hardness	From	To
CONCRETE SAND	BROWN	MEDIUM	0	2
SAND	BROWN	MEDIUM	2	18
WET SAND	BRN/GRY	MEDIUM	18	26
SAND BLK/BRN/GRY	VARIED	MEDIUM	26	28
SAND	BRN/GRY	MEDIUM	28	30

Static Water Level
22 ft. from Land surface Date Measured 07/23/2001

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☑ At-grade (Environmental Wells and Borings ONLY)

REMARKS
MW #2
SUMMIT
WELL SEALED 12-21-2004 BY 73646
ORIGINAL USE MW - MONITOR WELL

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement	from 0 to 13 ft.	3 bags
Grout Material: Bentonite	from 13 to 15 ft.	1 bags

Located U.S. Forest Service **Method** GPS SA Off (averaged)
Unique Number Verification N/A **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 378654 **Y:** 5248592

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☑ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

First Bedrock
Last Strat Unknown deposit type
Aquifer
Depth to Bedrock ft.

Well Contractor Certification
Thein Well Co. 34625 HERRBOLDT, N.
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report **662068** Printed 6/26/2008
HE-01205-07

SITE SUMMARY

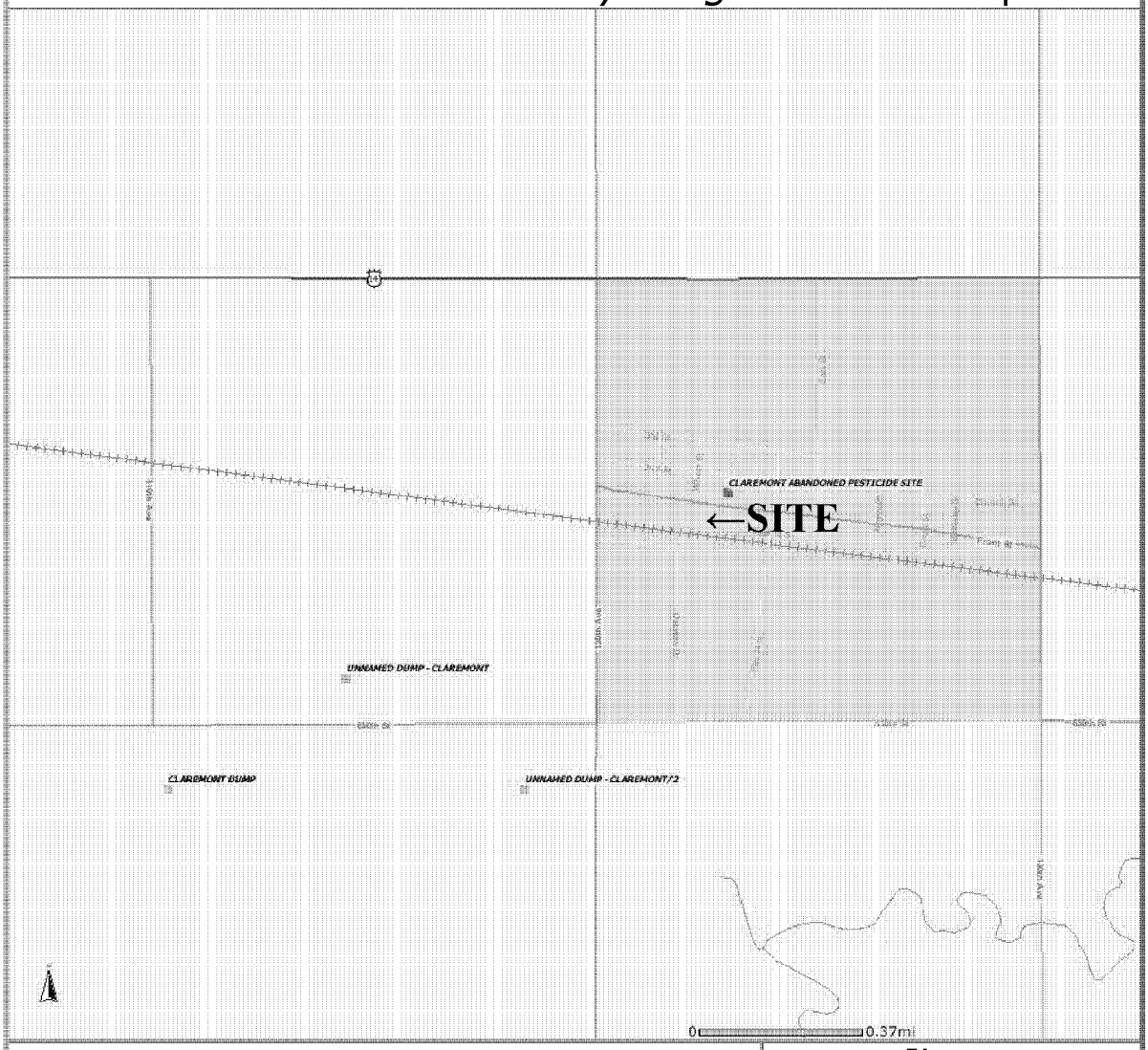
Site Name:	Claremont
Fire Department:	Claremont Fire Department Box D Claremont, MN 55924
Site Contact:	Jeff Cowell, 2nd Assistsant Fire Chief Training Officer 507-528-2701

Training Location:	In front of fire hall on Front Street, Claremont
Type of foam used in training:	AR-AFFF: 3M
Foam training frequency:	Annually
Foam use per training event:	5 gallons
Spent foam destination:	Storm sewer
Annual foam use:	AR-AFFF: Approximately 20 gallons Class A: 5 gallons
Nearest surface water:	Intermittent stream 1/4 to 1/2 mile southeast
Nearest wetland:	More than 1 mile
Karst:	Site located in transition or covered karst area
Nearest water well:	Less than 1/8 mile southwest
Nearest Wellhead Protection Area:	More than 1 mile
SITE RANKING:	**18**

CLAREMONT CWI Well Map



Claremont *What's In My Neighborhood* Map



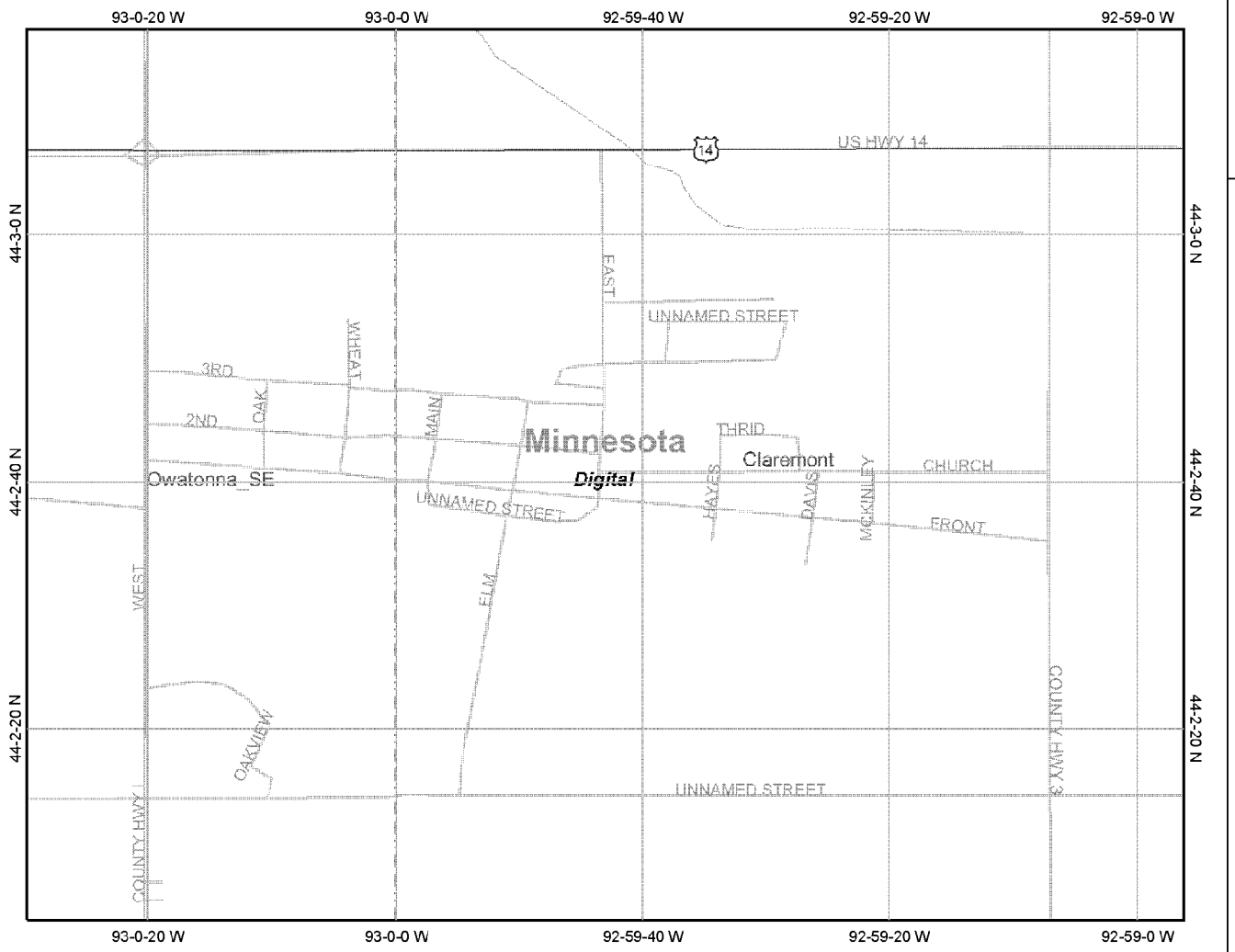
Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

Minnesota Pollution Control Agency

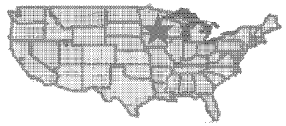
Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- HFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

Claremont



Map center: 44° 2' 41" N, 92° 59' 43" W



Legend

Ohio_wet_scan
- 0
- 1
- Out of range

Interstate

Major Roads
- Other Road
- Interstate
- State highway
- US highway

Roads

Cities

USGS Quad Index 24K

Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan

NHD Streams

Counties 100K

States 100K
- South America
- North America

Scale: 1:15,588

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

2222.1177

STATE_02822134

Minnesota Unique Well No.
101520

County Dodge
Quad Owatonna SE
Quad ID 52D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 02/29/1988
Update Date 01/09/2002
Received Date

Well Name K & A SUPPLY
Township Range Dir Section Subsections Elevation 1280 **ft.**
107 18 W 29 DAAAAC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
202 **ft.**	202 **ft.**	04/09/1976

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 1 **ft.**

Casing Diameter	Weight	Hole Diameter
6 in. to 123 ft.	18.97 lbs./ft.	6 in. to 202 ft.

Open Hole from 123 ft. to 202 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
CLAREMONT MN 55924

Geological Material	Color	Hardness	From	To
DRIFT	BROWN	SOFT	0	123
GALENA	WHITE	HARD	123	202

Static Water Level
38 ft. from Land surface Date Measured 04/09/1976

PUMPING LEVEL (below land surface)
72 ft. after 2 hrs. pumping 48 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Bentonite from 0 to 123 ft.

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Other, note in remarks
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 499491 **Y:** 4876784

Nearest Known Source of Contamination
200 feet N direction Other type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 04/13/1976
Manufacturer's name RED JACKET Model number 13FC
HP 5 Volts 230
Length of drop Pipe 120 ft. Capacity 50 g.p.m
Type Submersible Material Galvanized

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification

License Business Name	Lic. Or Reg. No.	Name of Driller
Christenson Well	20065	COTTRELL, J.

First Bedrock Galena
Last Strat Galena
Aquifer Galena
Depth to Bedrock 123 **ft.**

County Well Index Online Report | **101520** | Printed 6/26/2008 HE-01205-07

STATE_02822135

2222.1178

Minnesota Unique Well No.
217548

County Dodge
Quad Owatonna SE
Quad ID 52D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 02/29/1988
Update Date 04/25/2006
Received Date

Well Name CLAREMONT CREAMERY
Township Range Dir Section Subsections Elevation 1281 **ft.**
107 18 W 28 BCCDBA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
790 **ft.**	790 **ft.**	00/00/1952

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Commercial

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
in. to 129 ft.	lbs./ft.	

Open Hole from 129 ft. to 790 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
46 ft. from Land surface Date Measured 00/00/1952

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
CLAREMONT MN 55924

Geological Material	Color	Hardness	From	To
DRIFT			0	85
SAND		SOFT	85	127
GALENA			127	322
SHALE W/CARING SNDST & LIMESTONE			322	440
CAVED SANDSTONE		SOFT	440	550
LIMESTONE & SANDSTONE			550	607
LIMESTONE & SANDSTONE			607	665
LIMESTONE			665	694
DIRTY SANDSTONE		SOFT	694	790

REMARKS
CAVED IN BELOW 480 FT.
TV BY PAT SARAFOLEAN OF MDH 4-24-2006 TO ABOUT 103 FT. OBSTRUCTED.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Information from neighbor
Date 04/25/2006
System *UTM - Nad83, Zone15, Meters*
X: 499681 **Y:** 4876917

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Mccarthy Well Co. 27022
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Galena
Last Strat Prairie Du Chien Group
Aquifer Multiple
Depth to Bedrock 127 **ft.**

County Well Index Online Report

217548

Printed 6/26/2008
HE-01205-07

Minnesota Unique Well No.
256983

County Dodge
Quad Owatonna SE
Quad ID 52D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/25/2006
Update Date 04/26/2006
Received Date

Well Name CLAREMONT CREAMERY 12X8
Township Range Dir Section Subsections Elevation 1281 **ft.**
107 18 W 28 BCCDDA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
330 **ft.**	330 **ft.**	

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Commercial

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 1 **ft.**

Casing Diameter	Weight	Hole Diameter
12 in. to 140 ft.	lbs./ft.	
8 in. to 164 ft.	lbs./ft.	

Open Hole from 164 ft. to 330 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
FRONT ST
CLAREMONT MN 55924

Geological Material	Color	Hardness	From	To
GLACIAL DRIFT			0	133
GALENA LIMESTONE			133	213
GALENA LIMESTONE			213	279
GALENA LIMESTONE			279	330

Static Water Level
53.2 ft. from Land surface Date Measured 04/24/2006

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
GAMMA LOGGED & TV BY PAT SARAFOLEAN FOR MDH ON 4-24-2006.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)

Unique Number Verification Information from owner
Date 04/25/2006

System *UTM - Nad83, Zone15, Meters* **X:** 499724 **Y:** 4876877

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Borehole Geophysics Yes
First Bedrock Galena
Last Strat Galena
Aquifer Galena
Depth to Bedrock 133 **ft.**

Well Contractor Certification
Minnesota Department of Health MDH
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report | **256983** | Printed 6/26/2008 HE-01205-07

Minnesota Unique Well No.
256984

County Dodge
Quad Owatonna SE
Quad ID 52D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/25/2006
Update Date 04/26/2006
Received Date

Well Name CLAREMONT CREAMERY

Township	Range	Dir	Section	Subsections	Elevation	Elevation Method
107	18	W	28	BCCDBA	1281 ft.	7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
267 ft.	267 ft.	

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☐ Yes ☐ No **Above/Below** ft.

Casing Diameter	Weight	Hole Diameter
12 in. to 137.7 ft.	lbs./ft.	12 in. to 267 ft.

Open Hole from 137.7 ft. to 267 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
FRONT ST
CLAREMONT MN 55924

Geological Material	Color	Hardness	From	To
GLACIAL DRIFT			0	137
GALENA LIMESTONE			137	213
GALENA LIMESTONE			213	267

Static Water Level
52.4 ft. from Land surface Date Measured 04/24/2006

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
GAMMA, MULTI, AND CALIPER LOGGED 4-24-2006. LOGGED FOR MDH SE. TV BY PAT SARAFOLEAN OF MDH 4-24-2006.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number
Verification Information from owner
Date 04/25/2006
System *UTM - Nad83, Zone15, Meters*
X: 499683 **Y:** 4876930

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Borehole Geophysics Yes
First Bedrock Galena
Last Strat Galena
Aquifer Galena
Depth to Bedrock 137 ft.

Well Contractor Certification
Minnesota Department of Health MDH
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report | **256984** | Printed 6/26/2008 HE-01205-07

Minnesota Unique Well No.
256985

County Dodge
Quad Owatonna SE
Quad ID 52D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/25/2006
Update Date 04/08/2008
Received Date

Well Name CLAREMONT CREAMERY
Township Range Dir Section Subsections Elevation 1281 **ft.**
107 18 W 28 BCCDCB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
0 **ft.**	0 **ft.**	

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Commercial

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 1 **ft.**

Casing Diameter	Weight	Hole Diameter

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
FRONT ST
CLAREMONT MN 55924

Geological Material	Color	Hardness	From	To
NO RECORD			0	0

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)

Unique Number
Verification Information from owner
Date 04/25/2006

System *UTM - Nad83, Zone15, Meters*
X: 499637 **Y:** 4876884

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Minnesota Department of Health MDH
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat No Record
Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **256985** | Printed 6/26/2008 HE-01205-07

Minnesota Unique Well No.
256986

County Dodge
Quad Owatonna SE
Quad ID 52D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/25/2006
Update Date 04/08/2008
Received Date

Well Name CLAREMONT CREAMERY

Township	Range	Dir	Section	Subsections	Elevation
107	18	W	28	BCCDDB	1281 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
40 ft.	40 ft.	

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Commercial

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** ft.

Casing Diameter	Weight	Hole Diameter
6 in. to ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
FRONT ST
CLAREMONT MN 55924

Geological Material	Color	Hardness	From	To
NO RECORD			0	0

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
6 IN. WELL ONLY 40 FT. DEEP NOT GAMMA LOGGED OR TV ON 4-24-2006.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)

Unique Number
Verification Information from owner
Date 04/25/2006

System *UTM - Nad83, Zone15, Meters* **X:** 499709 **Y:** 4876870

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Minnesota Department of Health MDH
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat No Record
Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **256986** | Printed 6/26/2008 HE-01205-07

Minnesota Unique Well No.
466339

County Dodge
Quad Owatonna SE
Quad ID 52D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 12/28/1991
Update Date 01/09/2002
Received Date

Well Name WOBBROCK, ROBERT
Township Range Dir Section Subsections Elevation 1290 **ft.**
107 18 W 28 CBCBCD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
184 **ft.**	184 **ft.**	05/21/1991

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 1 **ft.**

Casing Diameter	Weight	Hole Diameter
5 in. to 138 ft.	15 lbs./ft.	8 in. to 135 ft.
		5 in. to 184 ft.

Open Hole from 138 ft. to 184 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
RR 1
CLAREMONT MN 55924

Geological Material	Color	Hardness	From	To
CLAY	YEL/BLU	MEDIUM	0	112
SAND	TAN	SOFT	112	116
CLAY WHITE TO CREME		MEDIUM	116	132
SAND	TAN	SOFT	132	135
LIMESTONE	GRY/TAN	HARD	135	184

Static Water Level
53 ft. from Land surface Date Measured 05/21/1991

PUMPING LEVEL (below land surface)
53 ft. after 1 hrs. pumping 12 g.p.m.

Well Head Completion
Pitless adapter manufacturer BAKER Model 7PS56S4C1
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Bentonite from 0 to 135 ft. 0.75 yrds.

Located Mankato State University
Method Digitization (Screen) - Map (1:24,000)
Unique Number
Verification Information from owner
Date 06/23/2004
System *UTM - Nad83, Zone15, Meters* **X:** 499591 **Y:** 4876549

Nearest Known Source of Contamination
60 feet North West direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☑ Not Installed Date Installed 05/25/1991
Manufacturer's name AEROMOTOR Model number A12B50
HP 0.5 Volts 230
Length of drop Pipe 66 ft. Capacity 12 g.p.m
Type Submersible Material Steel (black or low carbon)

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Born Well Co. 81162 BORN, D.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Galena
Last Strat Galena
Aquifer Galena
Depth to Bedrock 135 **ft.**

County Well Index Online Report **466339** Printed 6/26/2008 HE-01205-07

Minnesota Unique Well No.
521068

County Dodge
Quad Owatonna SE
Quad ID 52D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 06/14/1993
Update Date 01/09/2002
Received Date

Well Name

Township Range Dir Section Subsections Elevation 1278 **ft.**

107 18 W 28 CCCCDB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
262 **ft.**	262 **ft.**	00/00/1993

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
5 in. to 142 ft.	15 lbs./ft.	8 in. to 142 ft.
		4 in. to 262 ft.

Open Hole from 142 ft. to 262 ft.

Screen NO **Make** **Type**

Diameter **Slot/Gauze** **Length** **Set Between**

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model 6PS56S4C1
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
RR 1
CLAREMONT MN 55924

Geological Material	Color	Hardness	From	To
SOIL	BLACK	SOFT	0	2
CLAY	YEL/WHT	SOFT	2	4
GRAVEL	BROWN	SOFT	4	18
SANDY CLAY	YEL/WHT	SOFT	18	33
CLAY	BLUE	SOFT	33	73
CLAY	BROWN	SOFT	73	121
SAND	WHITE	SOFT	121	142
LIMESTONE	TAN	HARD	142	220
LIMESTONE	LT. GRY	HARD	220	262

REMARKS
OAKVIEW ESTATES ADD. BLK 2 LOTS 1 & 2.

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Bentonite from 0 to 142 ft. 1.25 yrds.

Located **Method** Digitization (Screen) - Map (1:24,000)

Unique Number Verification Information from owner **Date** 03/26/2002

System *UTM - Nad83, Zone15, Meters* **X:** 499593 **Y:** 4876068

Nearest Known Source of Contamination
52 feet W direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☑ Not Installed Date Installed 01/23/1993
Manufacturer's name AERMOTOR Model number A12B50
HP 0.5 Volts 230
Length of drop Pipe ft. Capacity 12 g.p.m Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Born Well Co. 81162 BORN, R.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Galena **Aquifer** Galena
Last Strat Galena **Depth to Bedrock** 142 **ft.**

County Well Index Online Report **521068** Printed 6/26/2008 HE-01205-07

Minnesota Unique Well No.
698973

County Dodge
Quad Owatonna SE
Quad ID 52D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date
Update Date 08/02/2006
Received Date 11/14/2003

Well Name MW-1
Township Range Dir Section Subsections Elevation 1282 **ft.**
107 18 W 28 CBADAA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
15 **ft.**	15 **ft.**	10/20/2003

Drilling Method Auger (non-specified)

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Monitor well

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
2 in. to 5 ft.	0.69 lbs./ft.	8.25 in. to 15 ft.

Open Hole from ft. to ft.

Screen YES **Make** TIMCO **Type** plastic

Diameter	Slot/Gauze	Length	Set Between
2	10	10	5 ft. and 15 ft.

Well Address
FRONT ST W
CLAREMONT MN 55924

Geological Material	Color	Hardness	From	To
CLAY	BROWN	MEDIUM	0	15

Static Water Level
5 ft. from Land surface Date Measured 10/20/2003

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☑ Casing Protection Y ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement	from 0 to 4 ft.	1 bags
Grout Material: Bentonite	from 4 to 4.5 ft.	0.5 bags

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number
Verification Tag on well
Date 04/25/2006
System *UTM - Nad83, Zone15, Meters*
X: 499923 **Y:** 4876735

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☑ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
Thein Well Co. 34625 WIEBER, A.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Clay-brown
Aquifer Quat. Water Table Aquifer
Depth to Bedrock ft.

County Well Index Online Report **698973** Printed 6/26/2008
HE-01205-07

Minnesota Unique Well No.
698974

County Dodge
Quad Owatonna SE
Quad ID 52D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date
Update Date 04/25/2006
Received Date 11/14/2003

Well Name MW-2
Township Range Dir Section Subsections Elevation 1282 **ft.**
107 18 W 28 CBAADD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
15 ft.	15 ft.	10/20/2003

Drilling Method Auger (non-specified)

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Monitor well

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
2 in. to 5 ft.	0.69 lbs./ft.	8.25 in. to 15 ft.

Open Hole from ft. to ft.

Screen YES **Make** TIMCO **Type** plastic

Diameter	Slot/Gauze	Length	Set Between
2	10	5	5 ft. and 10 ft.

Well Address
FRONT ST W
CLAREMONT MN 55924

Geological Material	Color	Hardness	From	To
CLAY	BROWN	MEDIUM	0	15

Static Water Level
5 ft. from Land surface Date Measured 10/20/2003

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☑ Casing Protection Y ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement	from 0 to 4 ft.	1 bags
Grout Material: Bentonite	from 4 to 4.5 ft.	0.5 bags

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number
Verification Tag on well
Date 04/25/2006
System *UTM - Nad83, Zone15, Meters*
X: 499929 **Y:** 4876742

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
Thein Well Co. 34625 WIEBER, A.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Clay-brown
Aquifer Quat. Water Table Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **698974** | Printed 6/26/2008 HE-01205-07

Minnesota Unique Well No.
698975

County Dodge
Quad Owatonna SE
Quad ID 52D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date
Update Date 04/25/2006
Received Date 11/14/2003

Well Name MW-3
Township Range Dir Section Subsections Elevation 1282 **ft.**
107 18 W 28 CBAADD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
15 ft.	15 ft.	10/20/2003

Drilling Method Auger (non-specified)

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Monitor well

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
2 in. to 5 ft.	0.69 lbs./ft.	8.25 in. to 15 ft.

Open Hole from ft. to ft.

Screen YES **Make** TIMCO **Type** plastic

Diameter	Slot/Gauze	Length	Set Between
2	10	10	5 ft. and 15 ft.

Well Address
FRONT ST W
CLAREMONT MN 55924

Geological Material	Color	Hardness	From	To
CLAY	BROWN	MEDIUM	0	15

Static Water Level
5 ft. from Land surface Date Measured 10/20/2003

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☑ Casing Protection Y ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement	from 0 to 4 ft.	1 bags
Grout Material: Bentonite	from 4 to 4.5 ft.	0.5 bags

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number
Verification Tag on well
Date 04/25/2006
System *UTM - Nad83, Zone15, Meters*
X: 499937 **Y:** 4876740

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☑ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
Thein Well Co. 34625 WIEBER, A.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Clay-brown
Aquifer Quat. Water Table Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **698975** | Printed 6/26/2008 HE-01205-07

Minnesota Unique Well No.
726344

County Dodge
Quad Owatonna SE
Quad ID 52D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 12/05/2005
Update Date 04/25/2006
Received Date 07/25/2005

Well Name MW-4

Township Range Dir Section Subsections Elevation 1282 **ft.**

107	18	W	28	CABCBB	**Elevation Method**	7.5 minute topographic map (+/- 5 feet)

Well Depth	**Depth Completed**	**Date Well Completed**
12 **ft.**	12 **ft.**	06/13/2005

Drilling Method Other

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Monitor well

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below ft.**

Casing Diameter	**Weight**	**Hole Diameter**
2 in. to 2 ft.	lbs./ft.	2 in. to 12 ft.

Open Hole from ft. to ft.

Screen YES **Make** TIMCO **Type** plastic

Diameter	**Slot/Gauze**	**Length**	**Set Between**
2	10	10	2 ft. and 12 ft.

Well Address
317 FRONT ST W
CLAREMONT MN 55924

Geological Material	**Color**	**Hardness**	**From**	**To**
SANDY CLAY	BLK/BRN	M.SOFT	0	4
SANDY CLAY WET SAND LENSES	BROWN	SOFT	4	8
SANDY CLAY WET SAND LENSES	BROWN	MEDIUM	8	12

Static Water Level
5 ft. from Land surface Date Measured 06/13/2005

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☑ Casing Protection Y ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
DRILLING METHOD: DIRECT PUSH PROBE

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Bentonite	from 0.5 to 1.5 ft.	1 bags
Grout Material: Neat Cement	from to 0.5 ft.	0.5 bags

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Tag on well
Date 04/25/2006
System *UTM - Nad83, Zone15, Meters*
X: 499950 **Y:** 4876722

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☑ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
Thein Well Co. 34625 HILBRANDS, B.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Clay & sand-brown
Aquifer Quat. Water Table Aquifer
Depth to Bedrock ft.

County Well Index Online Report **726344** Printed 6/26/2008 HE-01205-07

Minnesota Unique Well No.
20W0005430

County Dodge
Quad Claremont
Quad ID 51C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 07/26/1993
Update Date 07/26/1993
Received Date

Well Name LOIUS, CHARLES

Township	Range	Dir	Section	Subsections	Elevation
107	18	W	33	ABBADB	1265 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth ft.	Depth Completed ft.	Date Well Completed

Drilling Method

Drilling Fluid

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type **Joint** **Drive Shoe?** ☐ Yes ☐ No **Above/Below** ft.

Casing Diameter	Weight	Hole Diameter

Open Hole from ft. to ft.

Screen

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Public Land Survey - QQQQQQ Section
Unique Number
Verification Information from owner
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 500524 **Y:** 4875972

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat
Aquifer
Depth to Bedrock ft.

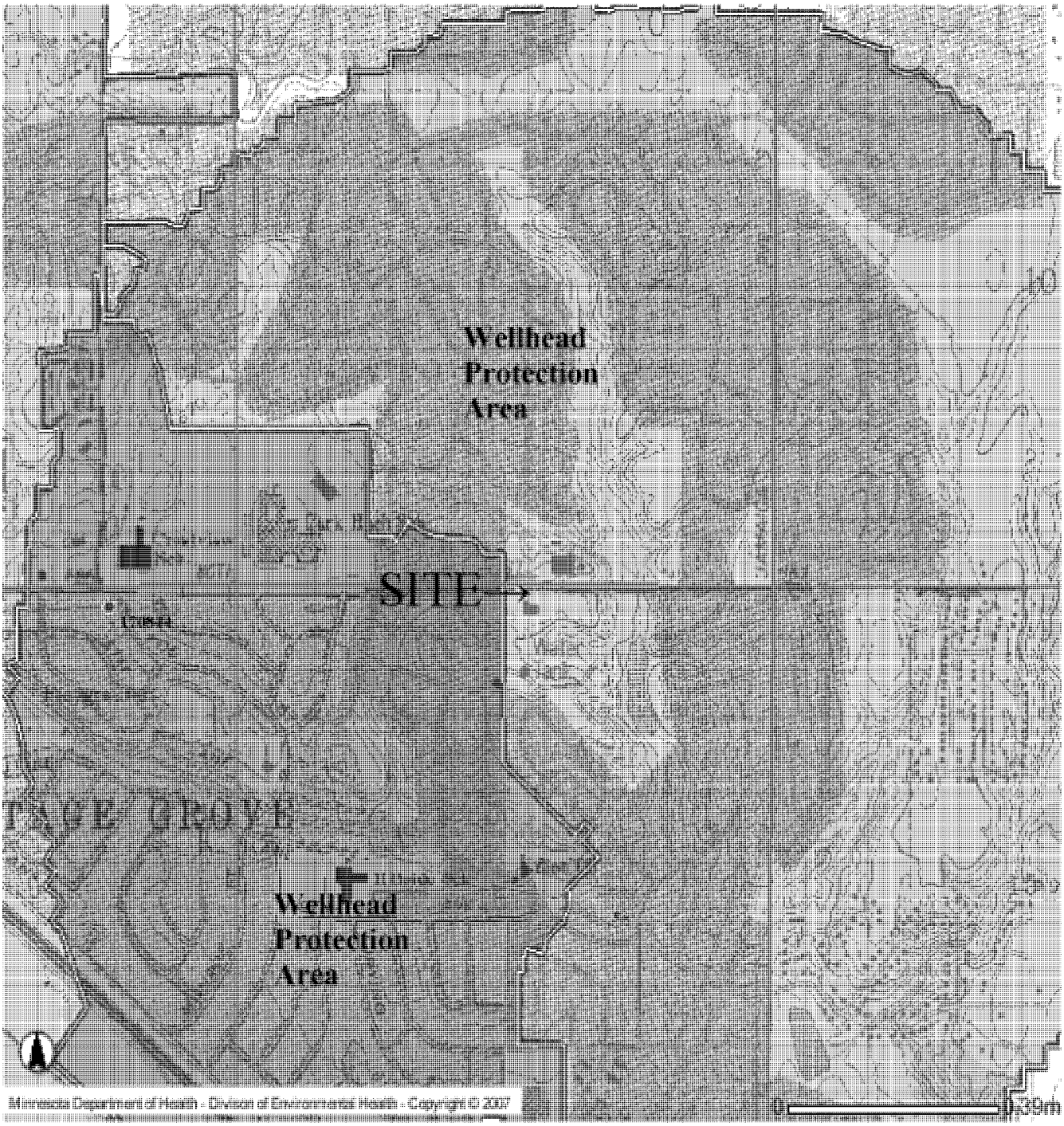
County Well Index Online Report **20W0005430** Printed 6/26/2008 HE-01205-07

SITE SUMMARY

Site Name:	Cottage Grove
Fire Department:	Cottage Grove Fire Department 8641 80th Street S. Cottage Grove, MN 55016
Site Contact:	Bob Byerly, Fire Chief 651-458-2860

Training Location:	Fire Station 2, 8641 80th Street S., Cottage Grove
Type of foam used in training:	AR-AFFF: 3M
Foam training frequency:	Very seldom
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Ground
Annual foam use:	AR-AFFF: 5 gallons Class A: 30 gallons
Nearest surface water:	Intermittent stream less than 1/4 mile to the east
Nearest wetland:	Less than 1/4 mile to the east
Karst Area:	Training site appears to be in active karst area along the river in southwestern Washington County
Nearest water well:	1/2 to 3/4 mile west
Nearest Wellhead Protection Area:	Training site is in or adjacent to a Wellhead Protection Area
SITE RANKING:	**27**

COTTAGE GROVE CWI Well Map



STATE_02822149

Cottage Grove *What's In My Neighborhood* Map



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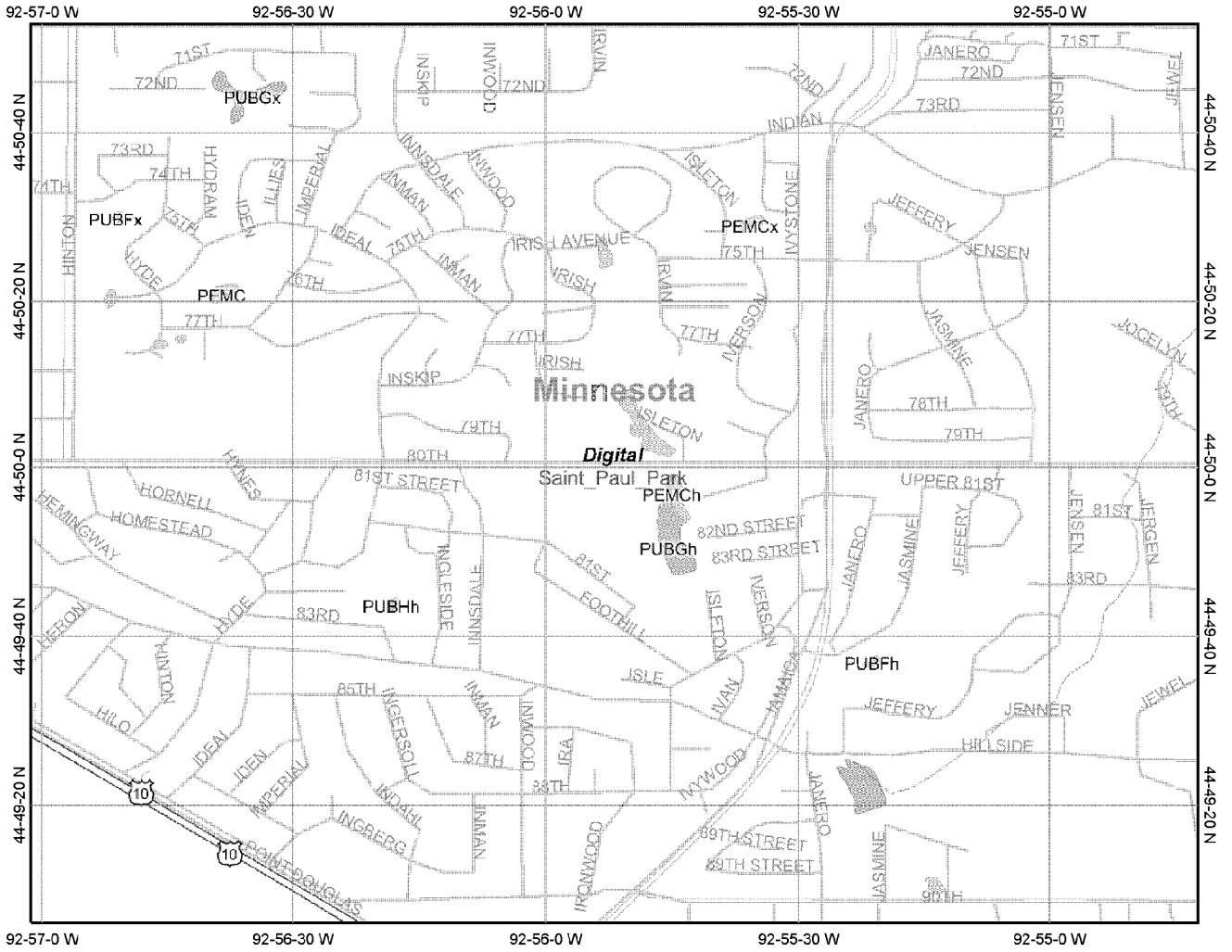
Minnesota Pollution Control Agency

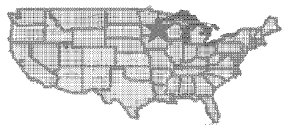
Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

STATE_02822150

Cottage Grove Wetland Map





Legend

Ohio_wet_scan

- 0
- 1
- Out of range

Interstate

Major Roads

Other Road
Interstate
State highway
US highway

Roads

Cities

USGS Quad Index 24K

Lower 48 Wetland Polygons

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

Lower 48 Available Wetland Data

- Non-Digital
- Digital
- No Data
- Scan

NHD Streams

Counties 100K

States 100K

- South America
- North America

Scale: 1:23,125

Map center: 44° 49' 59" N, 92° 55' 52" W

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2222.1194

STATE_02822151

Minnesota Unique Well No.
170844

County Washington
Quad St Paul Park
Quad ID 102C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 03/01/1989
Update Date 03/26/1996
Received Date

Well Name

Township Range Dir Section Subsections Elevation 872 **ft.**

27 21 W 17 AABBCC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
205 **ft.**	205 **ft.**	10/29/1980

Drilling Method Non-specified Rotary

Geological Material	Color	Hardness	From	To
SAND & GRAVEL	BROWN	MEDIUM	0	82
LIMEROCK	YELLOW	HARD	82	140
SANDROCK	WHITE	MEDIUM	140	146
LIMEROCK	YELLOW	HARD	146	205

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 1 **ft.**

Casing Diameter	Weight	Hole Diameter
8 in. to 85 ft.	lbs./ft.	12 in. to 85 ft.
4 in. to 184 ft.	lbs./ft.	8 in. to 184 ft.

Open Hole from 184 ft. to 205 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
74 ft. from Land surface Date Measured 10/29/1980

PUMPING LEVEL (below land surface)
74 ft. after hrs. pumping 15 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement from 0 to 184 ft. 5 yrds.

Located Minnesota Geological Survey **Method** Digitization (Screen) - Map (1:24,000)
Unique Number Verification Other, note in remarks **Date** 02/13/2004
System *UTM - Nad83, Zone15, Meters* **X:** 504038 **Y:** 4964404

Nearest Known Source of Contamination
75 feet S direction Septic tank/drain field type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 10/29/1980
Manufacturer's name FAIRBANKS Model number 10015 HP 1 Volts 230
Length of drop Pipe 126 ft. Capacity 10 g.p.m
Type Submersible Material Galvanized

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Maher Well Co. 19301 MAHER, R.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Prairie Du Chien Group **Aquifer** Prairie Du Chien Group
Last Strat Prairie Du Chien Group **Depth to Bedrock** 82 **ft.**

County Well Index Online Report | **170844** | Printed 6/27/2008 HE-01205-07

STATE_02822152

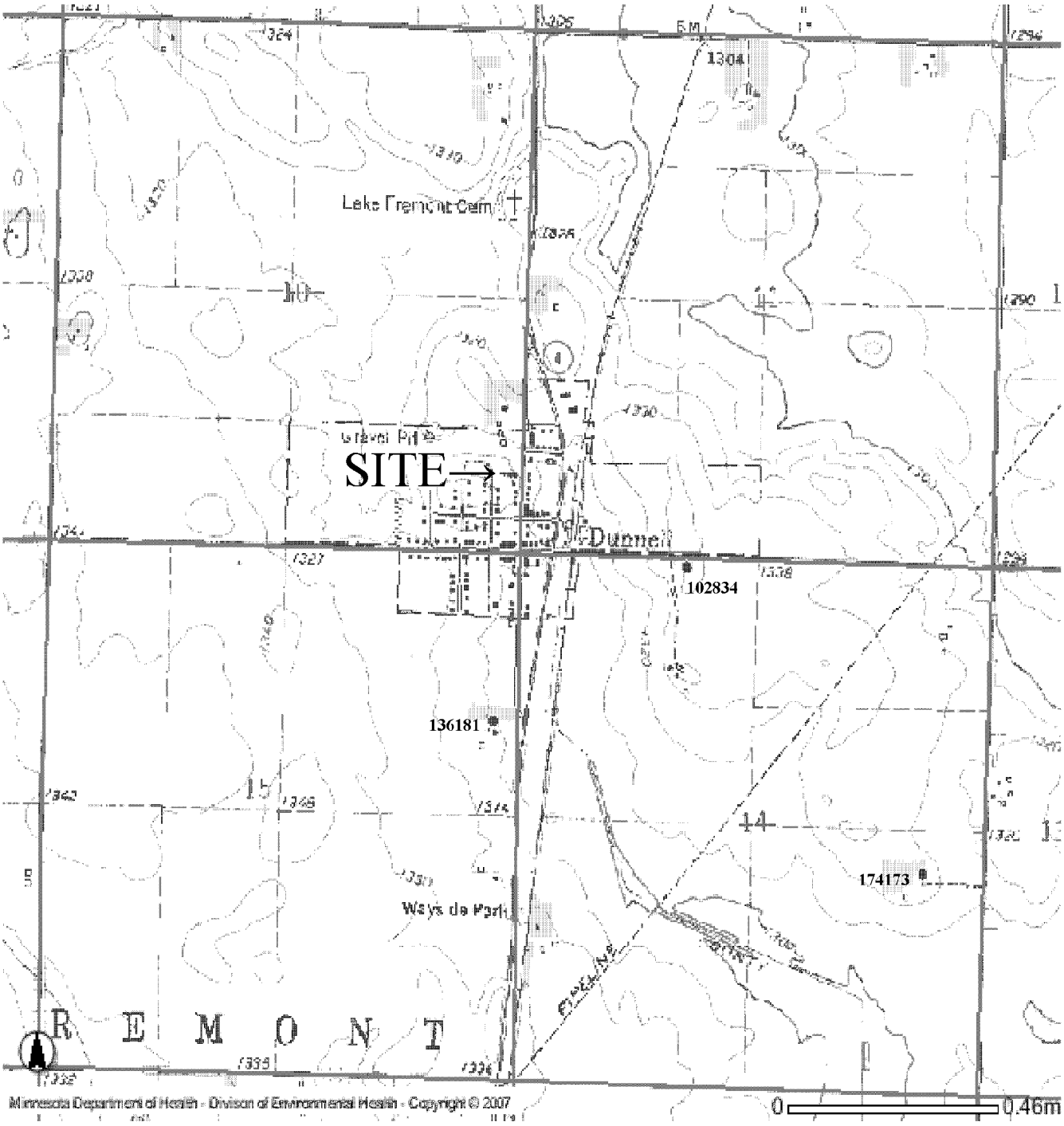
2222.1195

SITE SUMMARY

Site Name:	Dunnell
Fire Department:	Dunnell-Lake Fremont Fire Department PO Box 216 Dunnell, MN 56127
Site Contact:	Alan Helmers, Fire Chief 507-695-2950

Training Location:	Old ball diamond, N. Seeley Avenue, Dunnell
Type of foam used in training:	AFFF: Specified as Silv-ex, assumed unidentified
Foam training frequency:	Annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Ground
Annual foam use:	AFFF (Silv-ex/unidentified): 20 gallons Class A (Silv-ex): 2 gallons
Nearest surface water:	Intermittent stream 1/4 to 1/3 mile to the southeast
Nearest wetland:	1/4 to 1/3 mile to the northeast
Nearest water well:	1/3 to 1/2 mile southeast
Nearest Wellhead Protection Area:	More than 1 mile
SITE RANKING:	**5**

DUNNELL CWI Well Map



Dunnell *What's In My Neighborhood* Map



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Minnesota Pollution Control Agency

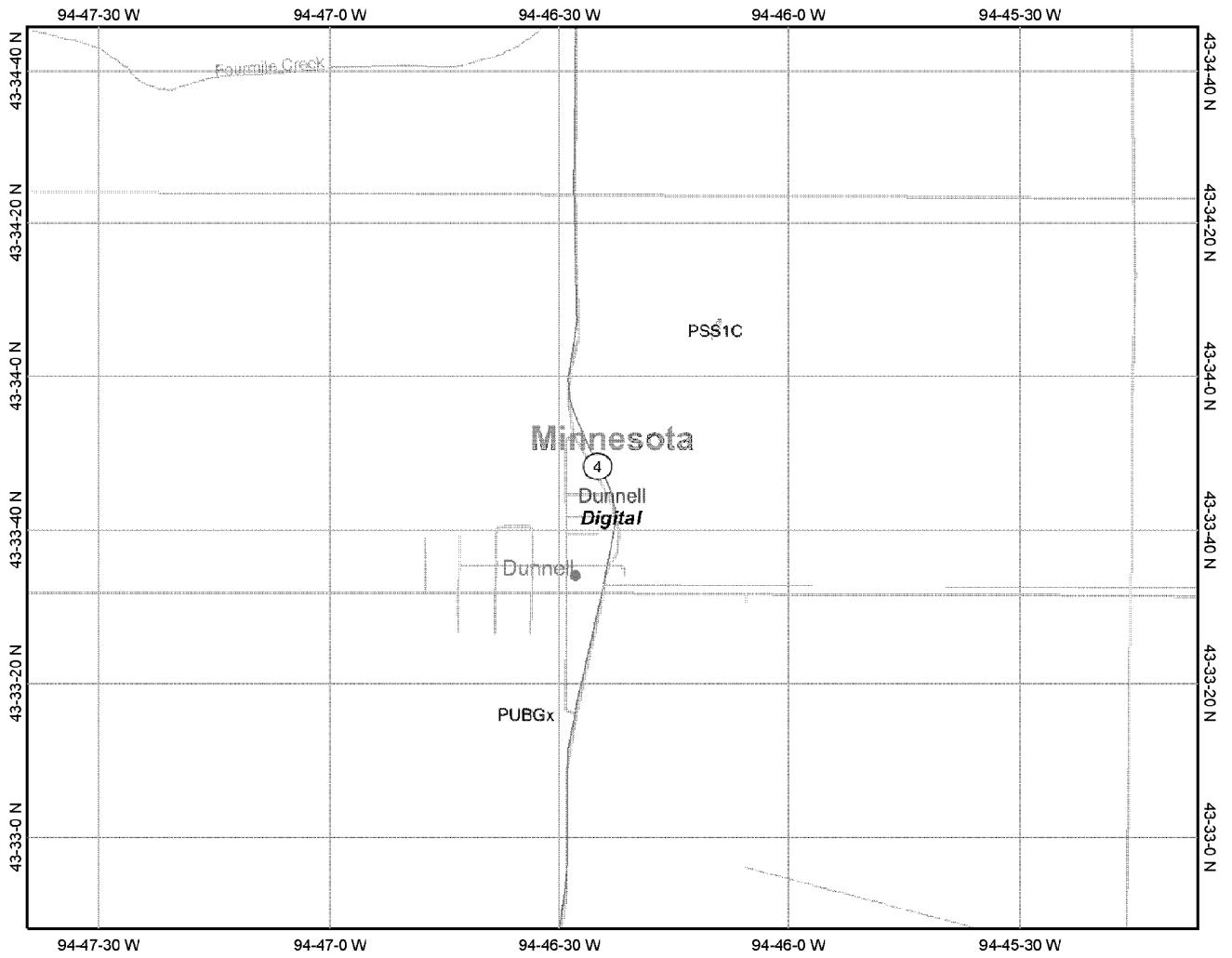
Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NPL/AP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

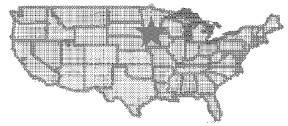
STATE_02822155

2222.1198

Dunnell Wetland Map



Map center: 43° 33' 47" N, 94° 46' 23" W



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:25,389

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2222.1199

STATE_02822156

Minnesota Unique Well No.
102834

County Martin
Quad Dunnell
Quad ID 16D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/13/1988
Update Date 07/29/2002
Received Date

Well Name NELSON, H.R.
Township Range Dir Section Subsections Elevation 1341 **ft.**
101 33 W 14 BABAAB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
234 **ft.**	234 **ft.**	11/09/1976

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type **Joint** Welded **Drive Shoe?** ☐ Yes ☑ No **Above/ Below** 1.5 **ft.**

Casing Diameter	Weight	Hole Diameter
5 in. to 230 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
5	15	5	230 ft. and 234 ft.

Geological Material	Color	Hardness	From	To
SAND & CLAY	RED	SOFT	0	25
CLAY & SAND	BLUE	SOFT	25	40
CLAY	BLUE	SOFT	40	55
CLAY & SAND	BLUE	SOFT	55	62
CLAY	BLUE	SOFT	62	130
CLAY & ROCKS	BLUE	SOFT	130	145
CLAY	BLUE	SOFT	145	210
CLAY & SAND	BLUE	SOFT	210	214
SAND	YEL/GRY	SOFT	214	234

Static Water Level
180 ft. from Land surface Date Measured 11/09/1976

PUMPING LEVEL (below land surface)
190 ft. after 24 hrs. pumping 12 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Cuttings from 0 to 200 ft.

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Plat Book
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 357245 **Y:** 4824403

Nearest Known Source of Contamination
200 feet W direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 11/11/1976
Manufacturer's name AEROMOTOR Model number SD-12-100
HP 1 Volts 230
Length of drop Pipe 204 ft. Capacity 15 g.p.m
Type Submersible Material Plastic

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

First Bedrock
Last Strat Sand
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

Well Contractor Certification
Cliff's Well Service 90325 CHRISTENSEN,B
License Business Name Lic. Or Reg. No. Name of Driller

STATE_02822157

2222.1200

County Well Index Online Report	102834	Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
136181

County Martin
Quad Dunnell
Quad ID 16D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/13/1988
Update Date 07/29/2002
Received Date

Well Name JANSSEN, WALTER

Township	Range	Dir	Section	Subsections	Elevation	
101	33	W	15	ADADBB	**Elevation Method**	1310 **ft.** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
218 **ft.**	218 **ft.**	04/24/1979

Drilling Method Non-specified Rotary

Geological Material	Color	Hardness	From	To
SAND & CLAY	BROWN	SOFT	0	25
CLAY	BLUE	SOFT	25	85
CLAY & SAND	BLU/GRY	SOFT	85	100
CLAY & ROCK	BLUE	HARD	100	130
CLAY	BLUE	HARD	130	200
CLAY & SAND	BLU/YEL	SOFT	200	205
SAND	GRAY	SOFT	205	218

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type **Joint** Threaded **Drive Shoe?** ☐ Yes ☑ No **Above/ Below** 1.5 **ft.**

Casing Diameter	Weight	Hole Diameter
5 in. to 208 ft.	14.95 lbs./ft.	8 in. to 208 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	18	10	208 ft. and 218 ft.

Static Water Level
138 ft. from Land surface Date Measured 04/24/1979

PUMPING LEVEL (below land surface)
150 ft. after 15 hrs. pumping 12 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Name on mailbox
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 356567 **Y:** 4823932

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Cuttings from to ft.

Nearest Known Source of Contamination
100 feet S direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name AEROMOTOR Model number SD-19
HP 1.5 Volts 230
Length of drop Pipe 160 ft. Capacity 19 g.p.m
Type Submersible Material Plastic

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Jerry's Well Co. 90421 CHRISTENSEN,R
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **136181** | Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
174173

County Martin
Quad Dunnell
Quad ID 16D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/13/1988
Update Date 07/29/2002
Received Date

Well Name ANDERSON, DAVE

Township	Range	Dir	Section	Subsections	Elevation
101	33	W	14	DABDDB	1322 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
198 ft.	198 ft.	06/25/1981

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 1.5 ft.

Casing Diameter	Weight	Hole Diameter
5 in. to 193 ft.	lbs./ft.	8 in. to 198 ft.

Well Address

DUNNELL MN 56127

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
5	20	5	193 ft. and 198 ft.

Geological Material	Color	Hardness	From	To
CLAY	BROWN	SOFT	0	30
CLAY	BLUE	SOFT	30	40
CLAY + SAND + ROCK	BLUE	SOFT	40	43
CLAY	BLUE	SOFT	43	115
CLAY + SAND	BLUE	SOFT	115	145
CLAY ROCKS	BLUE	HARD	145	185
SAND ROCKS	GRAY	SOFT	185	198

Static Water Level
153 ft. from Land surface Date Measured 06/25/1981

PUMPING LEVEL (below land surface)
155 ft. after 20 hrs. pumping 18 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Bentonite from 0 to 150 ft.

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number
Verification Information from owner
Date N/A

System *UTM - Nad83, Zone15, Meters*
X: 358068 **Y:** 4823462

Nearest Known Source of Contamination
150 feet North East direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☑ Not Installed Date Installed 06/26/1981
Manufacturer's name AERMOTOR Model number SS10-100
HP 1 Volts 220
Length of drop Pipe 160 ft. Capacity g.p.m
Type Submersible Material Plastic

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Jerry's Well Co. 90421 CHRISTENSEN,
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand & larger-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock 185 ft.

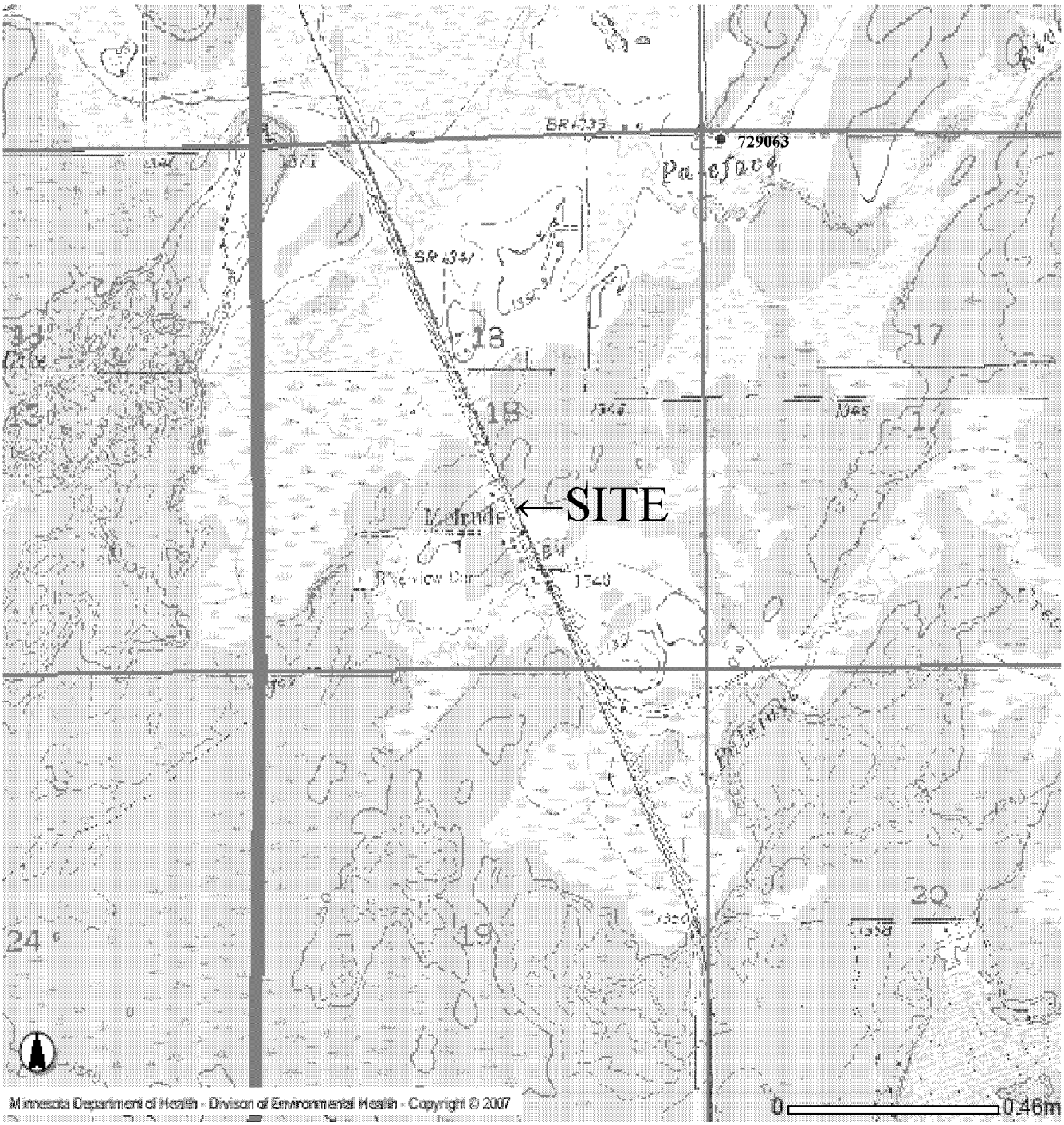
County Well Index Online Report | **174173** | Printed 6/27/2008 HE-01205-07

SITE SUMMARY

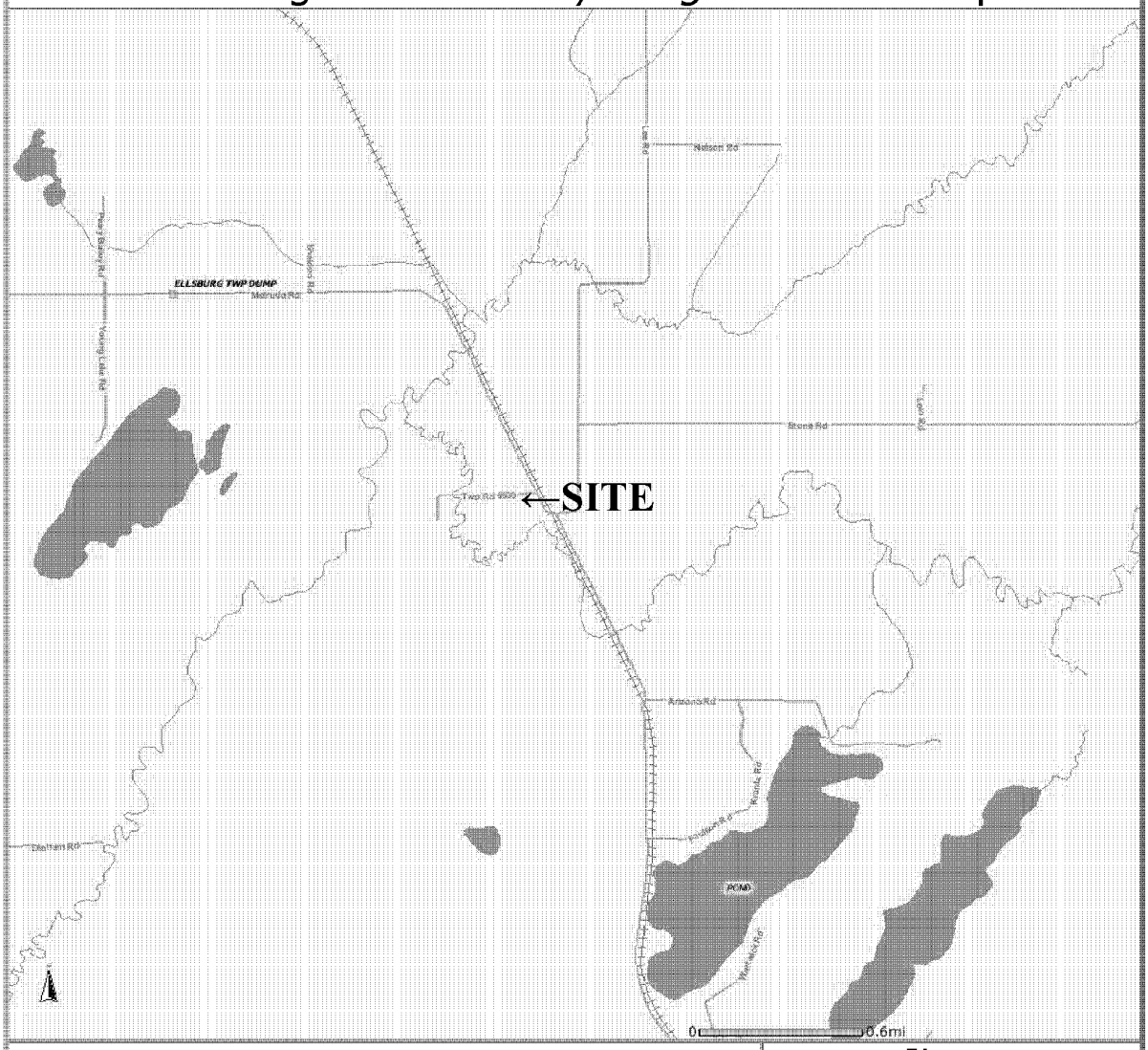
Site Name:	Ellsburg
Fire Department:	Ellsburg Volunteer Fire Department 1102 Mink Road Cotton, MN 55724
Site Contact:	Brady Miller, Assistant Fire Chief 218-482-3777

Training Location:	Melrude Fire Hall, 1763 Melrude Road, Melrude
Type of foam used in training:	AFFF: U.S. Foam
Foam training frequency:	Annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Ground
Annual foam use:	AFFF: not specified
Nearest surface water:	Unnamed creek less than 1/4 mile south
Nearest wetland:	Less than 1/4 south and southeast
Nearest water well:	1/2 to 1 mile northeast
Nearest Wellhead Protection Area:	More than 1 mile
SITE RANKING:	**9**

ELLSBURG (MELRUDE) CWI Well Map



Ellsburg *What's In My Neighborhood* Map



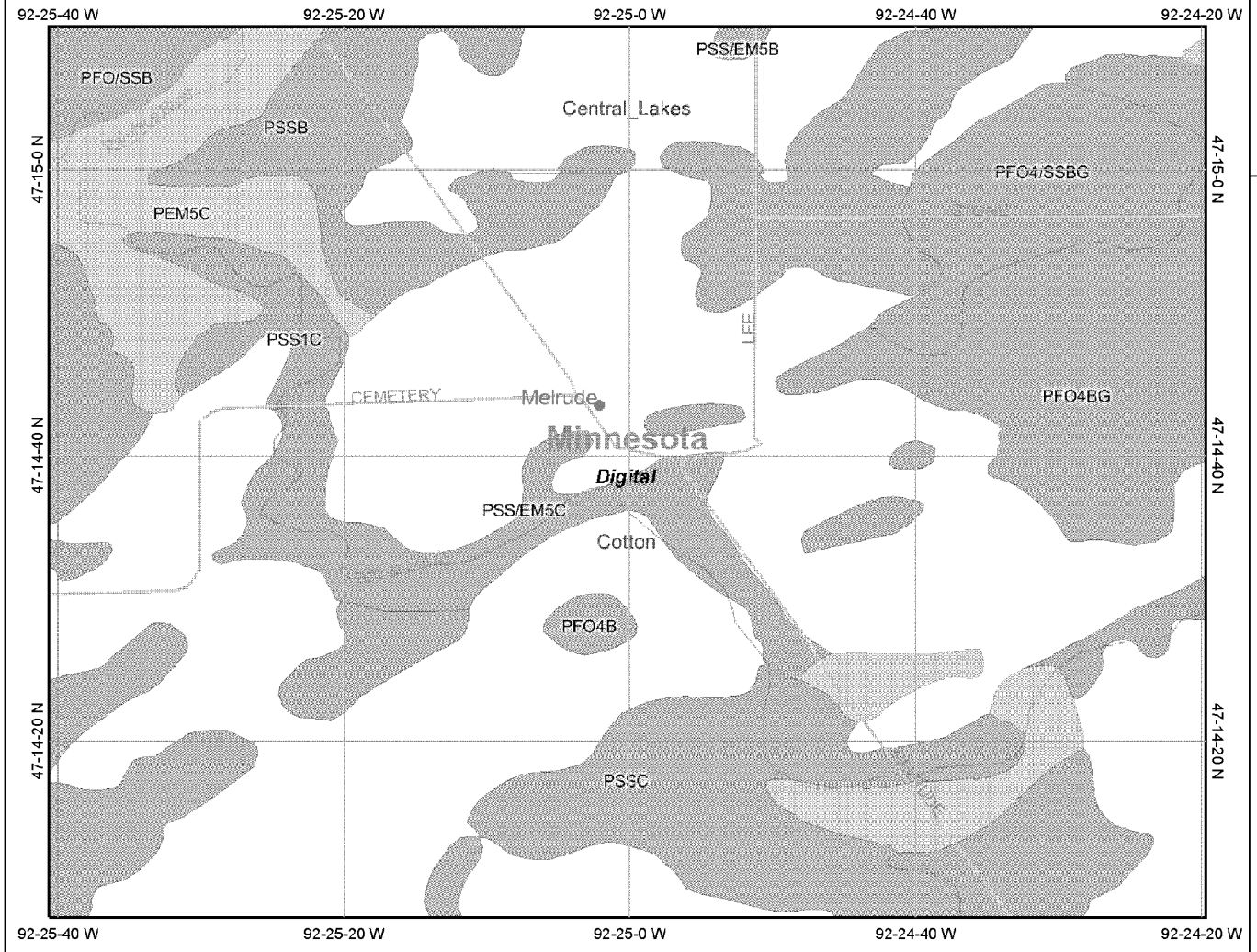
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Minnesota Pollution Control Agency

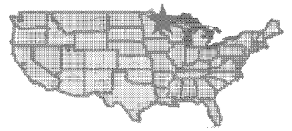
Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NPL/NAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

Ellsburg (Melrude) Wetland Map



Map center: 47° 14' 39" N, 92° 25' 0" W



Legend

Ohio_wet_scan
- 0
- 1
- Out of range

Interstate

Major Roads
- Other Road
- Interstate
- State highway
- US highway

Roads

Cities

USGS Quad Index 24K

Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan

NHD Streams

Counties 100K

States 100K
- South America
- North America

Scale: 1:13,471

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2222.1207

STATE_02822164

Minnesota Unique Well No.
729063

County St. Louis
Quad Central Lakes
Quad ID 292C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date
Update Date 11/30/2007
Received Date 11/14/2005

Well Name ANDERSON, ELMER & JULIA

Township	Range	Dir	Section	Subsections	Elevation
55	16	W	17	BBBBAB	1360 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
85 ft.	85 ft.	10/17/2005

Drilling Method Multiple methods used

Well Address
1898 LEE RD
MELRUDE MN 55766

Geological Material	Color	Hardness	From	To
CLAY	RED	MEDIUM	0	10
SAND	GRAY	SOFT	10	17
GRAVEL & BOULDERS	GRAY	HARD	17	40
FINE SAND & ROCKS	BLACK	HARD	40	77
SLATE	BLACK	M.SOFT	77	85

Drilling Fluid Water

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** ft.

Casing Diameter	Weight	Hole Diameter
6 in. to 77 ft.	19.45 lbs./ft.	6 in. to 77 ft.
		6 in. to 85 ft.

Open Hole from 72 ft. to 85 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
23 ft. from Land surface Date Measured 10/12/2005

PUMPING LEVEL (below land surface)
34 ft. after 24 hrs. pumping 15 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Located Minnesota Department of Health **Method** GPS SA Off (averaged)
Unique Number Verification N/A **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 544811 **Y:** 5233809

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Bentonite from to 77 ft. 4 bags

Nearest Known Source of Contamination
50 feet W direction Sewer type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
Petersen Well Co. 69183 PETERSEN, D
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat
Aquifer
Depth to Bedrock 77 ft.

County Well Index Online Report

729063

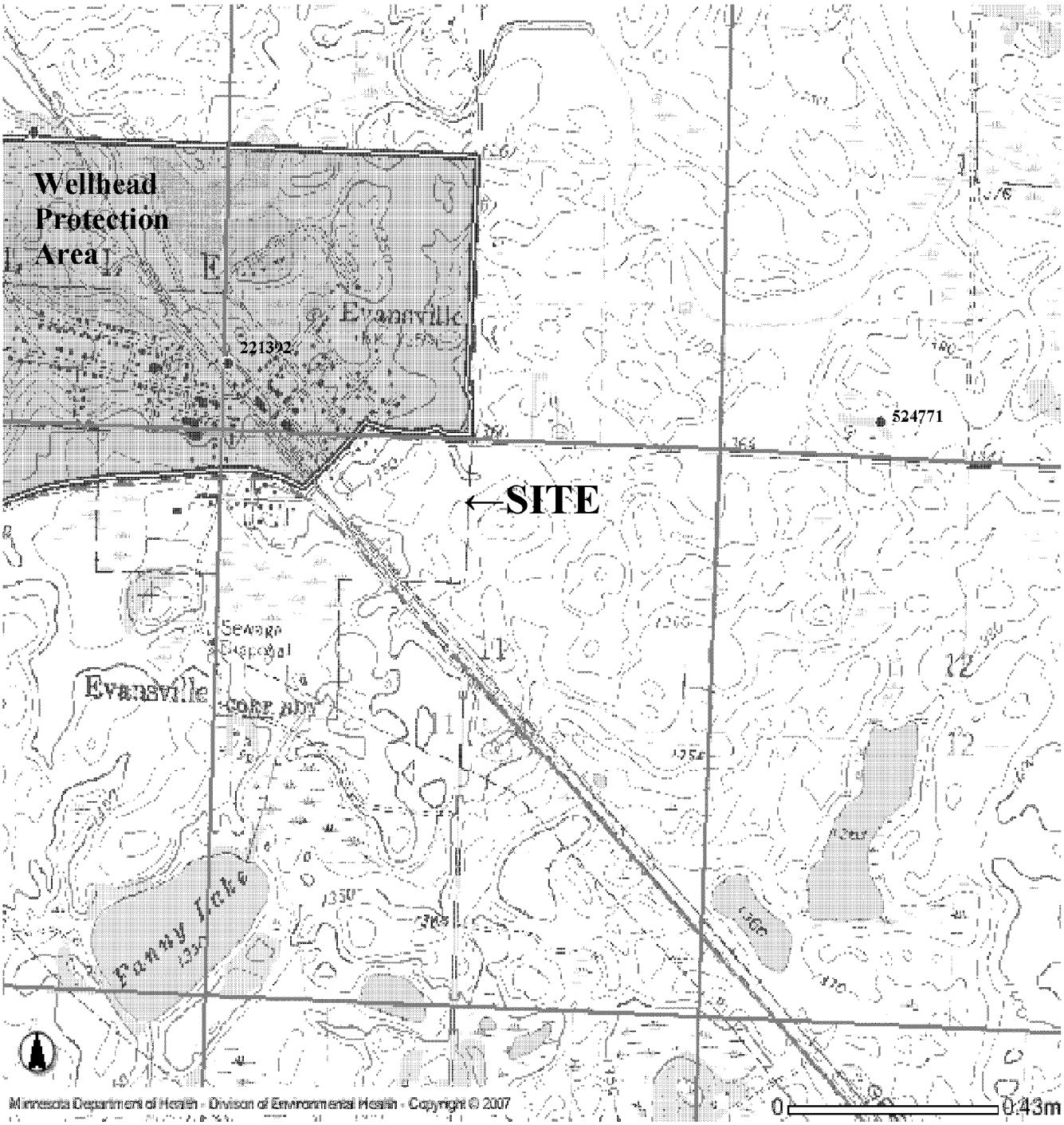
Printed 6/27/2008
HE-01205-07

SITE SUMMARY

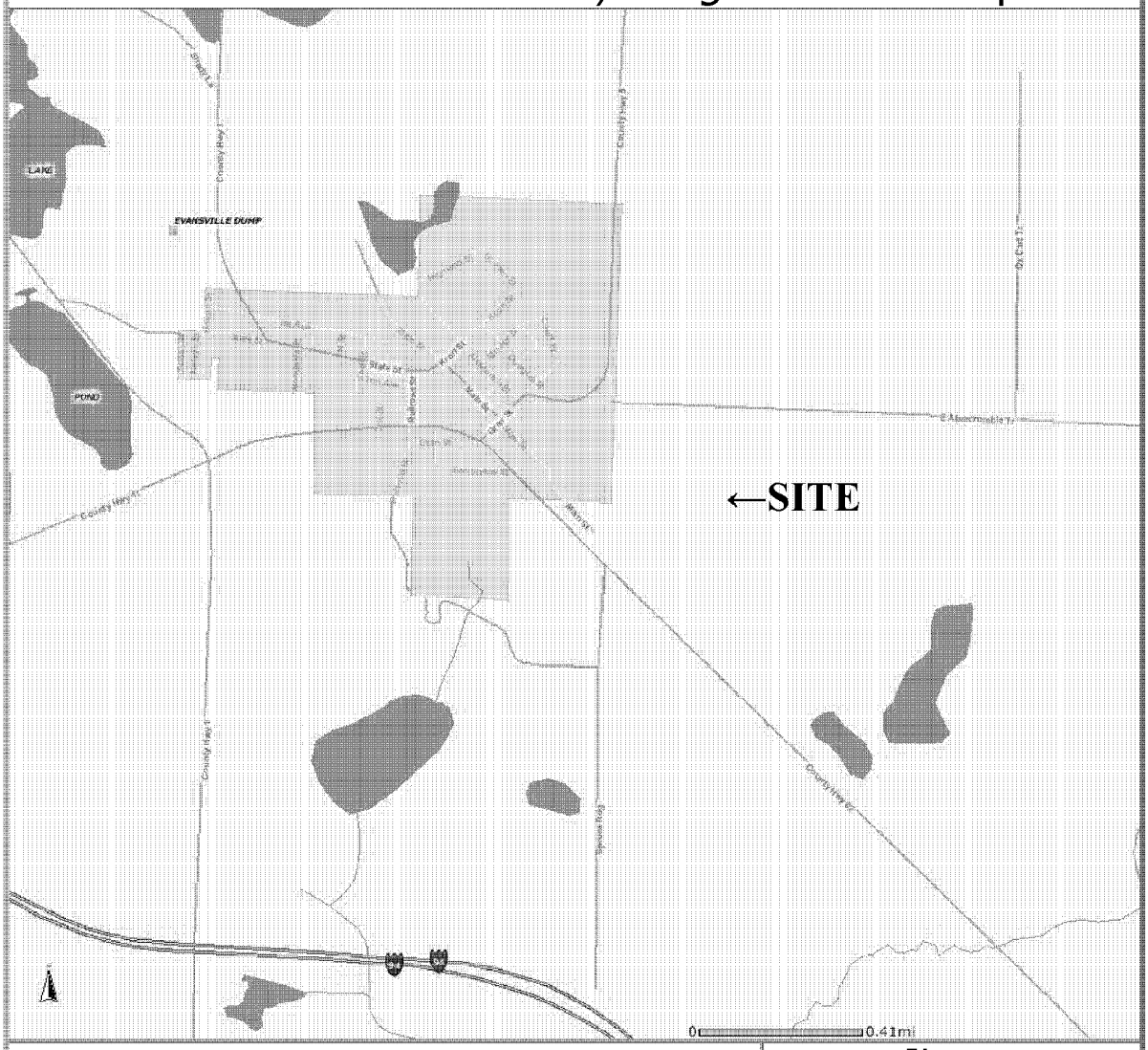
Site Name:	Evansville
Fire Department:	Evansville Fire Department PO Box 367 Evansville, MN 56326
Site Contact:	Tim Anderson, 2nd Assistant Fire Chief 320-834-4995

Training Location:	Behind fire hall, 106 State Street, East Side Addition in a cul-de-sac (new addition, east of town, east end of Main Street)
Type of foam used in training:	AR-AFFF: National Foam Universal Gold 1 to 3%
Foam training frequency:	Annually
Foam use per training event:	5 gallons
Spent foam destination:	Ground, storm sewer
Annual foam use:	AR-AFFF: not specified
Nearest surface water:	Intermittent stream 1/4 to 1/2 mile to the south-southeast
Nearest wetland:	Less than 1/4 mile north
Nearest water well:	Approximately 1/2 mile northwest
Nearest Wellhead Protection Area:	Less than 1/4 mile north
SITE RANKING:	**11**

EVANSVILLE CWI Well Map



Evansville *What's In My Neighborhood* Map



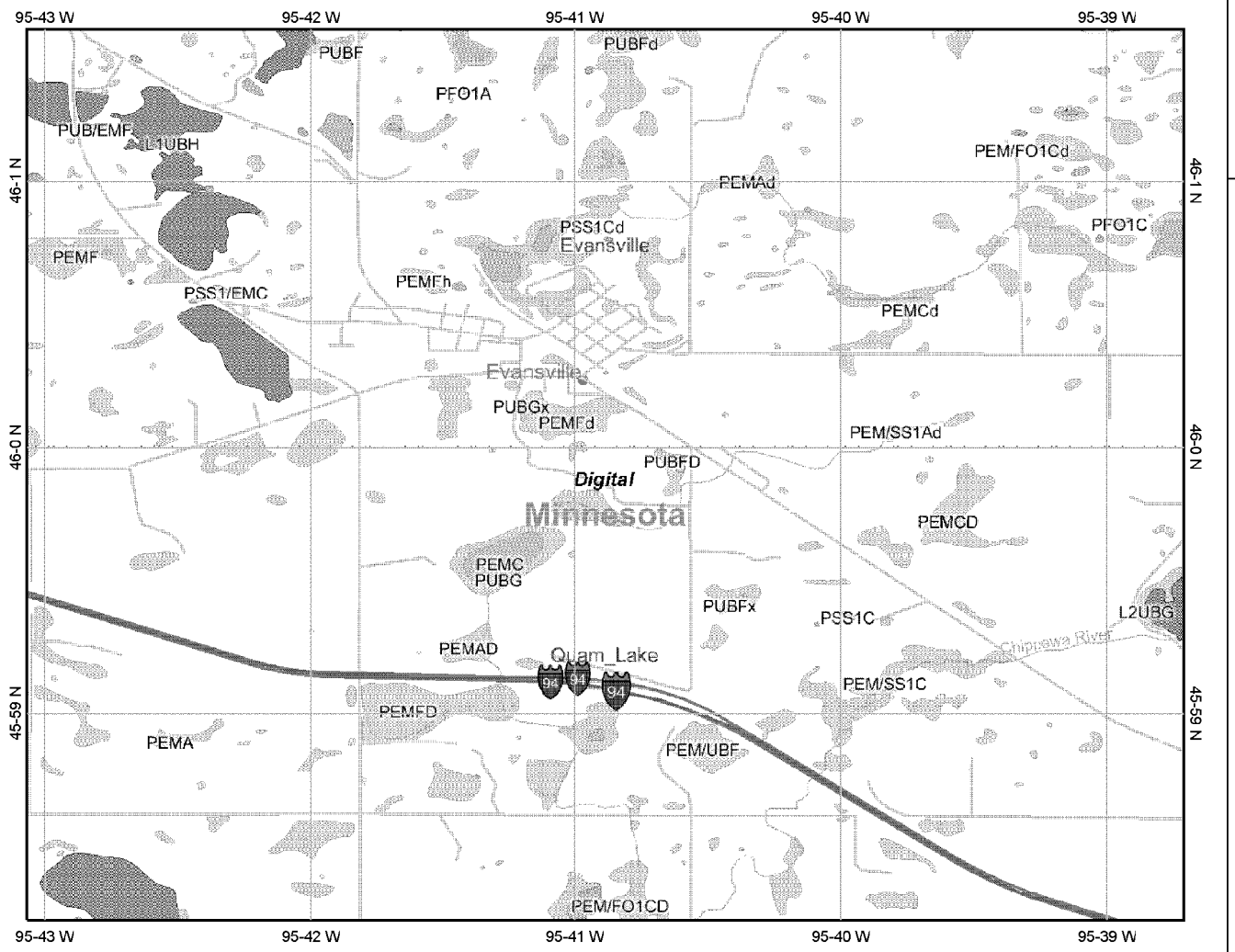
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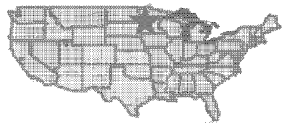
Minnesota Pollution Control Agency

Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- MFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

Evansville Wetland Map





Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:43,495

Map center: 45° 59' 54" N, 95° 40' 53" W

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2222.1212

STATE_02822169

Minnesota Unique Well No.
221392

County Douglas
Quad Evansville
Quad ID 199C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/07/1988
Update Date 05/06/2005
Received Date

Well Name GREAT NORTHERN RR

Township	Range	Dir	Section	Subsections	Elevation	Elevation Method
129	40	W	2	CCBCCC	1351 ft.	7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
202 ft.	200 ft.	07/28/1926

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/ Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
12 in. to 193 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type**

Diameter	Slot/Gauze	Length	Set Between
12	24	0	193 ft. and 200 ft.

Well Address

EVANSVILLE MN

Geological Material	Color	Hardness	From	To
SURFACE SOIL			0	10
HARDPAN & CLAY MIXED			10	175
STREAK OF GRAVEL			175	176
QUICKSAND			176	178
HARDPAN			178	183
FINE SAND & WATER BEARING GRAVEL			183	192
COARSE WATER BEARING GRAVEL			192	200
CLAY			200	202

Static Water Level
70 ft. from Land surface Date Measured 07/28/1926

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
WELL SEALED 09-29-1993 BY 71015
ORIGINAL USE IN - INDUSTRIAL

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey **Method** Digitization (Screen) - Map (1:24,000)

Unique Number Verification N/A **Date** 03/06/2003

System *UTM - Nad83, Zone15, Meters* **X:** 292017 **Y:** 5098403

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Owner 99999
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Clay
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report

221392

Printed 6/27/2008
HE-01205-07

Minnesota Unique Well No.
524771

County Douglas
Quad Evansville
Quad ID 199C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 09/15/1993
Update Date 02/04/1998
Received Date

Well Name LARSON, RONALD

Township	Range	Dir	Section	Subsections	Elevation
129	40	W	1	CDCDBB	1382 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
199 ft.	199 ft.	199306

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 ft.

Casing Diameter	Weight	Hole Diameter
5 in. to 191 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
5	20	8	191 ft. and 199 ft.

Well Address
19067 ABERCROMBIE TR
EVANSVILLE MN

Geological Material	Color	Hardness	From	To
CLAY	YELLOW		0	30
CLAY	BLUE		30	169
SAND			169	199

Static Water Level
105 ft. from Land surface Date Measured 199306

PUMPING LEVEL (below land surface)
0 ft. after hrs. pumping 75 g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Bentonite from 0 to 35 ft. 0

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Tag on well
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 294134 **Y:** 5098236

Nearest Known Source of Contamination
120 feet W direction Septic tank/drain field type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 06/00/1993
Manufacturer's name F + W Model number ___ HP 0.75 Volts 230
Length of drop Pipe 160 ft. Capacity 10 g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification

License Business Name	Lic. Or Reg. No.	Name of Driller
Waskosky Well Co.	26130	WASKOSKY, T.

First Bedrock
Last Strat Sand
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report

524771

Printed 6/27/2008
IIE-01205-07

STATE_02822171

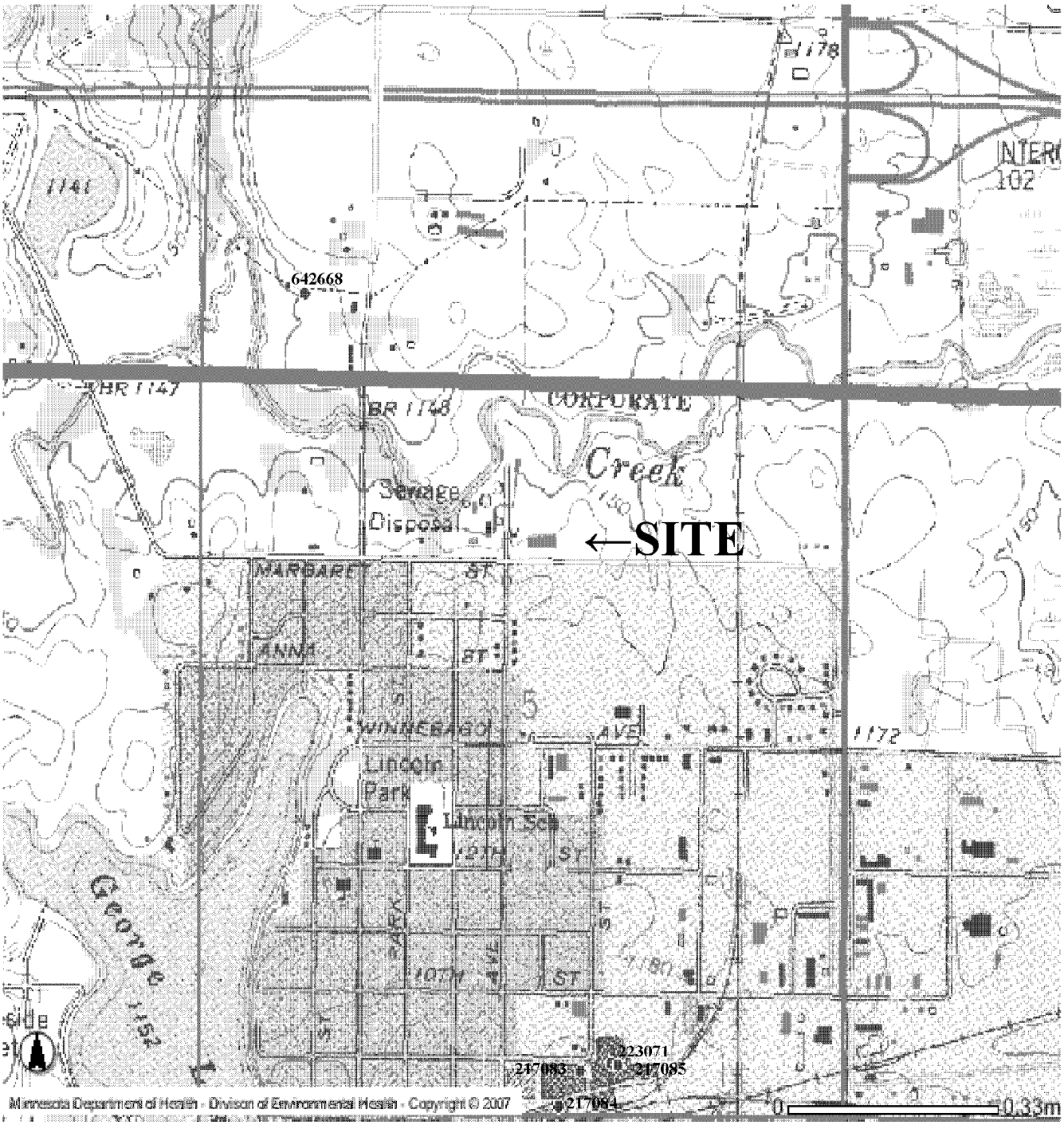
2222.1214

SITE SUMMARY

Site Name:	Fairmont
Fire Department:	Fairmont Fire Department PO Box 386 Fairmont, MN 56031
Site Contact:	Not provided, back side of questionnaire not completed

Training Location:	City shop parking lot, 417 E. Margaret Street, Fairmont
Type of foam used in training:	Foam type not specified
Foam training frequency:	Quarterly
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Ground
Annual foam use:	Not specified
Nearest surface water:	Buffalo Creek approximately 1/8 mile to the north
Nearest wetland:	Approximately 1/8 mile north
Nearest water well:	1/3 to 1/2 mile south
Nearest Wellhead Protection Area:	More than 1 mile
SITE RANKING:	**21**

FAIRMONT CWI Well Map



STATE_02822173

2222.1216

Fairmont *What's In My Neighborhood* Map



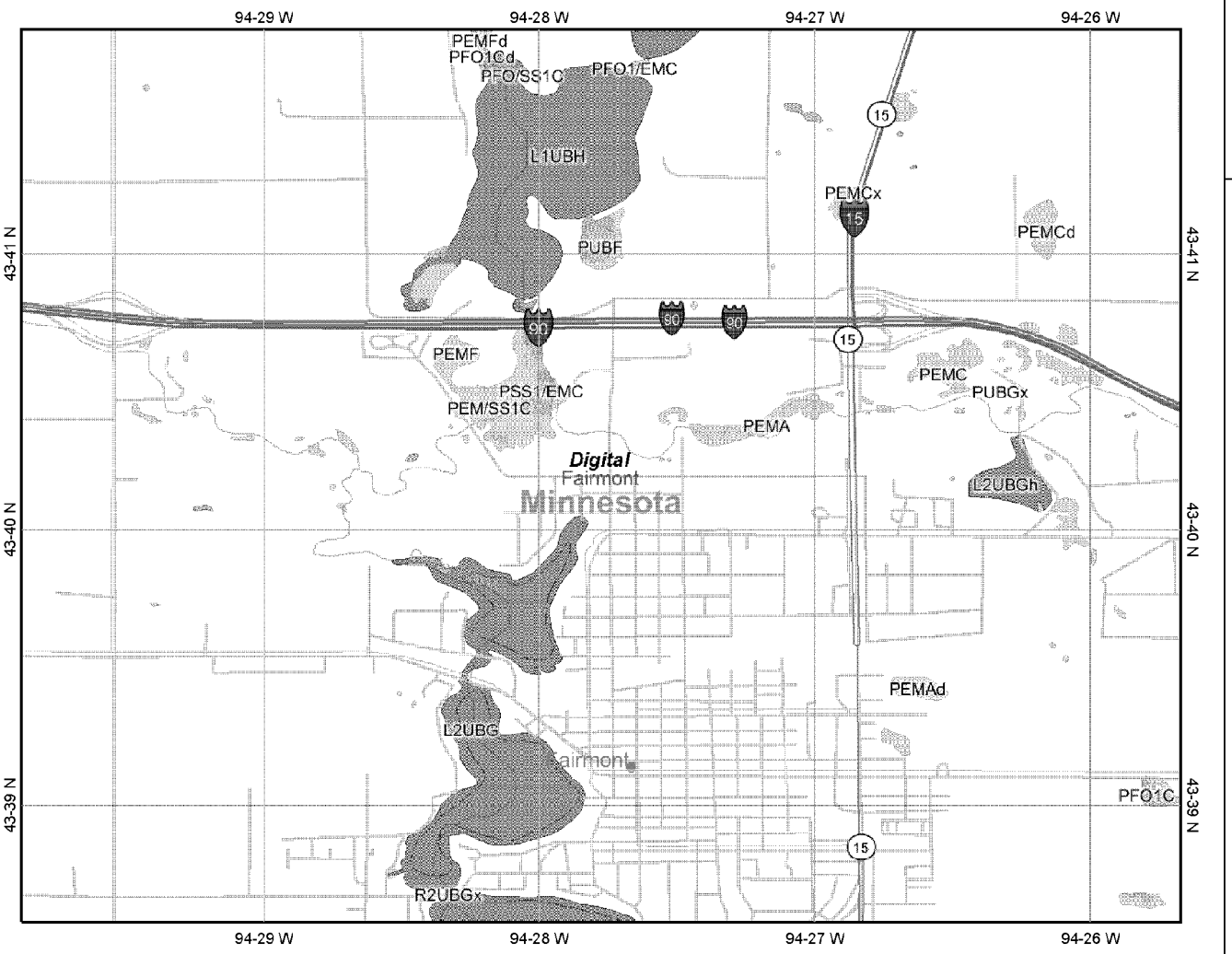
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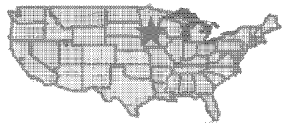
Minnesota Pollution Control Agency

Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NPL/AP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

Fairmont Wetland Map





Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:42,049

Map center: 43° 40' 12" N, 94° 27' 47" W

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2222.1218

STATE_02822175

Minnesota Unique Well No.
217083

County Martin
Quad Fairmont
Quad ID 14B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/13/1988
Update Date 07/30/2002
Received Date

Well Name STOKELY VAN CAMP INC.
Township Range Dir Section Subsections Elevation 1192 **ft.**
102 30 W 5 DCCDAA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
285 **ft.**	285 **ft.**	00/00/1958

Drilling Method --

Geological Material	Color	Hardness	From	To
FILL			0	5
CLAY			5	88
HARDPAN BOULDERS			88	102
SAND			102	103
SOFT CLAY		SOFT	103	107
CLAY, GRAVEL			107	118
SANDY CLAY			118	170
DIRTY SAND			170	173
SANDY CLAY			173	205
DIRTY SAND			205	209
SANDY CLAY			209	216
SAND W/CLAY LAYERS			216	250
CLEAN SAND			250	263
SAND, SOME CLAY			263	270
CLEAN SAND			270	282
FINE SILTY SAND			282	285

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Industrial

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
12 in. to 251 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between
12		30	0 ft. and ft.

Static Water Level
70 ft. from Land surface Date Measured 00/00/1958

PUMPING LEVEL (below land surface)
116 ft. after hrs. pumping 1250 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 382635 **Y:** 4835167

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0 Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

First Bedrock
Last Strat Sand & silt
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

Well Contractor Certification
Tri-state Well Co. 27118
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report | **217083** | Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
217084

County Martin
Quad Fairmont
Quad ID 14B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/13/1988
Update Date 05/06/2005
Received Date

Well Name STOKELY VAN CAMP INC.
Township Range Dir Section Subsections Elevation 1185 **ft.**
102 30 W 5 DCCCDD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
197 **ft.**	197 **ft.**	05/00/1957

Drilling Method --

Geological Material	Color	Hardness	From	To
BLACK SOIL	BLACK		0	5
YELLOW CLAY	YELLOW		5	21
BLUE CLAY	BLUE		21	110
YELLOW GRAVEL	YELLOW		110	115
YELLOW SANDY CLAY	YELLOW		115	147
YELLOW SAND	YELLOW		147	197

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
12 in. to 152 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between
0	18	45	0 ft. and ft.

Static Water Level
70 ft. from Land surface Date Measured 00/00/1966

PUMPING LEVEL (below land surface)
107 ft. after hrs. pumping 533 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
WELL SEALED 09-12-1989 BY 27058

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 382581 **Y:** 4835090

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed
Manufacturer's name Model number ___ HP 0 Volts
Length of drop Pipe 130 ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification

First Bedrock
Last Strat Sand-yellow
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock **ft.**

License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report | **217084** | Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
217085

County Martin
Quad Fairmont
Quad ID 14B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/13/1988
Update Date 07/30/2002
Received Date

Well Name STOKELY VAN CAMP
Township Range Dir Section Subsections Elevation 1190 **ft.**
102 30 W 5 DCDBCA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
181 ft.	181 ft.	05/00/1940

Drilling Method --

Geological Material	Color	Hardness	From	To
BLACK DIRT	BLACK		0	7
YELLOW CLAY	YELLOW		7	17
SAND			17	21
MUSHY CLAY			21	23
HARD BLUE CLAY	BLACK	HARD	23	105
DIRTY SAND			105	117
BLUE CLAY	BLUE		117	119
SAND & GRAVEL			119	126
YELLOW CLAY	YELLOW		126	154
WHITE SAND	WHITE		154	156
YELLOW SAND	YELLOW		156	166
DARK YELLOW SAND	YELLOW		166	180
CLAY			180	181

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Industrial

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
12 in. to 135 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type**

Diameter	Slot/Gauze	Length	Set Between
12		46	135 ft. and 181 ft.

Static Water Level
70 ft. from Land surface Date Measured 00/00/1959

PUMPING LEVEL (below land surface)
114 ft. after hrs. pumping 435 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification N/A **Date** N/A

System *UTM - Nad83, Zone15, Meters* **X:** 382712 **Y:** 4835183

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification

First Bedrock
Last Strat Sand
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report | **217085** | Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
223071

County Martin
Quad Fairmont
Quad ID 14B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/13/1988
Update Date 07/30/2002
Received Date

Well Name STOKELY VAN CAMP NO. 1
Township Range Dir Section Subsections Elevation 1190 **ft.**
102 30 W 5 DCDBCA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
197 **ft.**	197 **ft.**	05/00/1937

Drilling Method --

Geological Material	Color	Hardness	From	To
BLACK SOIL	BLACK		0	5
YELLOW CLAY	YELLOW		5	21
BLUE CLAY	BLUE		21	110
YELLOW GRAVEL	YELLOW		110	115
YELLOW SANDY CLAY	YELLOW		115	147
YELLOW SAND	YELLOW		147	197

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Industrial

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
12 in. to 195 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between
12	18	45	150 ft. and 195 ft.

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
107 ft. after hrs. pumping 800 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 382728 **Y:** 4835180

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP 30 Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Turbine Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
BROWN, K. M.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-yellow
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock **ft.**

County Well Index Online Report **223071** Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
642668

County Martin
Quad Fairmont
Quad ID 14B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 05/21/2002
Update Date 04/03/2008
Received Date

Well Name S & J EXCAVATING
Township Range Dir Section Subsections Elevation 1158 **ft.**
103 30 W 32 CCB **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
121 ft.	121 ft.	07/18/2001

Drilling Method Non-specified Rotary

Well Address
RR
FAIRMONT MN 56031

Geological Material	Color	Hardness	From	To
SAND	BROWN	SOFT	0	8
CLAY	BLUE	MEDIUM	8	80
CLAY & SAND	BLUE	SOFT	80	100
FINE SAND	BROWN	SOFT	100	114
SAND	GRAY	MEDIUM	114	121

Drilling Fluid Water

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
5 in. to 116 ft.	lbs./ft.	9 in. to 121 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
5	15	5	116 ft. and 121 ft.

Static Water Level
46 ft. from Land surface Date Measured 07/18/2001

PUMPING LEVEL (below land surface)
50 ft. after 16 hrs. pumping 60 g.p.m.

Well Head Completion
Pitless adapter manufacturer MAAS Model 5X1.25 IN
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Located Minnesota Department of Health **Method** GPS SA On (averaged)
Unique Number Verification N/A **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 381952 **Y:** 4836858

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Bentonite from 0 to 106 ft. 15 bags

Nearest Known Source of Contamination
60 feet E direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 07/19/2001
Manufacturer's name WEBTROL Model number 102S58B
HP 0.5 Volts 230
Length of drop Pipe 60 ft. Capacity 10 g.p.m
Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
Jerry's Well Co. 90421 CHRISTENSEN,
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Unknown deposit type
Aquifer
Depth to Bedrock ft.

County Well Index Online Report **642668** Printed 6/27/2008
HE-01205-07

STATE_02822180

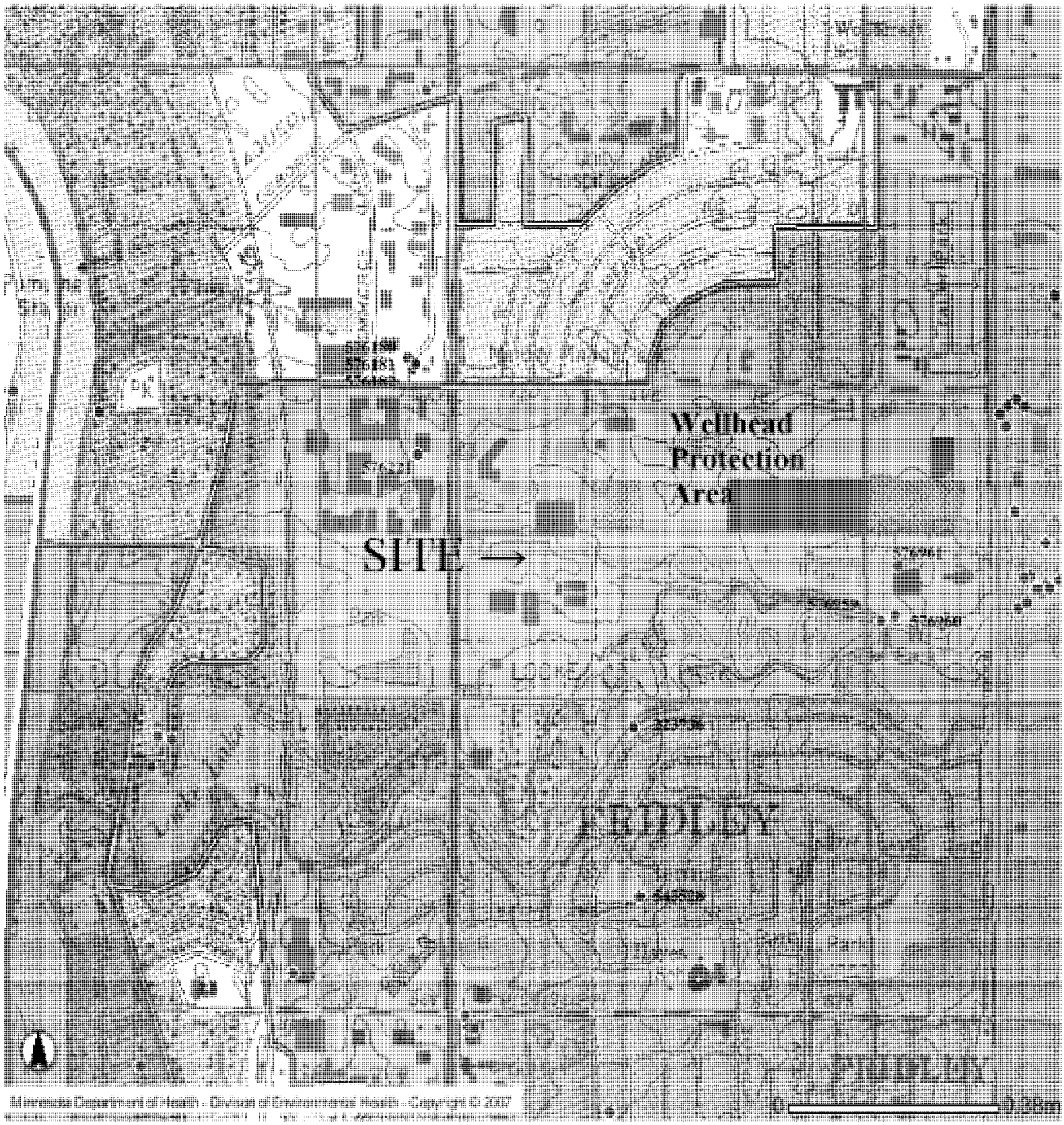
2222.1223

SITE SUMMARY

Site Name:	Fridley
Fire Department:	Fridley Fire Department 6431 University Avenue NE Fridley, MN 55432
Site Contact:	John Berg, Fire Chief 763-572-3610 bergj@ci.fridley.mn.us

Training Location:	North Metro Fire Training Center 300 71st Avenue, Fridley
Type of foam used in training:	AR-AFFF: 3M (historic)
Foam training frequency:	Not very often
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Retention pond
Annual foam use:	AR-AFFF: historic amount not specified Class A: amount not specified
Nearest surface water:	Rice Creek less than 1/4 mile to the south-southeast
Nearest wetland:	Less than 1/4 mile southeast
Karst Area:	Site appears to be in a transition or covered karst area along the Mississippi River
Nearest water well:	Less than 1/4 mile northwest
Nearest Wellhead Protection Area:	Training site located within Wellhead Protection Area
SITE RANKING:	**28**

FRIDLEY CWI Well Map



Fridley *What's In My Neighborhood* Map



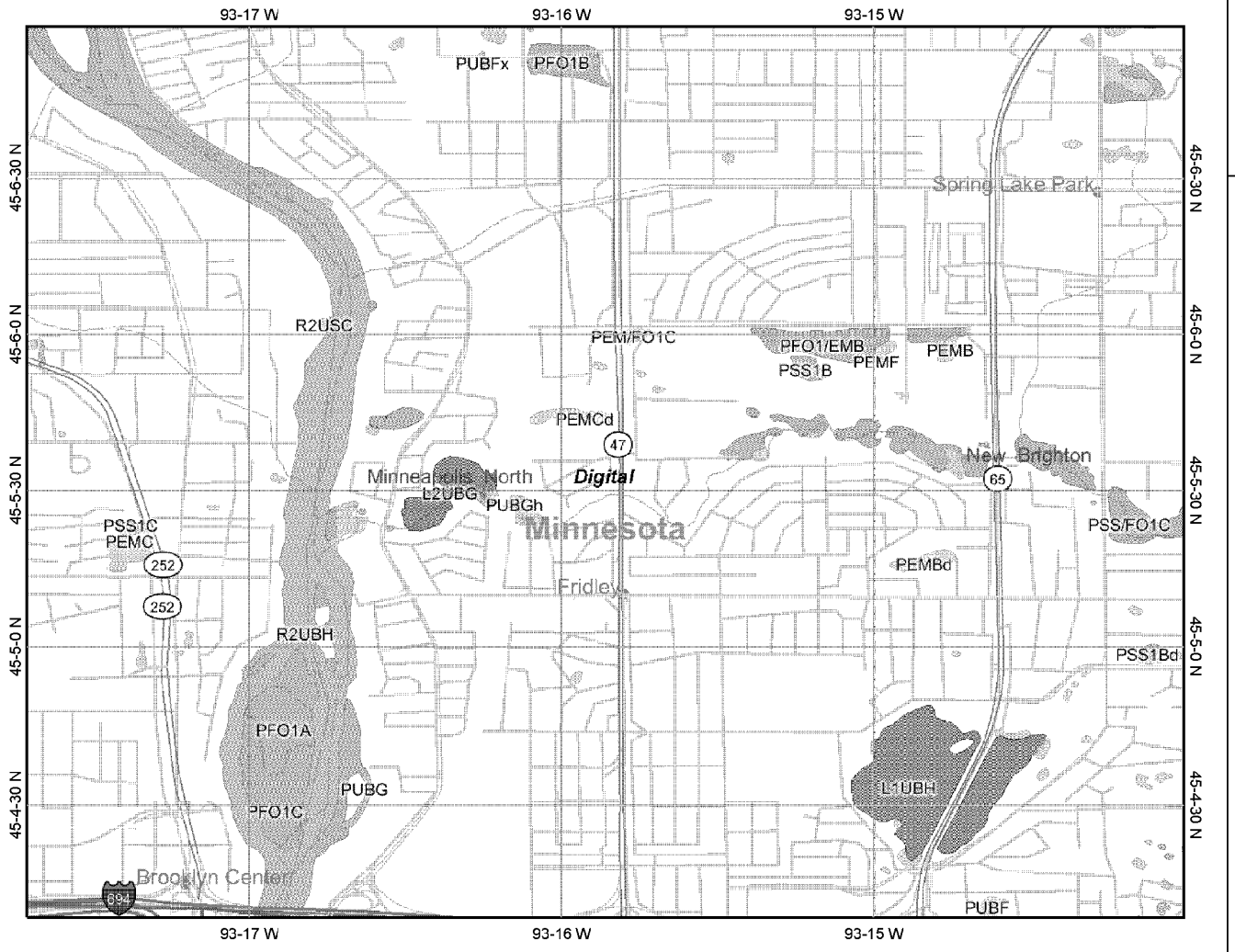
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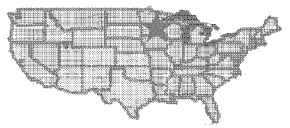
Minnesota Pollution Control Agency

Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- HFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

Fridley





Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:36,925

Map center: 45° 5' 34" N, 93° 15' 52" W

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

2222.1228

STATE_02822185

Minnesota Unique Well No.
223736

County Anoka
Quad Minneapolis North
Quad ID 120D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/15/1991
Update Date 03/27/1996
Received Date

Well Name JENSEN, BILL
Township Range Dir Section Subsections Elevation 849 **ft.**
30 24 W 14 ABBACB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
119 **ft.**	119 **ft.**	08/11/1971

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/ Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
589 RICECREEK NE
FRIDLEY MN

Geological Material	Color	Hardness	From	To
SAND GRAVEL	YELLOW		0	8
GRAVEL	YELLOW		8	14
CLAY	BROWN		14	17
CLAY	BLUE		17	24
SAND	GRAY		24	44
ROCKS HARDPAN		V.HARD	44	52
CLAY HARDPAN	BROWN		52	105
CLAY & GRAVEL-GRAVEL SCREENED	BROWN		105	119

Static Water Level
20 ft. from Land surface Date Measured 08/11/1971

PUMPING LEVEL (below land surface)
0 ft. after hrs. pumping 35 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Address verification
Date N/A
System *UTM - Nad83, Zone15, Meters* **X:** 479796 **Y:** 4993282

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed
Manufacturer's name STA-RITE Model number ___ HP 1.5 Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Mork Well Co. 02133
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Pebbly sand/silt/clay-brown
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock **ft.**

County Well Index Online Report | **223736** | Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
543528

County Anoka
Quad Minneapolis North
Quad ID 120D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 09/15/1994
Update Date 09/14/1995
Received Date

Well Name MW-2

Township	Range	Dir	Section	Subsections	Elevation	
30	24	W	14	ACBACD	**Elevation Method**	850 **ft.** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
198 **ft.**	198 **ft.**	06/02/1994

Drilling Method Vibracore/rotasonic

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Monitor well

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 122 ft.	lbs./ft.	6 in. to 122 ft.
		4 in. to 198 ft.

Open Hole from 122 ft. to 198 ft.

Screen NO **Make** **Type**

Diameter **Slot/Gauze** **Length** **Set Between**

Well Address

FRIDLEY MN 55432

Geological Material	Color	Hardness	From	To
SAND			0	16
CLAY			16	43
SAND			43	50
SOFT CLAY			50	63
SAND			63	112
SANDROCK			112	118
LIMEROCK			118	120
LIMEROCK			120	198

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
M.G.S. NO. 3526. GAMMA LOGGED 9-8-1994.

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement from 0 to 122 ft. 27 bags

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Information from owner
Date 07/19/2004
System *UTM - Nad83, Zone15, Meters*
X: 479814 **Y:** 4992849

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

2222.1230

STATE_02822187

	Pump ☐ Not Installed Date Installed Manufacturer's name Model number ___ HP 0 Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material
	Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No
	Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No
Cuttings Yes **Borehole Geophysics** Yes **First Bedrock** Prairie Du Chien Group **Aquifer** Prairie Du Chien Group **Last Strat** Prairie Du Chien Group **Depth to Bedrock** 119 **ft.**	**Well Contractor Certification** North Star Drilling 49588 BACKOWSKI, M. License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	**543528** Printed 6/27/2008 HE-01205-07

2222.1231

STATE_02822188

Minnesota Unique Well No.
576180

County Anoka
Quad Minneapolis North
Quad ID 120D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/22/2003
Update Date 11/17/2006
Received Date

Well Name MW-1

Township	Range	Dir	Section	Subsections	Elevation
30	24	W	11	BCDCAC	858 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
17 ft.	15 ft.	04/03/1996

Drilling Method Auger (non-specified)

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** ft.

Casing Diameter	Weight	Hole Diameter
2 in. to 5 ft.	lbs./ft.	8 in. to 17 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** plastic

Diameter	Slot/Gauze	Length	Set Between
2	10	10	5 ft. and 15 ft.

Well Address
7300 UNIVERSITY AV
FRIDLEY MN

Geological Material	Color	Hardness	From	To
SAND	WHT/BRN		0	11
CLAY	GRAY		11	17

Static Water Level
6 ft. from Land surface Date Measured 04/03/1996

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer 6" PROTOP Model
☑ Casing Protection Y ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
WELL SEALED 08-20-1997 BY 02653
ORIGINAL USE : MONITOR WELL

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: CONCRETE from to 3 ft. 3 bags

Located Minnesota Department of Health **Method** GPS SA On (averaged)
Unique Number Verification N/A **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 479138 **Y:** 4994227

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
W.J. Canty, Inc. 71677 CANTY, W.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Clay-gray
Aquifer Quat. Water Table Aquifer
Depth to Bedrock ft.

County Well Index Online Report

576180

Printed 6/27/2008
HE-01205-07

Minnesota Unique Well No.
576181

County Anoka
Quad Minneapolis North
Quad ID 120D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/22/2003
Update Date 11/17/2006
Received Date

Well Name MW-2

Township	Range	Dir	Section	Subsections	Elevation
30	24	W	11	BCDCDA	857 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
21 ft.	18 ft.	04/03/1996

Drilling Method Auger (non-specified)

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** ft.

Casing Diameter	Weight	Hole Diameter
2 in. to 7.5 ft.	lbs./ft.	8 in. to 20.5 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** plastic

Diameter	Slot/Gauze	Length	Set Between
2	10	10	7.5 ft. and 17.5 ft.

Well Address
7300 UNIVERSITY AV
MN

Geological Material	Color	Hardness	From	To
SAND	WHT/GRY		0	14
CLAY	GRAY		14	21

Static Water Level
8.6 ft. from Land surface Date Measured 04/03/1996

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer 6" PRO TOP Model
☑ Casing Protection Y ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
WELL SEALED 08-20-1997 BY 02653
ORIGINAL USE : MONITOR WELL

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: CONCRETE from to 4 ft. 3 bags

Located Minnesota Department of Health **Method** GPS SA On (averaged)
Unique Number Verification N/A **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 479152 **Y:** 4994199

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☑ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
W.J. Canty, Inc. 71677 CANTY, W.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Clay-gray
Aquifer Quat. Water Table Aquifer
Depth to Bedrock ft.

County Well Index Online Report

576181

Printed 6/27/2008
HE-01205-07

Minnesota Unique Well No.
576182

County Anoka
Quad Minneapolis North
Quad ID 120D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/22/2003
Update Date 11/17/2006
Received Date

Well Name MW-3

Township	Range	Dir	Section	Subsections	Elevation	
30	24	W	11	BCDCAD	**Elevation Method**	857 **ft.** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
19 **ft.**	17 **ft.**	04/03/1996

Drilling Method Auger (non-specified)

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
2 in. to 7 ft.	lbs./ft.	8 in. to 17 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** plastic

Diameter	Slot/Gauze	Length	Set Between
2	10	10	7 ft. and 17 ft.

Well Address
7300 UNIVERSITY AV
MN

Geological Material	Color	Hardness	From	To
SAND	BROWN		0	13
CLAY	GRAY		13	19

Static Water Level
8 ft. from Land surface Date Measured 04/03/1996

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer 6" PRO TOP Model
☑ Casing Protection Y ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
WELL SEALED 08-20-1997 BY 02653
ORIGINAL USE : MONITOR WELL

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: CONCRETE from to 3 ft. 3 bags

Located Minnesota Department of Health **Method** GPS SA On (averaged)
Unique Number Verification N/A **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 479160 **Y:** 4994212

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☑ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
W.J. Canty, Inc. 71677 CANTY, W.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Clay-gray
Aquifer Quat. Water Table Aquifer
Depth to Bedrock ft.

County Well Index Online Report

576182

Printed 6/27/2008
HE-01205-07

Minnesota Unique Well No.
576221

County Anoka
Quad Minneapolis North
Quad ID 120D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/22/2003
Update Date 05/06/2005
Received Date

Well Name

Township Range Dir Section Subsections Elevation 866 **ft.**

30	24	W	11	CBACDD	**Elevation Method**	Calc from DEM (USGS 7.5 min or equiv.)

Well Depth ft. | **Depth Completed ft.** | **Date Well Completed**

Drilling Method

Drilling Fluid

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type **Joint** **Drive Shoe?** ☐ Yes ☐ No **Above/ Below ft.**

Casing Diameter **Weight** **Hole Diameter**

Open Hole from ft. to ft.

Screen
Diameter **Slot/Gauze** **Length** **Set Between**

Geological Material **Color** **Hardness** **From** **To**

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
WELL SEALED 08-20-1997 BY 02653
ORIGINAL USE

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Department of Health **Method** GPS SA On (averaged)

Unique Number Verification N/A **Date** N/A

System *UTM - Nad83, Zone15, Meters* **X:** 479164 **Y:** 4993980

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

STATE_02822192

First Bedrock **Last Strat**	**Aquifer** **Depth to Bedrock ft.**	**Well Contractor Certification** License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	**576221**	Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
576959

County Anoka
Quad New Brighton
Quad ID 119C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/22/2003
Update Date 11/17/2006
Received Date

Well Name MW-1
Township Range Dir Section Subsections Elevation 870 **ft.**
30 24 W 12 CCBCCD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
21 ft.	21 ft.	03/21/1996

Drilling Method Auger (non-specified)

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter	Weight	Hole Diameter
2 in. to 19 ft.	lbs./ft.	8 in. to 21 ft.

Open Hole from ft. to ft.

Screen YES **Make** PVC **Type** slotted pipe

Diameter	Slot/Gauze	Length	Set Between
2	10	10	9 ft. and 19 ft.

Well Address
6982 65 HY NE
MN

Geological Material	Color	Hardness	From	To
FINE SAND	BROWN	MEDIUM	0	19
SILTY SAND	GRAY	MEDIUM	19	21

Static Water Level
13 ft. from Land surface Date Measured 03/21/1996

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☑ Casing Protection Y ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
WELL SEALED 07-02-1996 BY 27058
ORIGINAL USE : MONITOR WELL

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Bentonite from to 5 ft. 2 bags

Located Minnesota Department of Health **Method** GPS SA On (averaged)
Unique Number Verification N/A **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 480520 **Y:** 4993554

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☑ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
Bergerson-Caswell 27058 BURANDT, P
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand & silt-gray
Aquifer Quat. Water Table Aquifer
Depth to Bedrock **ft.**

County Well Index Online Report | **576959** | Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
576961

County Anoka
Quad New Brighton
Quad ID 119C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/22/2003
Update Date 11/17/2006
Received Date

Well Name MW-3
Township Range Dir Section Subsections Elevation 888 **ft.**

30	24	W	12	CCBBDA	**Elevation Method**	7.5 minute topographic map (+/- 5 feet)

Well Depth	**Depth Completed**	**Date Well Completed**
18 **ft.**	18 **ft.**	03/21/1996

Drilling Method Auger (non-specified)

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	**Weight**	**Hole Diameter**
2 in. to 17 ft.	lbs./ft.	8 in. to 18 ft.

Open Hole from ft. to ft.

Screen YES **Make** **Type** mixed (multiple)

Diameter	**Slot/Gauze**	**Length**	**Set Between**
2	10	10	7 ft. and 17 ft.

Geological Material	**Color**	**Hardness**	**From**	**To**
FINE SAND	BROWN	MEDIUM	0	10
SILTY SAND	BROWN	MEDIUM	10	15
SILTY SAND	GRAY	MEDIUM	15	18

Static Water Level
12 ft. from Land surface Date Measured 03/21/1996

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☑ Casing Protection Y ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
WELL SEALED 07-02-1996 BY 27058
ORIGINAL USE: MONITOR WELL

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Bentonite from to 3 ft. 1.5 bags

Located Minnesota Department of Health **Method** GPS SA On (averaged)
Unique Number Verification N/A **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 480569 **Y:** 4993695

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☑ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

First Bedrock
Last Strat Sand & silt-gray
Aquifer Quat. Water Table Aquifer
Depth to Bedrock ft.

Well Contractor Certification
Bergerson-Caswell 27058 BURNADT, P
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report | **576961** | Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
576960

County Anoka
Quad New Brighton
Quad ID 119C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/22/2003
Update Date 11/17/2006
Received Date

Well Name MW-2

Township	Range	Dir	Section	Subsections	Elevation	Elevation Method
30	24	W	12	CCBCDD	884 ft.	7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
21 ft.	21 ft.	03/21/1996

Drilling Method Auger (non-specified)

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** ft.

Casing Diameter	Weight	Hole Diameter
2 in. to 19 ft.	lbs./ft.	8 in. to 21 ft.

Open Hole from ft. to ft.

Screen YES **Make** PVC **Type** slotted pipe

Diameter	Slot/Gauze	Length	Set Between
2	10	10	9 ft. and 19 ft.

Static Water Level
13.5 ft. from Land surface Date Measured 03/21/1996

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
6982 65 HY NE
MN

Geological Material	Color	Hardness	From	To
SAND	DK. BRN	MEDIUM	0	6
SAND	LT. BRN	MEDIUM	6	16
SILTY CLAY & SAND	GRAY	MEDIUM	16	21

REMARKS
WELL SEALED 07-02-1996 BY 27058
ORIGINAL USE MONITOR WELL

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Bentonite from to 5 ft. 2 bags

Located Minnesota Department of Health **Method** GPS SA On (averaged)
Unique Number Verification N/A **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 480561 **Y:** 4993569

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☑ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
Bergerson-Caswell 27058 BURANDT, P
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Pebble free clay/sand/silt-
Aquifer Quat. Water Table Aquifer
Depth to Bedrock ft.

County Well Index Online Report

576960

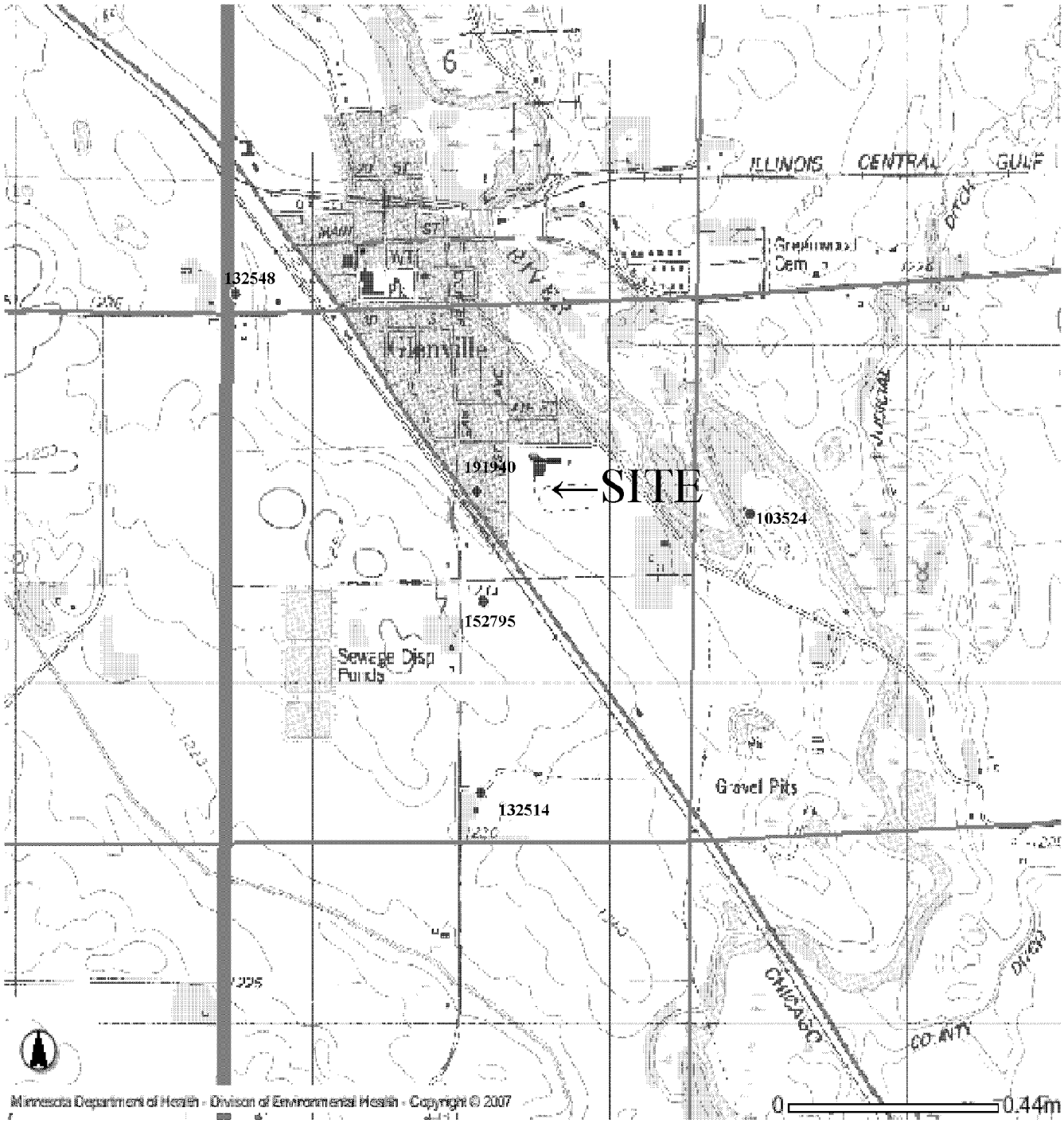
Printed 6/27/2008
HE-01205-07

SITE SUMMARY

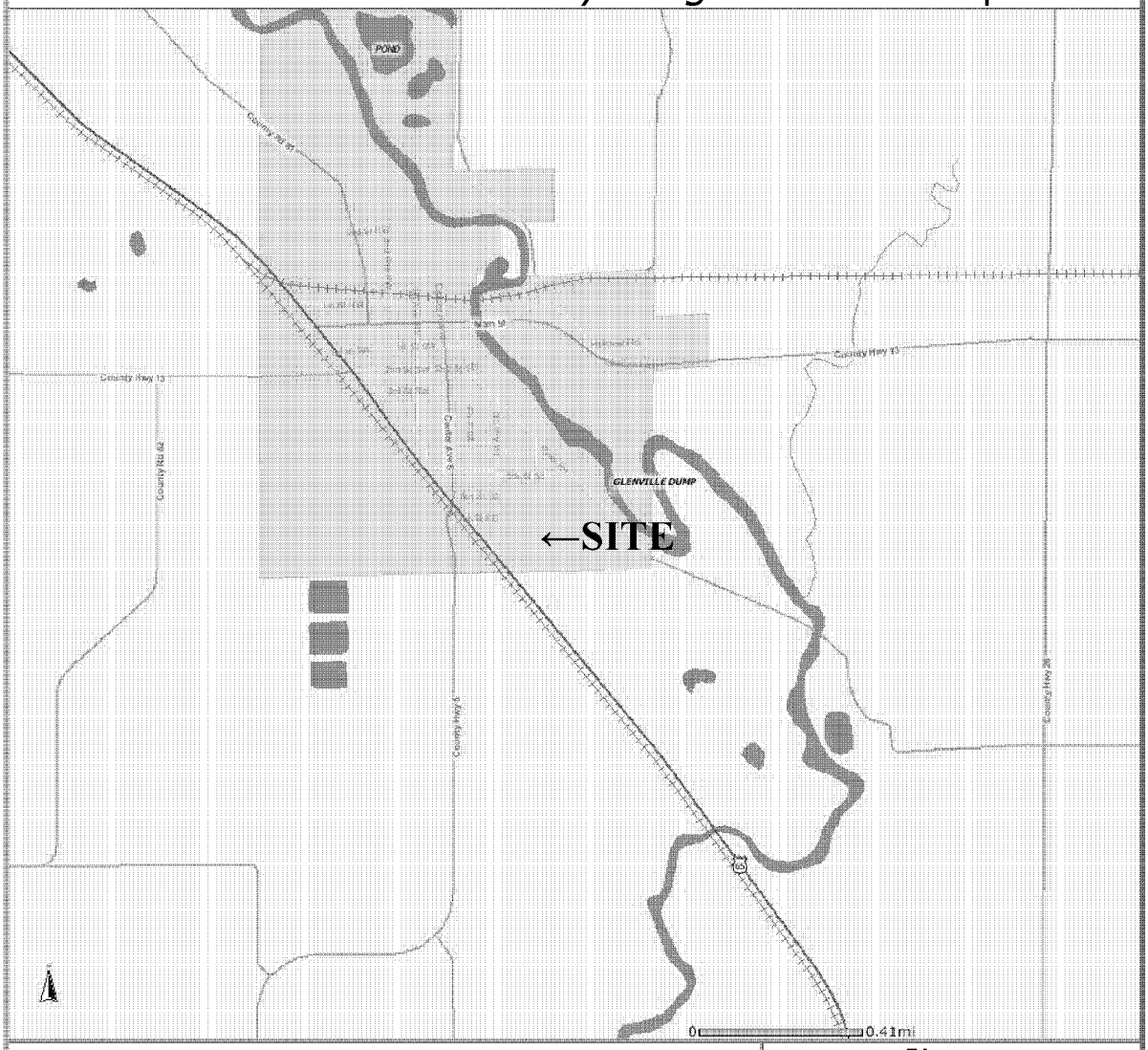
Site Name:	Glenville
Fire Department:	Glenville Fire Department Glenville, MN 56036
Site Contact:	Craig Rayman, Fire Chief 507-448-3916 raymanc@geschools.com

Training Location:	High school football field, Glenville
Type of foam used in training:	AR-AFFF: Ansul
Foam training frequency:	Annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Ground
Annual foam use:	AR-AFFF: less than 5 gallons
Nearest surface water:	Rock River less than 1/4 mile to the east
Nearest wetland:	1/4 to 1/2 mile east
Karst Area:	Training site is located in a transition or covered karst area
Nearest water well:	Less than 1/4 mile west
Nearest Wellhead Protection Area:	More than 1 mile
SITE RANKING:	**13**

GLENVILLE CWI Well Map



Glenville *What's In My Neighborhood* Map



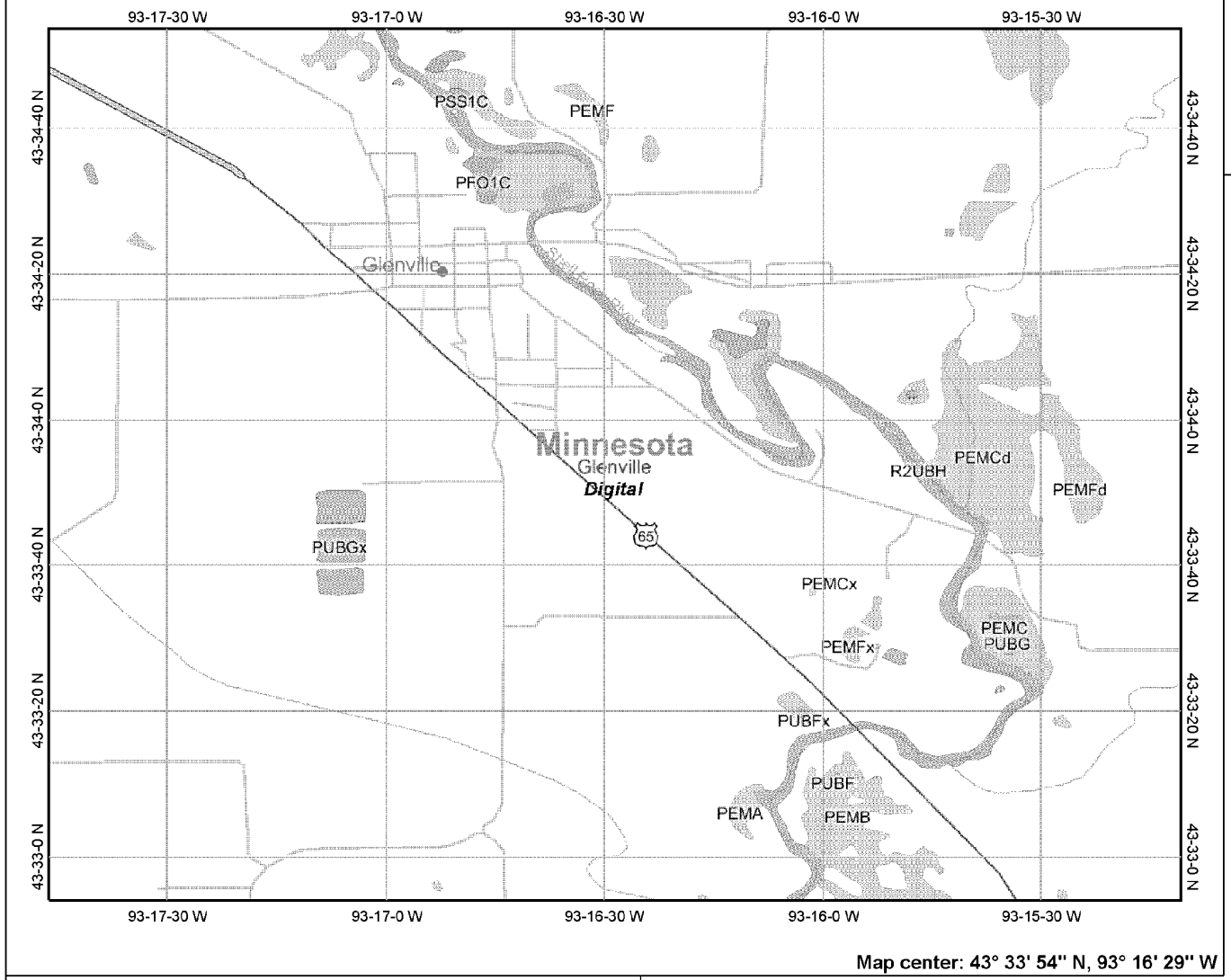
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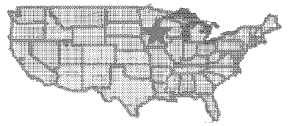
Minnesota Pollution Control Agency

Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- MFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

Glenville Wetland Map





Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:25,874

Map center: 43° 33' 54" N, 93° 16' 29" W

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

2222.1243

STATE_02822200

Minnesota Unique Well No.
103524

County Freeborn
Quad
Quad ID 10

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/08/1988
Update Date 07/27/2000
Received Date

Well Name WAALKENS, JOHN
Township Range Dir Section Subsections Elevation 1220 **ft.**
101 20 W 8 BCCAD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
100 **ft.**	100 **ft.**	03/20/1976

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 18 **ft.**

Casing Diameter	Weight	Hole Diameter
5 in. to 78 ft.	15 lbs./ft.	

Open Hole from 78 ft. to 100 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
TOP SOIL	BLACK	SOFT	0	3
SAND & GRAVEL	BROWN	SOFT	3	70
LIMESTONE	GRAY	HARD	70	100

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after 75 hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☑ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Information from neighbor
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 478457 **Y:** 4823711

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed
Manufacturer's name FLINT AND WALLING Model number 10KB
__ HP 0.5 Volts 220
Length of drop Pipe 10 ft. Capacity 10 g.p.m Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Morrison Well Co. 24001 MORRISON WELL
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Cedar Valley Group
Last Strat Cedar Valley Group
Aquifer Cedar Valley Group
Depth to Bedrock 70 **ft.**

County Well Index Online Report | **103524** | Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
132514

County Freeborn
Quad
Quad ID 10

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/08/1988
Update Date 07/27/2000
Received Date

Well Name NELSON, HARLAND
Township Range Dir Section Subsections Elevation 1230 **ft.**
101 20 W 7 DCCBD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
125 ft.	125 ft.	05/18/1976

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 2 **ft.**

Casing Diameter	Weight	Hole Diameter
5 in. to 95 ft.	15 lbs./ft.	

Geological Material	Color	Hardness	From	To
TOPSOIL	BLACK		0	2
CLAY	YELLOW		2	18
CLAY	BLUE		18	35
CLAY	BROWN		35	40
CLAY	BLUE		40	48
CLAY	BROWN		48	64
CLAY	DK. BRN		64	70
SHALE	GREEN		70	80
SHALE & LIMESTONE		MEDIUM	80	94
LIMESTONE	BROWN		94	115
OPEN HOLE			115	123
LIMESTONE			123	125

Open Hole from 95 ft. to 125 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
30 ft. from Land surface Date Measured 05/18/1976

PUMPING LEVEL (below land surface)
52 ft. after 2 hrs. pumping 150 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
NO. 103531 IS A DUPLICATE OF THIS LOG.

Grouting Information Well Grouted? ☐ Yes ☑ No

Located Minnesota Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Name on mailbox **Date** N/A

System *UTM - Nad83, Zone15, Meters* **X:** 477550 **Y:** 4822890

Nearest Known Source of Contamination
50 feet North West direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☑ Not Installed Date Installed
Manufacturer's name JACUZZI Model number ___ HP 0.5 Volts 220
Length of drop Pipe 36 ft. Capacity 10 g.p.m Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐
Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification

License Business Name	Lic. Or Reg. No.	Name of Driller
Morrison Well Co.	24001	MORRISON, D.

First Bedrock Cedar Valley Group
Last Strat Cedar Valley Group
Aquifer Cedar Valley Group
Depth to Bedrock 70 **ft.**

County Well Index Online Report | **132514** | Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
132548

County Freeborn
Quad
Quad ID 10

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/08/1988
Update Date 05/10/2007
Received Date

Well Name HAGEN, LILLIAN
Township Range Dir Section Subsections Elevation 1233 **ft.**
101 20 W 6 CCCCC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
127 **ft.**	127 **ft.**	03/11/1977

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 2 **ft.**

Casing Diameter	Weight	Hole Diameter
5 in. to 101 ft.	15 lbs./ft.	

Open Hole from 101 ft. to 127 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
50 ft. from Land surface Date Measured 03/11/1977

PUMPING LEVEL (below land surface)
58 ft. after 2 hrs. pumping 75 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
RR 2
GLENVILLE MN 56036

Geological Material	Color	Hardness	From	To
TOP SOIL	BLACK		0	2
CLAY	YELLOW		2	18
CLAY	BLUE		18	33
CLAY	YELLOW		33	55
CLAY	BLUE		55	80
SHALE	GREEN		80	88
SHALE	WHITE		88	90
LIMESTONE	BROWN		90	112
SHALE	WHITE		112	120
LIMESTONE	GRAY		120	127

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☑ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Information from neighbor
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 476725 **Y:** 4824361

Nearest Known Source of Contamination
85 feet N direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0 Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Morrison Well Co. 24001 MORRISON WELL
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Cedar Valley Group
Last Strat Cedar Valley Group
Aquifer Cedar Valley Group
Depth to Bedrock 80 **ft.**

County Well Index Online Report

132548

Printed 6/27/2008
HE-01205-07

STATE_02822203

2222.1246

Minnesota Unique Well No.
152795

County Freeborn
Quad
Quad ID 10

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/08/1988
Update Date 07/27/2000
Received Date

Well Name LENZ, THEO

Township	Range	Dir	Section	Subsections	Elevation	Elevation Method
101	20	W	7	DBBBCC	1235 ft.	7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
111 ft.	111 ft.	00/00/1979

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 2 **ft.**

Casing Diameter	Weight	Hole Diameter
5 in. to 91 ft.	15 lbs./ft.	

Open Hole from 91 ft. to 111 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
TOP SOIL	BLACK		0	2
GRAVEL			2	18
CLAY	YELLOW		18	45
CLAY	BLUE		45	76
LIMESTONE	BROWN		76	80
SHALE			80	85
LIMESTONE			85	98
SHALE + LIMESTONE	BROWN		98	108
LIMESTONE	BROWN		108	111

Static Water Level
23 ft. from Land surface Date Measured 1979

PUMPING LEVEL (below land surface)
43 ft. after 2 hrs. pumping 100 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☑ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Information from owner
Date N/A

System *UTM - Nad83, Zone15, Meters*
X: 477559 **Y:** 4823454

Nearest Known Source of Contamination
65 feet South West direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0 Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification

License Business Name	Lic. Or Reg. No.	Name of Driller
Morrison Well Co.	24001	MORRISON, D.

First Bedrock Cedar Valley Group
Last Strat Cedar Valley Group
Aquifer Cedar Valley Group
Depth to Bedrock 76 **ft.**

County Well Index Online Report

152795

Printed 6/27/2008
HE-01205-07

STATE_02822204

2222.1247

Minnesota Unique Well No.
191940

County Freeborn
Quad Glenville
Quad ID 10D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/08/1988
Update Date 11/26/2007
Received Date

Well Name SOIL EXPLORATION
Township Range Dir Section Subsections Elevation 1235 **ft.**

101	20	W	7	ACBCDB	**Elevation Method**	7.5 minute topographic map (+/- 5 feet)

Well Depth	**Depth Completed**	**Date Well Completed**
32 **ft.**	32 **ft.**	04/18/1985

Drilling Method Cable Tool

Geological Material	**Color**	**Hardness**	**From**	**To**
TOPSOIL	BLACK		0	3
SAND & GRAVEL	YELLOW		3	27
SAND & GRAVEL	BROWN		27	29
CLAY	BLUE		29	32

Drilling Fluid

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 2 **ft.**

Casing Diameter	**Weight**	**Hole Diameter**
11 in. to 12 ft.	49 lbs./ft.	
20 in. to 19 ft.	78.6 lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	**Slot/Gauze**	**Length**	**Set Between**
14	20	20	30 ft. and 10 ft.

Static Water Level
11 ft. from Land surface Date Measured 04/18/1985

PUMPING LEVEL (below land surface)
17.3 ft. after 100 hrs. pumping 10 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
SPEEDY MART GAS STATION, CO. RD. 5 & HWY. 65

Located Mankato State University **Method** Digitization (Screen) - Map (1:24,000)
Unique Number Verification N/A **Date** 11/20/2003
System *UTM - Nad83, Zone15, Meters* **X:** 477537 **Y:** 4823778

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Neat Cement from 0 to 3 ft.

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☑ No

Pump ☐ Not Installed Date Installed
Manufacturer's name GRUNDFOS Model number SP4-6
__ HP 0.5 Volts 230
Length of drop Pipe 28 ft. Capacity 20 g.p.m
Type Submersible Material Galvanized

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
LEDBETTER, B.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Clay-gray
Aquifer Quat. Water Table Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **191940** | Printed 6/27/2008 HE-01205-07

STATE_02822205

2222.1248

SITE SUMMARY

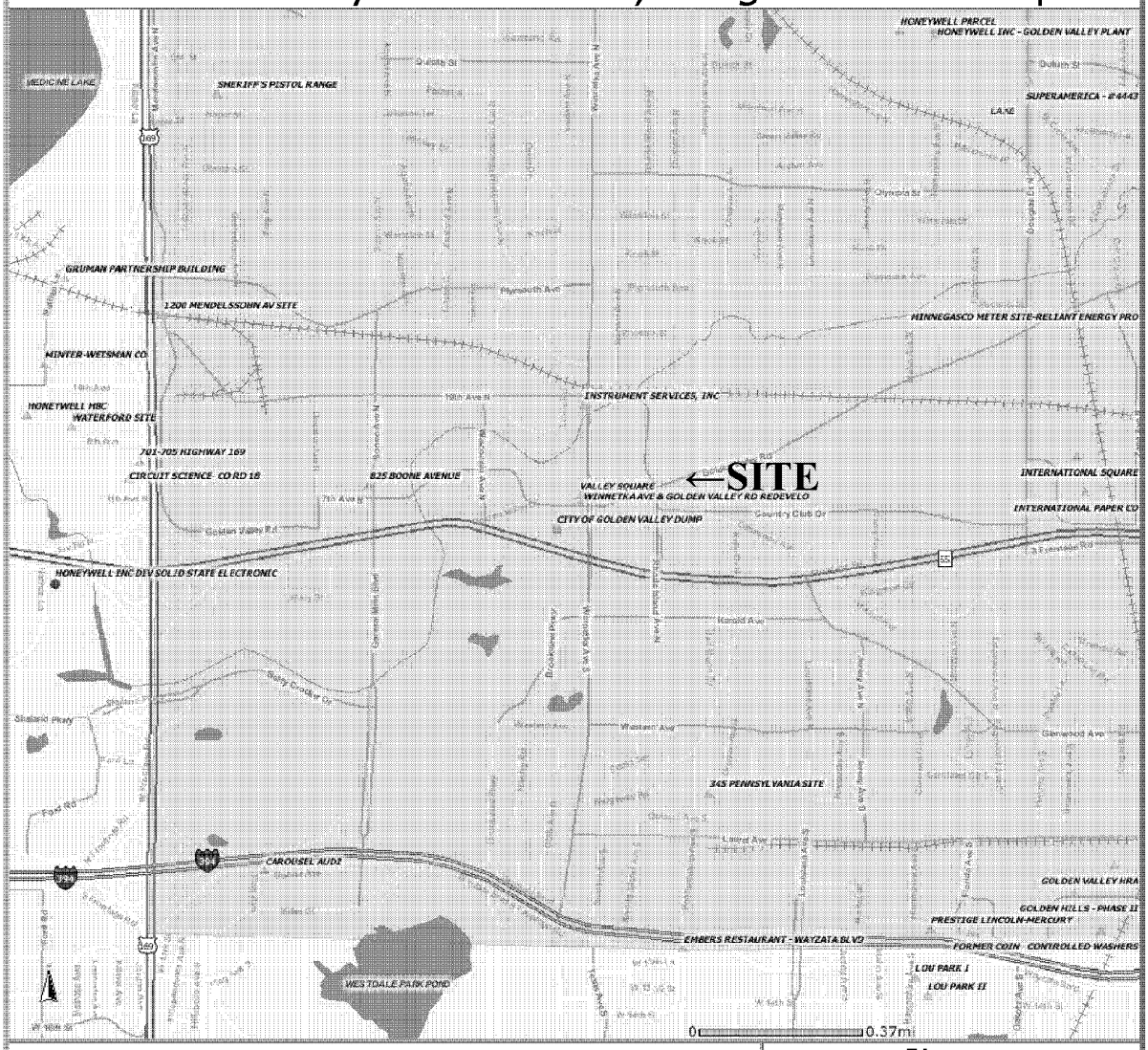
Site Name:	Golden Valley
Fire Department:	Golden Valley Fire Department 7800 Golden Valley Road Golden Valley, MN 55427
Site Contact:	Mark Kuhnly, Fire Chief 763-593-8080 mkuhnly@ci.golden-valley.mn.us

Training Location:	7800 Golden Valley Road, Golden Valley
Type of foam used in training:	AR-AFFF: Angus Class A: Angus
Foam training frequency:	Semi-Annually
Foam use per training event:	5 to 10 gallons
Spent foam destination:	Storm sewer, ground
Annual foam use:	AR-AFFF: 20 gallons Class A: 50 gallons
Nearest surface water:	Bassett Creek less than 1/4 mile to the north-northwest
Nearest wetland:	1/4 to 1/2 mile southwest
Karst Area:	Training site appears to be located in a transition or covered karst area
Nearest water well:	Less than 1/8 mile north and south
Nearest Wellhead Protection Area:	Training site located in Wellhead Protection Area
SITE RANKING:	**22**

GOLDEN VALLEY CWI Well Map



Golden Valley *What's In My Neighborhood* Map



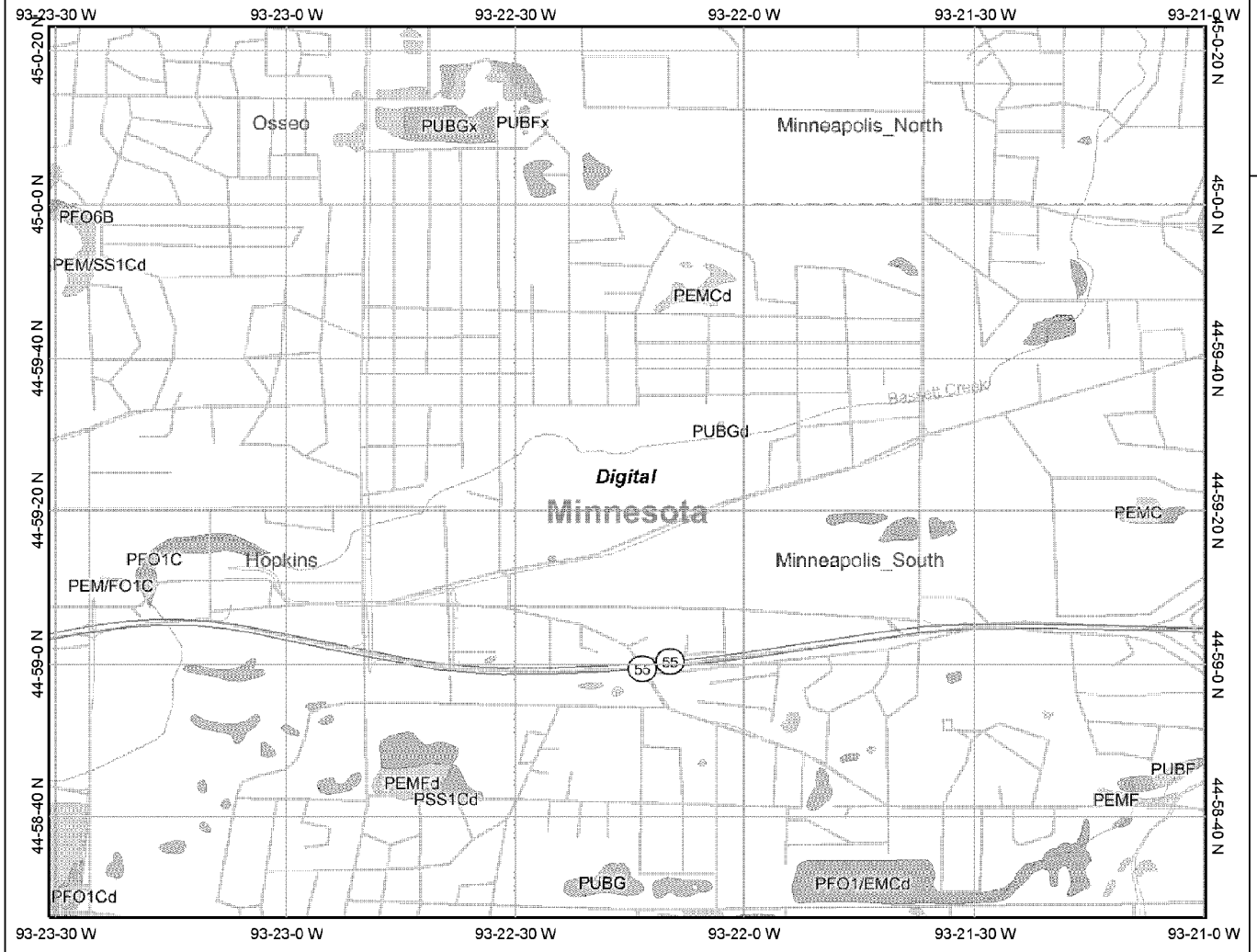
Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

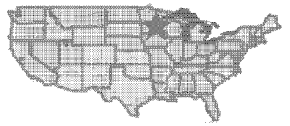
Minnesota Pollution Control Agency

Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NPL/AP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

Golden Valley Wetland Map





Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:25,160

Map center: 44° 59' 25" N, 93° 22' 15" W

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

2222.1252

STATE_02822209

Minnesota Unique Well No.
203911

County Hennepin
Quad Hopkins
Quad ID 104B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/24/1991
Update Date 09/11/1991
Received Date

Well Name

Township Range Dir Section Subsections Elevation 902 **ft.**

118	21	W	32	BCABCB	**Elevation Method**	7.5 minute topographic map (+/- 5 feet)

Well Depth	**Depth Completed**	**Date Well Completed**
85 **ft.**	85 **ft.**	07/20/1960

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 63 ft.	lbs./ft.	

Open Hole from 63 ft. to 85 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
825 RHODE ISLAND AV N
GOLDEN VALLEY MN

Geological Material	Color	Hardness	From	To
SANDY-CLAY	YELLOW		0	17
CLAY	BLUE		17	33
SANDY MUCK	BROWN		33	44
HEAVY GRAVEL	BROWN		44	63
LIME ROCK	BLUE		63	81
ST. PETER SANDSTONE	WHITE		81	85

Static Water Level
18 ft. from Land surface Date Measured 07/20/1960

PUMPING LEVEL (below land surface)
18 ft. after hrs. pumping 60 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 470222 **Y:** 4981758

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed
Manufacturer's name AERMOTOR Model number G-50M
__ HP 0.5 Volts
Length of drop Pipe 36 ft. Capacity __g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

First Bedrock Platteville **Last Strat** St.Peter	**Aquifer** Multiple **Depth to Bedrock** 63 **ft.**	**Well Contractor Certification** Renner E.H. & Sons 27015 License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	**203911**	Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
203913

County Hennepin
Quad Hopkins
Quad ID 104B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/24/1991
Update Date 09/11/1991
Received Date

Well Name CALVARY LUTHERAN CHURCH

Township	Range	Dir	Section	Subsections	Elevation	Elevation Method
118	21	W	32	BCDAAB	905 ft.	7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
110 ft.	110 ft.	03/30/1961

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 ft.

Casing Diameter	Weight	Hole Diameter
8 in. to 77 ft.	lbs./ft.	

Open Hole from 77 ft. to 110 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
7520 GOLDEN VALLEY RD
GOLDEN VALLEY MN

Geological Material	Color	Hardness	From	To
GRAVEL	BROWN		0	15
SANDY CLAY	BROWN		15	76
LIMESTONE	GRAY		76	89
SHALE	RED		89	95
SANDSTONE	GRAY		95	110

Static Water Level
30 ft. from Land surface Date Measured 03/30/1961

PUMPING LEVEL (below land surface)
36 ft. after hrs. pumping 140 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 470366 **Y:** 4981637

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed
Manufacturer's name RED JACKET Model number 300 KL 11P
__ HP 3 Volts
Length of drop Pipe 63 ft. Capacity 50 g.p.m
Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

STATE_02822212

2222.1255

First Bedrock Platteville **Last Strat** St.Peter	**Aquifer** Multiple **Depth to Bedrock** 76 **ft.**	**Well Contractor Certification** Renner E.H. & Sons 27015 License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	**203913**	Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
203915

County Hennepin
Quad Hopkins
Quad ID 104B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/24/1991
Update Date 09/11/1991
Received Date

Well Name PHIL CAVANAUGH

Township	Range	Dir	Section	Subsections	Elevation	Elevation Method
118	21	W	32	CBABA	895 ft.	7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
72 ft.	72 ft.	12/10/1957

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
3 in. to 65 ft.	lbs./ft.	

Open Hole from 65 ft. to 72 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
520 RHODE ISLAND AV N
GOLDEN VALLEY MN

Geological Material	Color	Hardness	From	To
SANDY CLAY	BROWN		0	20
MUCKY SAND	GRAY		20	54
PACK GRAVEL	BLACK		54	63
BROKEN LIME	GRAY		63	72
BROKEN LIMESTONE	GRAY		72	72

Static Water Level
20 ft. from Land surface Date Measured 12/10/1957

PUMPING LEVEL (below land surface)
0 ft. after hrs. pumping 12 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 470339 **Y:** 4981367

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed
Manufacturer's name AERMOTOR Model number ___ HP 0.75 Volts
Length of drop Pipe 27 ft. Capacity _g.p.m Type Jet Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

STATE_02822214

2222.1257

First Bedrock Platteville **Last Strat** Platteville	**Aquifer** Platteville **Depth to Bedrock** 63 **ft.**	**Well Contractor Certification** Renner E.H. & Sons 27015 License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	**203915**	Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
203917

County Hennepin
Quad Hopkins
Quad ID 104B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/24/1991
Update Date 01/17/1992
Received Date

Well Name RED OWL STORE
Township Range Dir Section Subsections Elevation 895 **ft.**
118 21 W 32 CBB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
95 **ft.**	95 **ft.**	07/31/1959

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
6 in. to 87 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** other

Diameter	Slot/Gauze	Length	Set Between
6	25	8	0 ft. and ft.

Well Address
7820 OLSEN HY
GOLDEN VALLEY MN

Geological Material	Color	Hardness	From	To
FILL MATERIAL	DARK		0	12
SAND	TAN		12	40
PACK GRAVEL	DARK		40	76
COARSE SAND	BROWN		76	95

Static Water Level
25 ft. from Land surface Date Measured 07/31/1959

PUMPING LEVEL (below land surface)
28 ft. after hrs. pumping 58 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located United States Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 470076 **Y:** 4981279

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed
Manufacturer's name MYERS Model number SA 300 A4 HP 3 Volts
Length of drop Pipe 60 ft. Capacity 50 g.p.m Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

First Bedrock
Last Strat Sand
Aquifer Quat. Water Table Aquifer
Depth to Bedrock ft.

Well Contractor Certification
Renner E.H. & Sons 27015
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report | **203917** | Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
203918

County Hennepin
Quad Hopkins
Quad ID 104B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/24/1991
Update Date 09/11/1991
Received Date

Well Name

Township Range Dir Section Subsections Elevation 890 **ft.**

118	21	W	32	CBCDCB	**Elevation Method**	7.5 minute topographic map (+/- 5 feet)

Well Depth	**Depth Completed**	**Date Well Completed**
87 **ft.**	87 **ft.**	10/30/1961

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
3 in. to ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
7732 HAROLD AV
GOLDEN VALLEY MN

Geological Material	Color	Hardness	From	To
SAND	BLACK		0	6
GRAVEL			6	20
CLAY			20	35
SAND			35	60
DIRTY SAND & GRAVEL			60	75
WATER SAND			75	87
LIMEROCK			87	87

Static Water Level
30 ft. from Land surface Date Measured 10/30/1961

PUMPING LEVEL (below land surface)
0 ft. after hrs. pumping 20 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification N/A
Date N/A

System *UTM - Nad83, Zone15, Meters*
X: 470120 **Y:** 4981035

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0 Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

First Bedrock Platteville
Last Strat Platteville
Aquifer
Depth to Bedrock 87 **ft.**

Well Contractor Certification
Associated Well Co. 27259
License Business Name Lic. Or Reg. No. Name of Driller

STATE_02822217

2222.1260

County Well Index Online Report	203918	Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
203924

County Hennepin
Quad Minneapolis South
Quad ID 104A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/24/1991
Update Date 09/11/1991
Received Date

Well Name CARL ROAN
Township Range Dir Section Subsections Elevation 890 **ft.**
118 21 W 32 DBCDAD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
260 **ft.**	260 **ft.**	10/27/1958

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Well Address
6935 GLENWOOD AV
GOLDEN VALLEY MN

Casing Diameter	Weight	Hole Diameter
4 in. to 195 ft.	lbs./ft.	

Geological Material	Color	Hardness	From	To
SAND & CLAY	BROWN		0	30
SANDY CLAY	BLUE		30	50
CLAY	BLUE		50	65
CLAY	BROWN		65	75
GRAVEL	DARK		75	84
BROKEN LIMESTONE & GRAVEL	GRAY		84	105
SANDSTONE	GRAY		105	125
SANDSTONE	WHITE		125	195
SANDSTONE	WHITE		195	210
SHALE	RED		210	234
SANDSTONE	GRAY	HARD	234	253
SHAKOPEE	PINK		253	260

Open Hole from 195 ft. to 260 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
28 ft. from Land surface Date Measured 10/27/1958

PUMPING LEVEL (below land surface)
31 ft. after hrs. pumping 20 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 470961 **Y:** 4981053

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed
Manufacturer's name MYERS Model number SA 50 A4
__ HP 0.5 Volts
Length of drop Pipe 36 ft. Capacity __g.p.m Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Renner E.H. & Sons 27015
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Platteville
Last Strat Prairie Du Chien Group
Aquifer Multiple
Depth to Bedrock 84 **ft.**

County Well Index Online Report

203924

Printed 6/27/2008
HE-01205-07

Minnesota Unique Well No.
203978

County Hennepin
Quad Hopkins
Quad ID 104B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/24/1991
Update Date 09/11/1991
Received Date

Well Name NORTHERN STATES POWER SU
Township Range Dir Section Subsections Elevation 900 **ft.**
118 21 W 31 AACDCB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
92 **ft.**	92 **ft.**	06/15/1957

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
6 in. to 64 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen **Make** **Type**
Diameter **Slot/Gauze** **Length** **Set Between**

Well Address
901 MINNETONKA AV N
GOLDEN VALLEY MN

Geological Material	Color	Hardness	From	To
DRY GRAVEL	BROWN		0	20
SANDY CLAY	BLUE		20	48
WATER SAND	BROWN		48	49
SANDY CLAY	RED		49	65
LIMESTONE	GRAY		65	78
SHALE	GREEN		78	80
SANDSTONE	GRAY		80	92

Static Water Level
22 ft. from Land surface Date Measured 06/15/1957

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 469748 **Y:** 4981851

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0 Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Renner E.H. & Sons 27015
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Platteville
Last Strat St.Peter
Aquifer Multiple
Depth to Bedrock 65 **ft.**

County Well Index Online Report	203978	Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
203979

County Hennepin
Quad Hopkins
Quad ID 104B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 08/24/1991
Update Date 09/11/1991
Received Date

Well Name

Township Range Dir Section Subsections Elevation 895 **ft.**

118	21	W	31	ADCADB	**Elevation Method**	7.5 minute topographic map (+/- 5 feet)

Well Depth	**Depth Completed**	**Date Well Completed**
153 **ft.**	153 **ft.**	08/15/1955

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	**Weight**	**Hole Diameter**
3 in. to ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter	**Slot/Gauze**	**Length**	**Set Between**

Well Address
8120 MAREN LA
GOLDEN VALLEY MN

Geological Material	**Color**	**Hardness**	**From**	**To**
GRAVEL			0	10
CLAY			10	40
GRAVEL			40	50
CLAY			50	70
SANDROCK			70	153

Static Water Level
40 ft. from Land surface Date Measured 08/15/1955

PUMPING LEVEL (below land surface)
0 ft. after hrs. pumping 20 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 469773 **Y:** 4981556

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

First Bedrock St.Peter **Last Strat** St.Peter	**Aquifer** **Depth to Bedrock** 70 **ft.**	**Well Contractor Certification** License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	**203979**	Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
203980

County Hennepin
Quad Hopkins
Quad ID 104B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/24/1991
Update Date 09/11/1991
Received Date

Well Name

Township Range Dir Section Subsections Elevation 905 **ft.**

118	21	W	31	ADDBBB	**Elevation Method**	7.5 minute topographic map (+/- 5 feet)

Well Depth	**Depth Completed**	**Date Well Completed**
248 **ft.**	248 **ft.**	11/22/1960

Drilling Method --

Drilling Fluid
--

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	**Weight**	**Hole Diameter**
4 in. to 216 ft.	lbs./ft.	

Open Hole from 216 ft. to 248 ft.

Screen NO **Make** **Type**

Diameter	**Slot/Gauze**	**Length**	**Set Between**

Well Address
8125 LEWIS RD
GOLDEN VALLEY MN

Geological Material	**Color**	**Hardness**	**From**	**To**
CLAY & GRAVEL			0	62
PLATTEVILLE LIMESTONE			62	75
SHALE			75	80
ST PETER			80	189
SHALE			189	204
ST PETER			204	248
SHAKOPEE			248	248

Static Water Level
56 ft. from Land surface Date Measured 11/22/1960

PUMPING LEVEL (below land surface)
0 ft. after hrs. pumping 20 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 469850 **Y:** 4981626

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed
Manufacturer's name AERMOTOR Model number ___ HP 0.75 Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Stodola Don Well Co. 27172
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Platteville
Last Strat Prairie Du Chien Group
Aquifer Multiple
Depth to Bedrock 62 **ft.**

County Well Index Online Report | **203980** | Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
213208

County Hennepin
Quad Hopkins
Quad ID 104B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/24/1991
Update Date 02/01/2006
Received Date

Well Name MRS. JOHN MUELLANEY
Township Range Dir Section Subsections Elevation 908 **ft.**

118	21	W	32	BBCCBC	**Elevation Method**	7.5 minute topographic map (+/- 5 feet)

Well Depth	**Depth Completed**	**Date Well Completed**
79 **ft.**	79 **ft.**	07/22/1955

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter

Open Hole from ft. to ft.

Screen	Make	Type

Diameter	Slot/Gauze	Length	Set Between

Well Address
1016 WINNETKA AV N
GOLDEN VALLEY MN

Geological Material	Color	Hardness	From	To
CLAY			0	30
HARDPAN			30	60
GRAVEL			60	72
LIME ROCK			72	79

Static Water Level
36 ft. from Land surface Date Measured 07/22/1955

PUMPING LEVEL (below land surface)
0 ft. after hrs. pumping 15 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
3 IN. CASING 127104B5507221182132BBCCB
NO CASING RECORD-AQUIFIER UNKOWN

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number
Verification N/A
Date 02/01/2006
System *UTM - Nad83, Zone15, Meters*
X: 470016 **Y:** 4981903

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed
Manufacturer's name Model number __ HP 0 Volts
Length of drop Pipe _ft. Capacity 8 g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Platteville
Last Strat Platteville
Aquifer
Depth to Bedrock 72 **ft.**

County Well Index Online Report	213208	Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
223776

County Hennepin
Quad Hopkins
Quad ID 104B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 08/24/1991
Update Date 09/11/1991
Received Date

Well Name HOPE CHEST BUILDING
Township Range Dir Section Subsections Elevation 909 **ft.**
118 21 W 31 ADDDDD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
88 ft.	88 ft.	12/27/1956

Drilling Method --

Well Address
605 WINNETKA AV
GOLDEN VALLEY MN

Geological Material	Color	Hardness	From	To
CLAY	BROWN		0	10
CLAY	BLUE		10	45
DRY STONES	BLUE		45	56
WATER SAND	GRAY		56	88

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Commercial

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** other

Diameter	Slot/Gauze	Length	Set Between
4	18	5	0 ft. and ft.

Static Water Level
36 ft. from Land surface Date Measured 12/27/1956

PUMPING LEVEL (below land surface)
39 ft. after hrs. pumping 23 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Address verification
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 469983 **Y:** 4981434

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Renner E.H. & Sons 27015
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **223776** | Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
224074

County Hennepin
Quad Hopkins
Quad ID 104B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/24/1991
Update Date 05/06/2005
Received Date

Well Name

Township Range Dir Section Subsections Elevation 890 **ft.**

118	21	W	32	CBDBDA	**Elevation Method**	7.5 minute topographic map (+/- 5 feet)

Well Depth	**Depth Completed**	**Date Well Completed**
91 **ft.**	91 **ft.**	04/28/1959

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
3 in. to 63 ft.	lbs./ft.	

Open Hole from 63 ft. to 91 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
420 RHODE ISLAND RD
HOPKINS MN

Geological Material	Color	Hardness	From	To
SANDY CLAY	BROWN		0	9
SAND	BROWN		9	31
SAND	GRAY		31	40
WATER SAND	GRAY		40	63
LIMESTONE	GRAY		63	77
SHALE	GREEN		77	80
SANDSTONE	WHITE		80	91

Static Water Level
20 ft. from Land surface Date Measured 04/28/1959

PUMPING LEVEL (below land surface)
23 ft. after hrs. pumping 15 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
WELL SEALED 11-21-1990 BY 27172
ORIGINAL USE DO - DOMESTIC

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number
Verification Other, note in remarks **Date** N/A

System *UTM - Nad83, Zone15, Meters* **X:** 470279 **Y:** 4981135

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0 Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Renner E.H. Well 71015
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Platteville
Last Strat St.Peter
Aquifer Multiple
Depth to Bedrock 63 **ft.**

County Well Index Online Report	224074	Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
241384

County Hennepin
Quad Hopkins
Quad ID 104B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/18/1995
Update Date 10/11/1995
Received Date

Well Name VALLEY PLAZA
Township Range Dir Section Subsections Elevation 890 **ft.**
118 21 W 32 CBBDBD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
257 ft.	257 ft.	

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Commercial

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
6 in. to 213 ft.	lbs./ft.	

Well Address
7700 OLSON MEMORIAL HY
GOLDEN VALLEY MN

Open Hole from 213 ft. to 257 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
GLACIAL DRIFT			0	93
ST. PETER SANDSTONE			93	242
PRAIRIE DU CHIEN GROUP			242	257

Static Water Level
62 ft. from Land surface Date Measured 04/17/1995

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
GAMMA LOGGED 4-17-1995.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)

Unique Number Verification Information from owner
Date 08/30/2004

System *UTM - Nad83, Zone15, Meters*
X: 470164 **Y:** 4981263

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Borehole Geophysics Yes
First Bedrock St.Peter
Last Strat Prairie Du Chien Group
Aquifer Multiple
Depth to Bedrock 93 **ft.**

Well Contractor Certification
Minnesota Geological Survey MGS
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report

241384

Printed 6/27/2008
HE-01205-07

Minnesota Unique Well No.
243402

County Hennepin
Quad Hopkins
Quad ID 104B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/24/1991
Update Date 10/11/1995
Received Date

Well Name VIETH, ANNE

Township	Range	Dir	Section	Subsections	Elevation
118	21	W	32	CBDCCB	890 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
245 ft.	245 ft.	

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Domestic

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 ft.

Casing Diameter	Weight	Hole Diameter
3 in. to 123 ft.	lbs./ft.	

Open Hole from 123 ft. to 245 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
409 RHODE ISLAND AV N
GOLDEN VALLEY MN

Geological Material	Color	Hardness	From	To
GLACIAL DRIFT			0	86
ST. PETER SANDSTONE			86	245

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
GAMMA LOGGED 2-12-91.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification N/A
Date 08/30/2004
System *UTM - Nad83, Zone15, Meters*
X: 470237 **Y:** 4981057

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Borehole Geophysics Yes
First Bedrock St.Peter
Last Strat St.Peter
Aquifer St.Peter
Depth to Bedrock 86 ft.

Well Contractor Certification
License Business Name Lic. Or Reg. No. Name of Driller

STATE_02822231

2222.1274

County Well Index Online Report	243402	Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
27W0020065

County Hennepin
Quad Hopkins
Quad ID 104B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/22/2003
Update Date 01/07/2005
Received Date

Well Name

Township Range Dir Section Subsections Elevation 908 **ft.**

118 21 W 31 DAAABB **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth ft. | **Depth Completed ft.** | **Date Well Completed**

Drilling Method

Drilling Fluid

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use

Casing Type **Joint** **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter **Weight** **Hole Diameter**

Open Hole from ft. to ft.

Screen
Diameter **Slot/Gauze** **Length** **Set Between**

Geological Material **Color** **Hardness** **From** **To**

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Department of Health
Method GPS Differentially Corrected
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 469922 **Y:** 4981391

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification

First Bedrock
Last Strat
Aquifer
Depth to Bedrock ft.

License Business Name Lic. Or Reg. No. Name of Driller

STATE_02822233

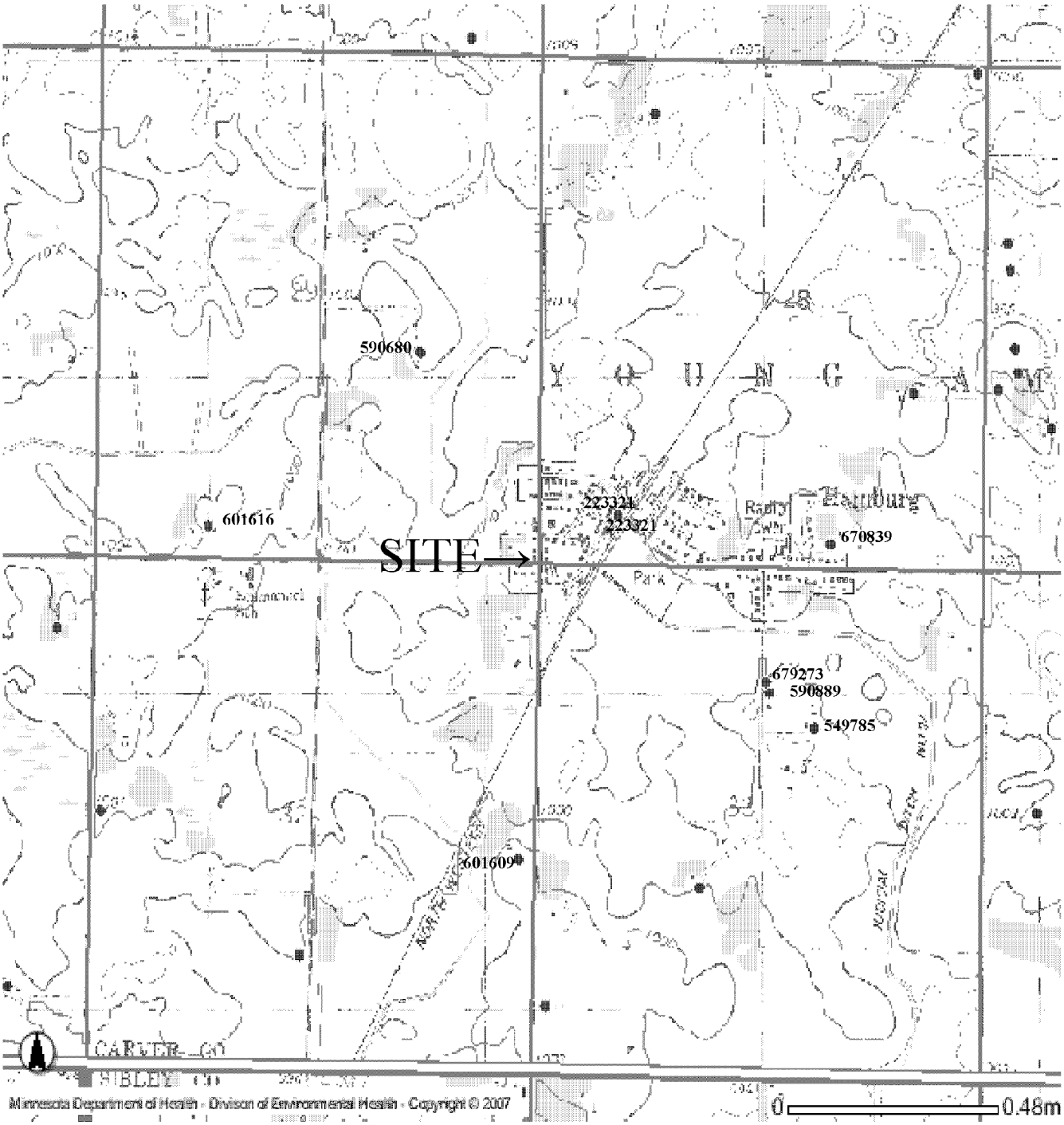
County Well Index Online Report	27W0020065	Printed 6/27/2008 HE-01205-07

SITE SUMMARY

Site Name:	Hamburg
Fire Department:	Hamburg Fire Department 181 Broadway Avenue Hamburg, MN 55339
Site Contact:	Brad Droege, Fire Chief 952-467-3232 bdroege500@aol.com

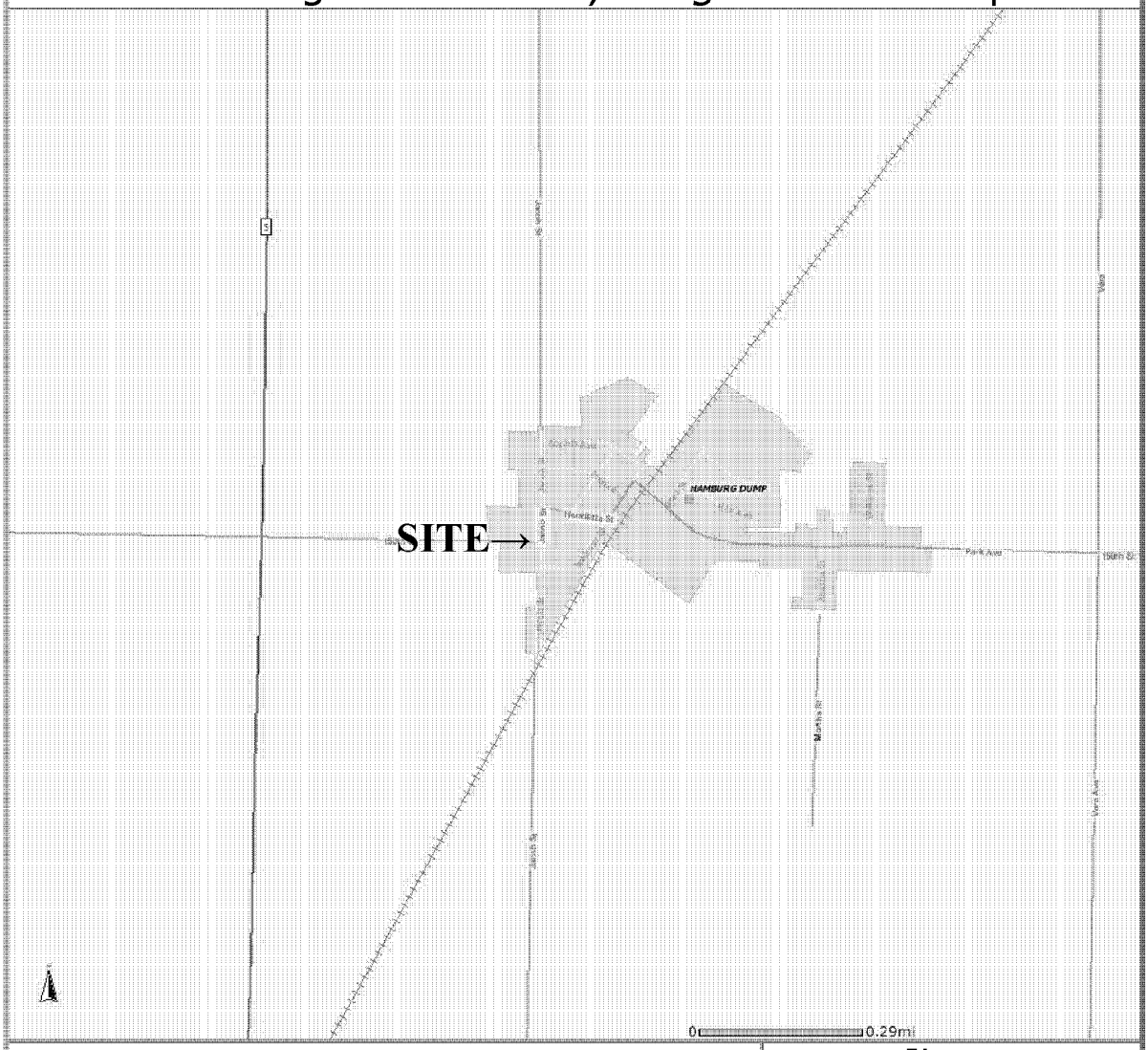
Training Location:	181 Broadway Ave., Hamburg
Type of foam used in training:	AR-FFFP: Angus
Foam training frequency:	Annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Ground
Annual foam use:	AR-FFFP: 5 gallons
Nearest surface water:	Bassett Creek less than 1/4 mile to the north-northwest
Nearest wetland:	1/4 to 1/2 mile southwest
Karst Area:	Training site is located in or near a covered karst area
Nearest water well:	Less than 1/8 mile north and south
Nearest Wellhead Protection Area:	Training site located in Wellhead Protection Area
SITE RANKING:	**13**

HAMBURG CWI Well Map



STATE_02822236

Hamburg *What's In My Neighborhood* Map



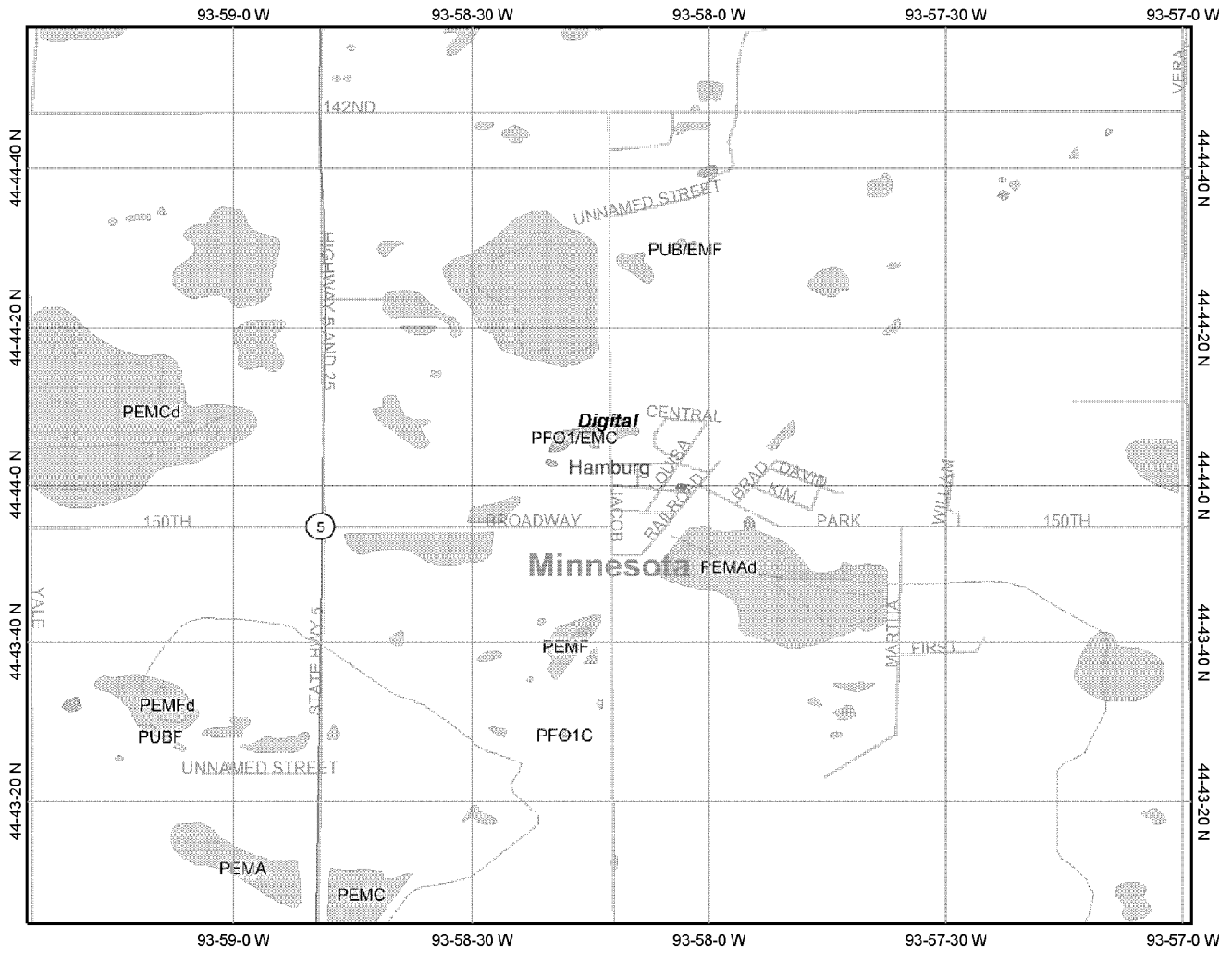
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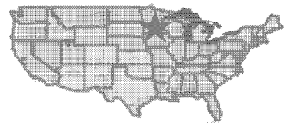
Minnesota Pollution Control Agency

Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NPL/NAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

Hamburg Wetland Map





Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:24,546

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2222.1281

STATE_02822238

Minnesota Unique Well No.
223321

County Carver
Quad
Quad ID 91

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 05/26/1988
Update Date 10/06/1993
Received Date

Well Name MPLS. & ST. LOUIS RR
Township Range Dir Section Subsections Elevation 1005 **ft.**
115 26 W 28 CCDBAB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
244 **ft.**	244 **ft.**	00/00/1944

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Commercial

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
HAMBURG MN 55339

Geological Material	Color	Hardness	From	To
YELLOW CLAY			0	7
BLUE CLAY			7	75
HARDPAN			75	119
SOFT YELLOW CLAY			119	125
HARDPAN			125	203
SANDSTONE WATER BEARING			203	209
WHITE SANDSTONE			209	244

Static Water Level
90 ft. from Land surface Date Measured 1944

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Uniqne Number
Verification Information from owner
Date N/A

System *UTM - Nad83, Zone15, Meters*
X: 423459 **Y:** 4953777

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Minnesota Dept. of Natural Resources MNDNR
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Jordan
Last Strat Jordan
Aquifer
Depth to Bedrock 203 **ft.**

County Well Index Online Report

223321

Printed 6/27/2008
HE-01205-07

Minnesota Unique Well No.
549785

County Carver
Quad Hamburg
Quad ID 91B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 06/07/1996
Update Date 06/15/2007
Received Date

Well Name SCHNEIDER, DAVID
Township Range Dir Section Subsections Elevation 1000 **ft.**
115 26 W 33 ACBDAA **Elevation Method** CALC FROM 2-FOOT COUNTY DEM

Well Depth	Depth Completed	Date Well Completed
215 **ft.**	215 **ft.**	08/15/1994

Drilling Method Non-specified Rotary

Drilling Fluid Qwik gel

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** Welded **Drive Shoe?** ☐ Yes ☑ No **Above/Below** **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 205 ft.	lbs./ft.	8 in. to 215 ft.

Open Hole from ft. to ft.

Screen YES **Make** PVC **Type** slotted pipe

Diameter	Slot/Gauze	Length	Set Between
4	15	10	205 ft. and 215 ft.

Static Water Level
96 ft. from Land surface Date Measured 08/15/1994

PUMPING LEVEL (below land surface)
215 ft. after 4 hrs. pumping 45 g.p.m.

Well Head Completion
Pitless adapter manufacturer WHITEWATER Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
15275 MARTHA ST
MN

Geological Material	Color	Hardness	From	To
CLAY	BROWN	SOFT	0	31
CLAY	GRAY	MEDIUM	31	90
CLAY W/ SAND	GRAY	MEDIUM	90	194
SAND & GRAVEL	VARIED	SOFT	194	215

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement	from 0 to 30 ft.	4 bags
Grout Material: Bentonite	from 30 to 215 ft.	

Located Carver Land & Water Services
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Address verification
Date 03/06/2007
System *UTM - Nad83, Zone15, Meters*
X: 424167 **Y:** 4953104

Nearest Known Source of Contamination
70 feet E direction Barnyard type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 08/15/1994
Manufacturer's name RED JACKET Model number 100CNS1-CN514 HP 1 Volts 230
Length of drop Pipe 120 ft. Capacity 10 g.p.m
Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Bergerson-Caswell 27058 SCHULTZ, C.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand & larger
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock **ft.**

County Well Index Online Report | **549785** | Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
590680

County Carver
Quad Hamburg
Quad ID 91B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 02/04/2002
Update Date 06/15/2007
Received Date

Well Name JOHNSON, DENNIS

Township	Range	Dir	Section	Subsections	Elevation	Elevation Method
115	26	W	29	DBADAC	1003 ft.	CALC FROM 2-FOOT COUNTY DEM

Well Depth	Depth Completed	Date Well Completed
130 ft.	130 ft.	10/10/1997

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below** ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 130 ft.	lbs./ft.	7.8 in. to 30 ft.
		6.75 in. to 130 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
2.5	12	8	122 ft. and 130 ft.

Well Address
14575 5&25 HY
HAMBURG MN 55339

Geological Material	Color	Hardness	From	To
CLAY	BROWN	MEDIUM	0	18
CLAY	GRAY	MEDIUM	18	120
SAND	GRAY	MEDIUM	120	130

Static Water Level
40 ft. from Land surface Date Measured 10/10/1997

PUMPING LEVEL (below land surface)
50 ft. after 1 hrs. pumping 20 g.p.m.

Well Head Completion
Pitless adapter manufacturer WHITEWATER Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: High solids bentonite from 0 to 30 ft. 2 bags

Located Carver Land & Water Services
Method Digitization (Screen) - Map (1:24,000)
Unique Number
Verification Address verification
Date 03/05/2007
System *UTM - Nad83, Zone15, Meters*
X: 422745 **Y:** 4954294

Nearest Known Source of Contamination
55 feet South East direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 10/10/1997
Manufacturer's name MEYERS Model number ___ HP 0.75 Volts 230
Length of drop Pipe 80 ft. Capacity 12 g.p.m
Type Submersible Material Plastic

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
Mathews Well Co. 43238 URAN, J
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report **590680** Printed 6/27/2008 HE-01205-07

STATE_02822241

2222.1284

Minnesota Unique Well No.
590889

County Carver
Quad Hamburg
Quad ID 91B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 02/04/2002
Update Date 06/15/2007
Received Date

Well Name PANNING, PAUL
Township Range Dir Section Subsections Elevation 1003 **ft.**
115 26 W 33 ABCCCD **Elevation Method** CALC FROM 2-FOOT COUNTY DEM

Well Depth	Depth Completed	Date Well Completed
210 ft.	210 ft.	11/26/1996

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below** ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 205 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	18	5	205 ft. and 210 ft.

Well Address
15175 MARTHA ST
HAMBURG MN 55339

Geological Material	Color	Hardness	From	To
TOP SOIL	BLACK	SOFT	0	3
CLAY	YELLOW	SOFT	3	20
CLAY	BLUE	SOFT	20	200
SAND			200	210

Static Water Level
120 ft. from Land surface Date Measured 11/26/1996

PUMPING LEVEL (below land surface)
144 ft. after 1 hrs. pumping 30 g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: High solids bentonite from 0 to 205 ft. 2 yrds.

Located Carver Land & Water Services
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Address verification
Date 03/06/2007
System *UTM - Nad83, Zone15, Meters*
X: 424004 **Y:** 4953218

Nearest Known Source of Contamination
60 feet N direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name STA-RITE Model number ___ HP 0.75 Volts 22
Length of drop Pipe 144 ft. Capacity 12 g.p.m
Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

First Bedrock
Last Strat Sand
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

Well Contractor Certification
Braunwarth Well Co. 10068 BRAUNWARTH, M
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report	590889	Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
601609

County Carver
Quad Hamburg
Quad ID 91B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/30/1998
Update Date 06/15/2007
Received Date

Well Name BUCKENTIN, GENE

Township	Range	Dir	Section	Subsections	Elevation Method	Elevation
115	26	W	32	DAADBD	CALC FROM 2-FOOT COUNTY DEM	1003 ft.

Well Depth	Depth Completed	Date Well Completed
211 ft.	211 ft.	01/17/1998

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below** ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 206 ft.	lbs./ft.	6.5 in. to 211 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	22	5	206 ft. and 211 ft.

Well Address
15450 JACOB ST
HAMBURG MN

Geological Material	Color	Hardness	From	To
TOP SOIL	BLACK	SOFT	0	3
CLAY	YELLOW	SOFT	3	20
CLAY	BLUE	SOFT	20	125
SAND			125	130
CLAY	BLUE	MEDIUM	130	204
SAND			204	211

Static Water Level
105 ft. from Land surface Date Measured 01/17/1998

PUMPING LEVEL (below land surface)
126 ft. after 1 hrs. pumping 40 g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: High solids bentonite from 0 to 206 ft. 2.5 yrds.

Located Carver Land & Water Services
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Address verification
Date 03/05/2007
System *UTM - Nad83, Zone15, Meters*
X: 423099 **Y:** 4952689

Nearest Known Source of Contamination
100 feet E direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 01/17/1998
Manufacturer's name STA RITE Model number ___ HP 0.75 Volts 220
Length of drop Pipe 126 ft. Capacity 10 g.p.m
Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
Braunwarth Well Co. 10068 BRAUNWORTH, M
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

STATE_02822244

2222.1287

County Well Index Online Report	601609	Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
601616

County Carver
Quad Hamburg
Quad ID 91B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 02/04/2002
Update Date 06/15/2007
Received Date

Well Name VOLLBRECHT, VIRGIL
Township Range Dir Section Subsections Elevation 1006 **ft.**
115 26 W 29 CDCBCC **Elevation Method** CALC FROM 2-FOOT COUNTY DEM

Well Depth	Depth Completed	Date Well Completed
106 ft.	106 ft.	03/25/1998

Drilling Method Non-specified Rotary

Well Address
18180 50 CR
HAMBURG MN

Geological Material	Color	Hardness	From	To
TOP SOIL	BLACK	SOFT	0	3
CLAY	YELLOW	SOFT	3	20
CLAY	BLUE	SOFT	20	100
SAND			100	106

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 101 ft.	lbs./ft.	4.5 in. to 106 ft.

Open Hole from ft. to ft.

Screen YES **Make** COOK **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	22	5	101 ft. and 106 ft.

Static Water Level
40 ft. from Land surface Date Measured 03/25/1998

PUMPING LEVEL (below land surface)
90 ft. after 1 hrs. pumping 40 g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: High solids bentonite from 0 to 101 ft. 1.5 yrds.

Located Carver Land & Water Services
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Address verification
Date 03/05/2007
System *UTM - Nad83, Zone15, Meters*
X: 421977 **Y:** 4953744

Nearest Known Source of Contamination
75 feet W direction Barnyard type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed 03/25/1998
Manufacturer's name STA-RITE Model number ___ HP 0.75 Volts 220
Length of drop Pipe 90 ft. Capacity 10 g.p.m
Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

First Bedrock
Last Strat Sand
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

Well Contractor Certification
Braunwarth Well Co. 10068 BRAUNWARTH, M
License Business Name Lic. Or Reg. No. Name of Driller

STATE_02822246

2222.1289

County Well Index Online Report	601616	Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
670839

County Carver
Quad Hamburg
Quad ID 91B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 05/13/2004
Update Date 06/15/2007
Received Date 12/01/2003

Well Name THAEMERT, DAVE
Township Range Dir Section Subsections Elevation 1013 **ft.**
115 26 W 28 DCDCBA **Elevation Method** CALC FROM 2-FOOT COUNTY DEM

Well Depth	Depth Completed	Date Well Completed
319 **ft.**	319 **ft.**	03/15/2003

Drilling Method Non-specified Rotary

Drilling Fluid Water

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 311 ft.	lbs./ft.	8.5 in. to 30 ft.
		6.5 in. to 319 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	12	8	311 ft. and 319 ft.

Well Address
953 PARK AV
HAMBURG MN 55339

Geological Material	Color	Hardness	From	To
CLAY	BROWN	MEDIUM	0	25
CLAY	GRAY	MEDIUM	25	180
CLAY	GRAY	SOFT	180	295
WATER SAND	GRAY	MEDIUM	295	319

Static Water Level
75 ft. from Land surface Date Measured 03/15/2003

PUMPING LEVEL (below land surface)
250 ft. after 2 hrs. pumping 25 g.p.m.

Well Head Completion
Pitless adapter manufacturer WHITEWATER Model 4 INCH
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: High solids bentonite from to 30 ft. 3 bags

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Address verification
Date 03/05/2007
System *UTM - Nad83, Zone15, Meters*
X: 424226 **Y:** 4953687

Nearest Known Source of Contamination
75 feet North East direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 03/15/2003
Manufacturer's name AERMOTOR Model number SS-75
HP 0.75 Volts 220
Length of drop Pipe 120 ft. Capacity 15 g.p.m
Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

First Bedrock
Last Strat Sand-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

Well Contractor Certification
Motzko Well Co. 86508 MOTZKO, R.
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report | **670839** | Printed 6/27/2008 HE-01205-07

STATE_02822248

2222.1291

Minnesota Unique Well No.
679273

County Carver
Quad Hamburg
Quad ID 91B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 11/19/2002
Update Date 08/06/2007
Received Date

Well Name SIWEK, DAVE
Township Range Dir Section Subsections Elevation 1002 **ft.**
115 26 W 33 ABCCCB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
520 ft.	520 ft.	10/01/2002

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☑ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 423 ft.	10.79 lbs./ft.	8 in. to 423 ft.
		5 in. to 520 ft.

Open Hole from 423 ft. to 520 ft.

Screen NO **Make** **Type**

Diameter **Slot/Gauze** **Length** **Set Between**

Well Address
15173 MARTHA ST
YOUNG AMERICA MN

Geological Material	Color	Hardness	From	To
FILL	BROWN	SOFT	0	15
CLAY	BLUE	MEDIUM	15	280
SANDROCK	WHITE	SOFT	280	370
SHALE	BLUE	MEDIUM	370	420
SANDROCK	GREEN	MEDIUM	420	520

Static Water Level
125 ft. from Land surface Date Measured 09/12/2002

PUMPING LEVEL (below land surface)
280 ft. after 2 hrs. pumping 20 g.p.m.

Well Head Completion
Pitless adapter manufacturer WHITEWATER Model SU4X5.5
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Neat Cement from 0 to 423 ft. 4 yrds.

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Tag on well
Date 07/16/2007
System *UTM - Nad83, Zone15, Meters*
X: 423994 **Y:** 4953250

Nearest Known Source of Contamination
100 feet E direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 10/01/2002
Manufacturer's name STA-RITE Model number 10P4E02
HP 1 Volts 230
Length of drop Pipe 210 ft. Capacity 10 g.p.m
Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
Kimmes-BauerDrilling 19738 OTTO, F.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Jordan
Last Strat Franconia
Aquifer Franconia
Depth to Bedrock 280 **ft.**

County Well Index Online Report

679273

Printed 6/27/2008
HE-01205-07

SITE SUMMARY

Site Name:	Hardwick
Fire Department:	Hardwick Fire Department Route 1 Hardwick, MN 56134
Site Contact:	Dan Kindt, Fire Chief 507-669-2491 dykindt@frontiernet.net

Training Location:	Ball field parking lot, Hardwick
Type of foam used in training:	Not specified, 3M foam assumed
Foam training frequency:	Annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Ground
Annual foam use:	Not specified
Nearest surface water:	Mound Creek, 1/4 to 1/3 mile west
Nearest wetland:	1/4 to 1/3 mile west
Nearest water well:	More than 1 mile
Nearest Wellhead Protection Area:	More than 1 mile
SITE RANKING:	**12**

Hardwick *What's In My Neighborhood* Map



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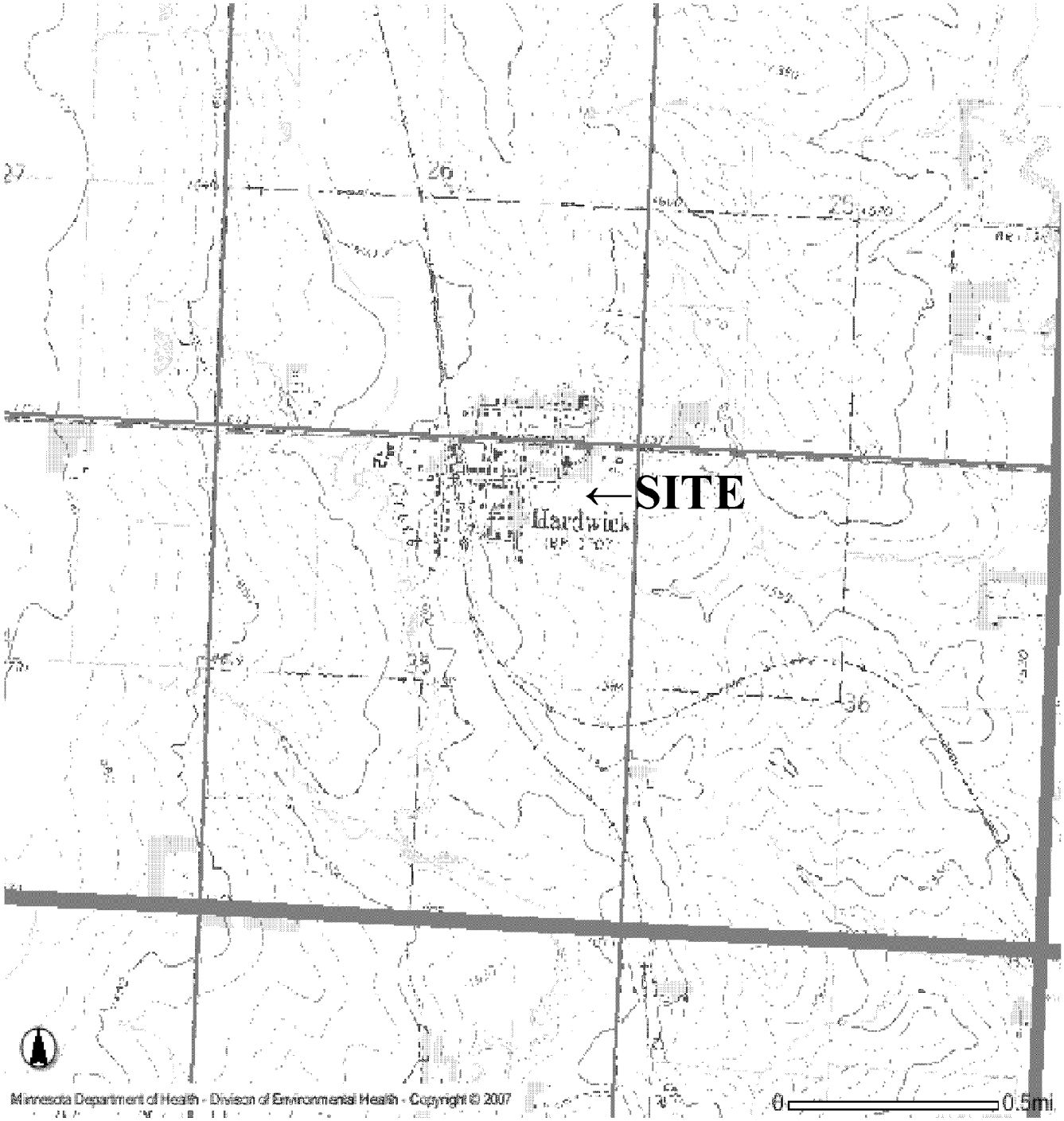
Minnesota Pollution Control Agency

Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- HFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

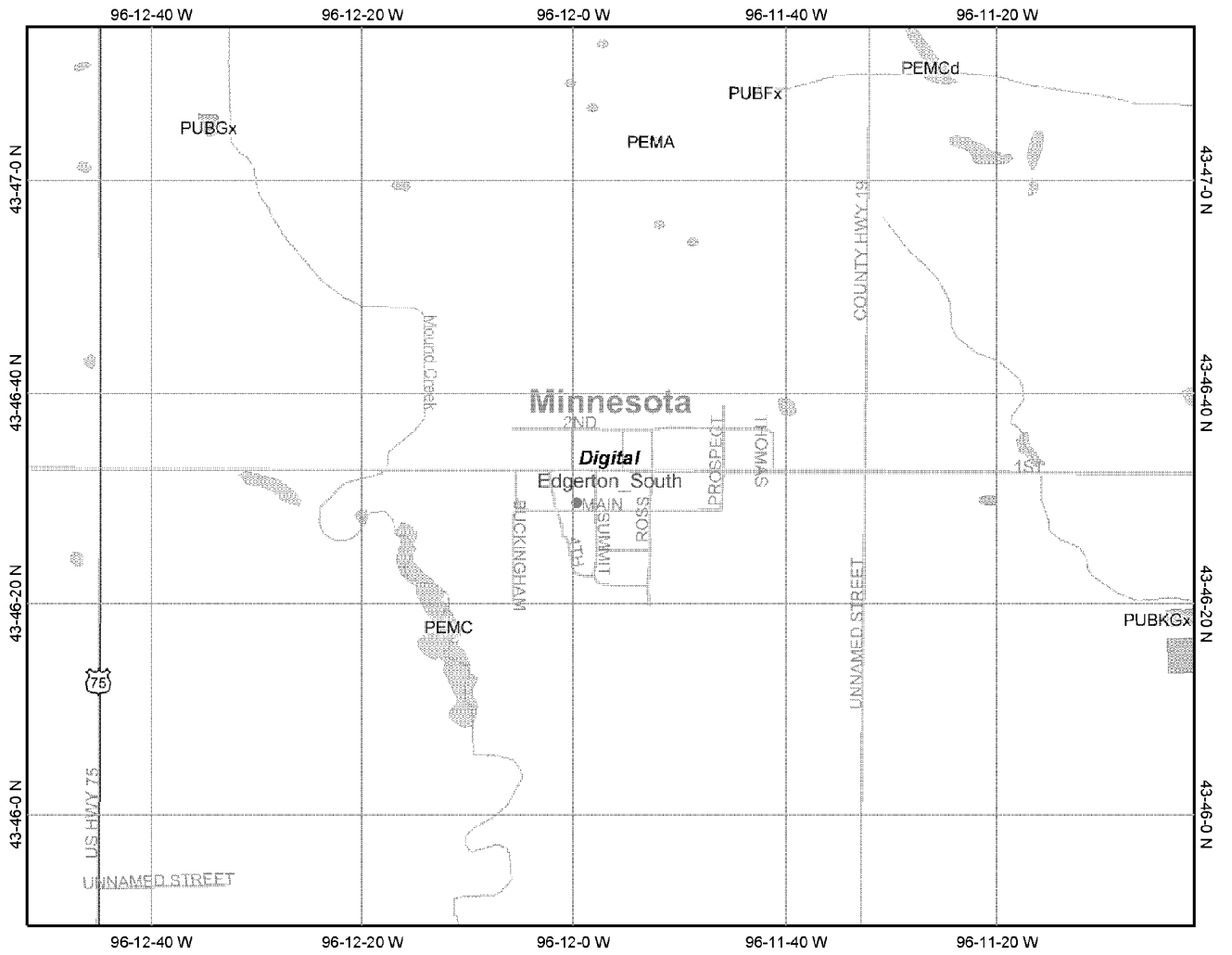
STATE_02822251

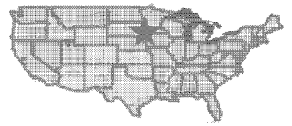
HARDWICK CWI Well Map



STATE_02822252

Hardwick Wetland Map





Legend

Ohio_wet_scan
- 0
- 1
- Out of range

Interstate

Major Roads
- Other Road
- Interstate
- State highway
- US highway

Roads

Cities

USGS Quad Index 24K

Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan

NHD Streams

Counties 100K

States 100K
- South America
- North America

Scale: 1:18,389

Map center: 43° 46' 32" N, 96° 11' 57" W

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

2222.1296

STATE_02822253

SITE SUMMARY

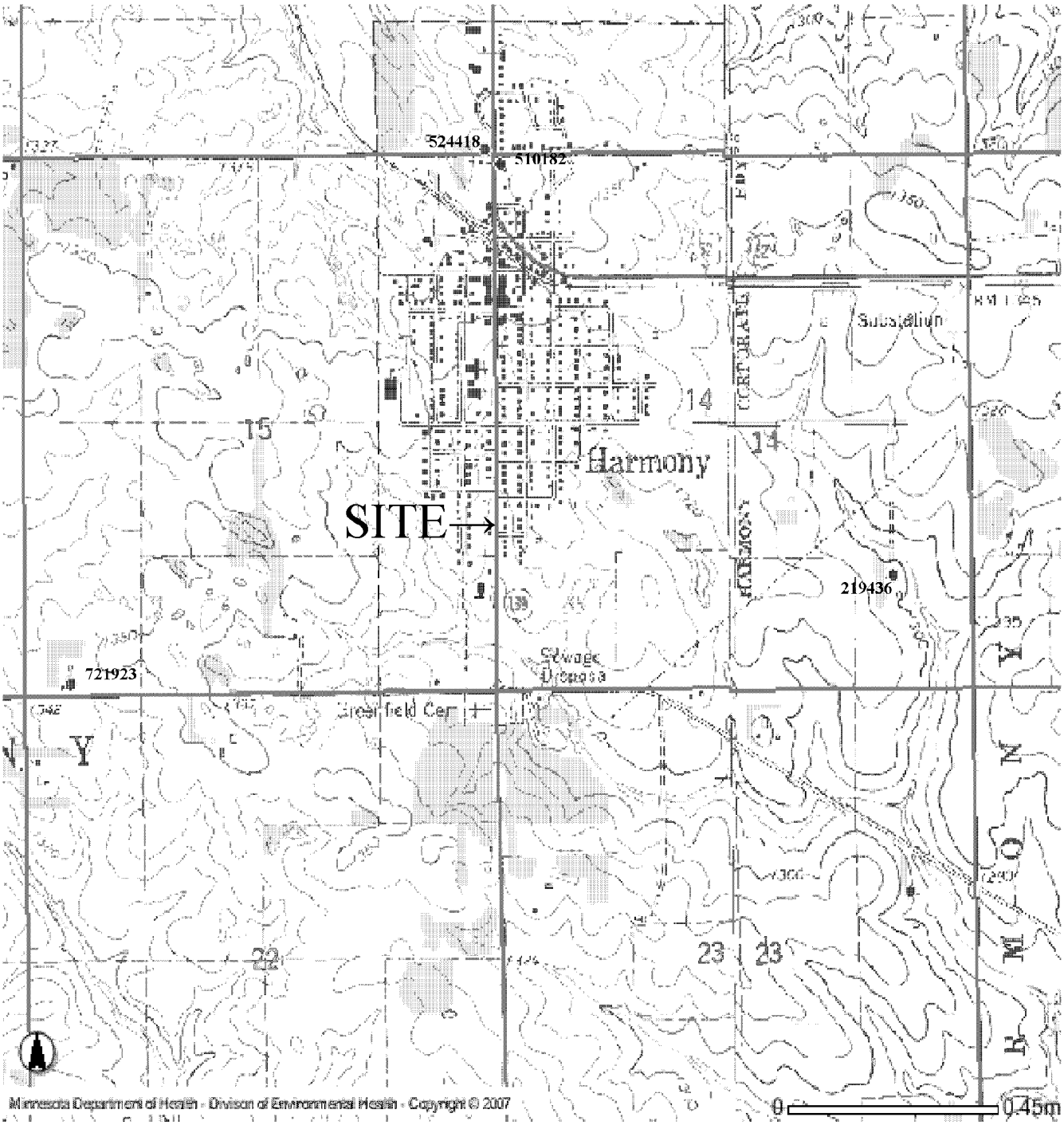
Site Name: Harmony

Fire Department: Harmony Fire Department
PO Box 344
Harmony, MN 55939

Site Contact: Bill Hanlon, Fire Chief
507-886-4600 D (5211 Hall)
harmonyvfd@yahoo.com

Training Location:	Fire hall, Main Avenue S., and a brush dump, east of intersection of 139 & Gordon Rd. (not mappable)
Type of foam used in training:	AR-AFFF: Ansulite Class A: Silv-ex Other: Aqua Eco
Foam training frequency:	Annually
Foam use per training event:	5 gallons
Spent foam destination:	Ground, storm sewer
Annual foam use:	AR-AFFF: less than 5 gallons Class A: under 5 gallons Other: 1 stick
Nearest surface water:	Intermittent stream approximately 1/4 mile south
Nearest wetland:	Approximately 1/4 mile south
Karst Area:	Training site is located in an active karst area
Nearest water well:	1/2 to 1 mile to the east and to the southwest
Nearest Wellhead Protection Area:	More than 1 mile
SITE RANKING:	**14**

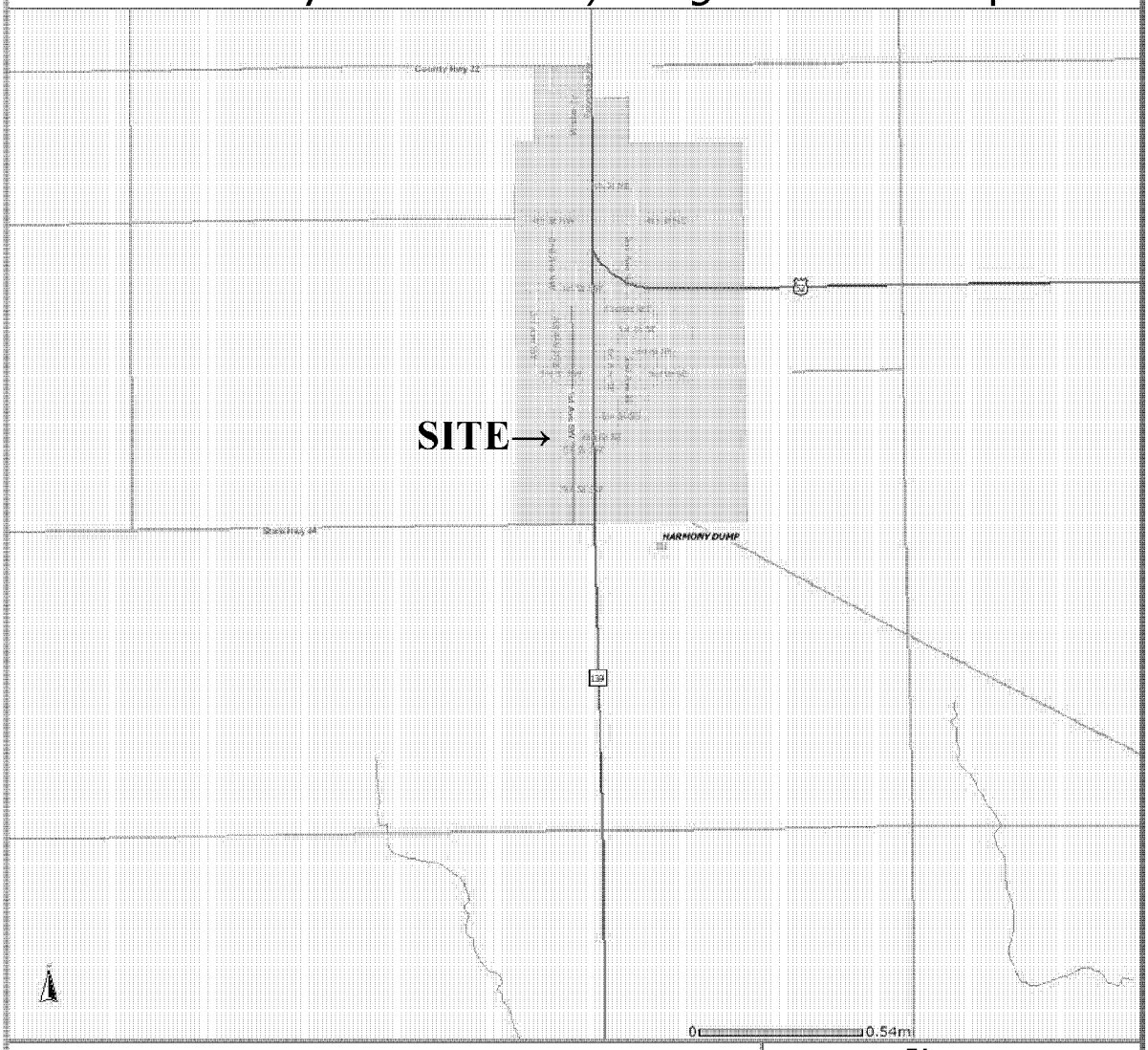
HARMONY CWI Well Map



STATE_02822255

2222.1298

Harmony *What's In My Neighborhood* Map



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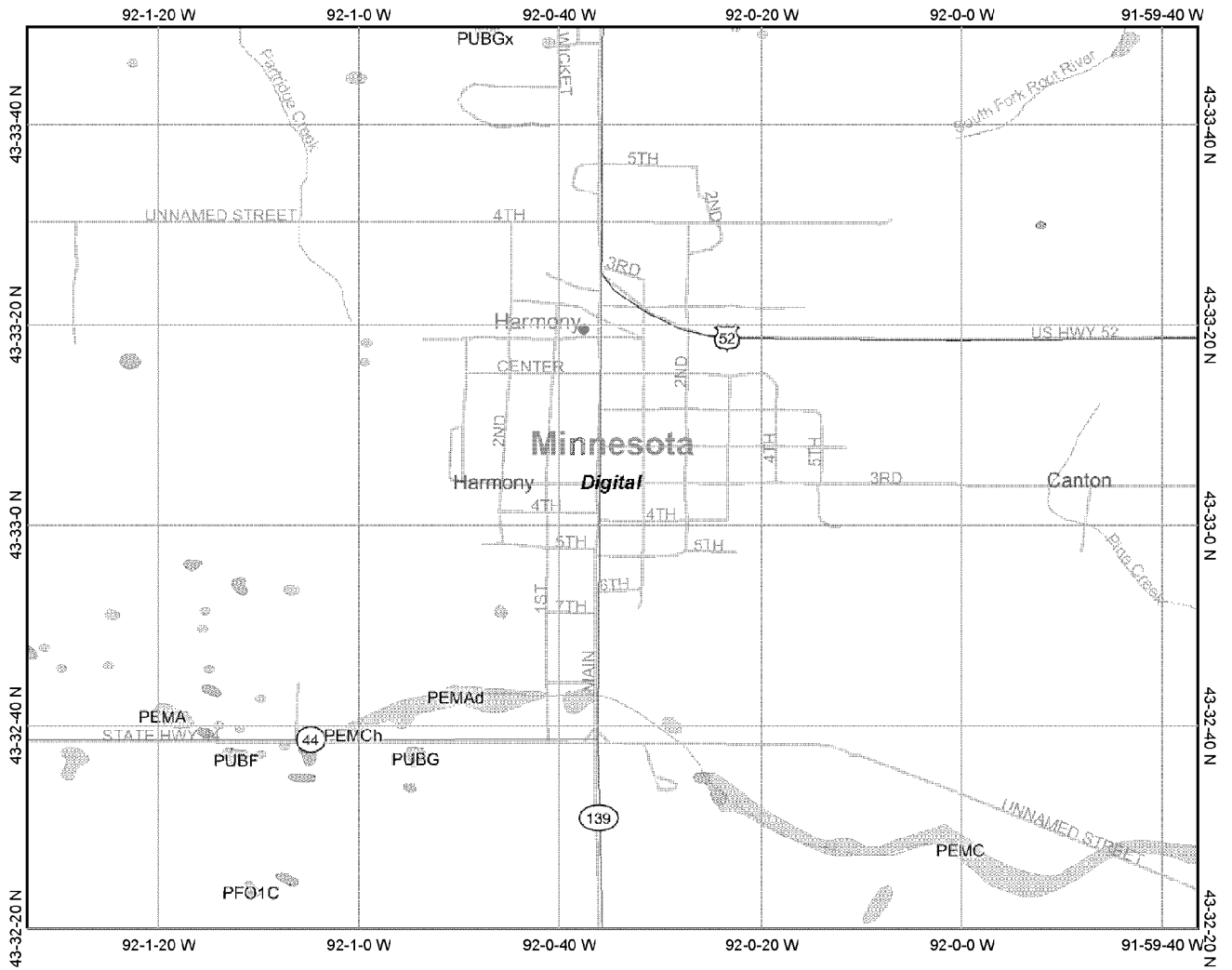
Minnesota Pollution Control Agency

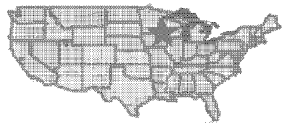
Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- HFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

STATE_02822256

Harmony Wetland Map





Legend

Ohio_wet_scan
- 0
- 1
- Out of range

Interstate

Major Roads
- Other Road
- Interstate
- State highway
- US highway

Roads

Cities

USGS Quad Index 24K

Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan

NHD Streams

Counties 100K

States 100K
- South America
- North America

Scale: 1:19,398

Map center: 43° 33' 5" N, 92° 0' 35" W

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2222.1300

STATE_02822257

Minnesota Unique Well No.
219436

County Fillmore
Quad Canton
Quad ID 4C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 12/14/1991
Update Date 05/19/1993
Received Date

Well Name STEFFENRUD, PERCY
Township Range Dir Section Subsections Elevation 1305 **ft.**
101 10 W 14 DDBACC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
380 **ft.**	380 **ft.**	04/28/1959

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
8 in. to 289 ft.	lbs./ft.	
4 in. to 289 ft.	lbs./ft.	

Open Hole from 289 ft. to 380 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
278 ft. from Land surface Date Measured 04/28/1959

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
HARMONY MN

Geological Material	Color	Hardness	From	To
DRIFT			0	17
PROSSER LIME			17	151
DECORAH SHALE			151	191
PLATTEVILLE			191	211
GLENWOOD			211	225
ST. PETER			225	288
SHAKOPEE			288	369
ROOT VALLEY			369	380

NO REMARKS

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Name on mailbox
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 581331 **Y:** 4822057

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement from 0 to 289 ft. 0

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 00/00/1959
Manufacturer's name MEYERS Model number ___ HP 1_ Volts
Length of drop Pipe 300 ft. Capacity 12 g.p.m Type Submersible Material

2222.1301

STATE_02822258

		Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No	
		Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No	
First Bedrock Galena **Last Strat** Shakopee/New Richmond Mbr	**Aquifer** Prairie Du Chien Group **Depth to Bedrock** 17 **ft.**	**Well Contractor Certification** Rowland Well Co. 23124 License Business Name Lic. Or Reg. No. Name of Driller	
County Well Index Online Report		**219436**	Printed 6/27/2008 HE-01205-07

2222.1302

STATE_02822259

Minnesota Unique Well No.
510182

County Fillmore
Quad Harmony
Quad ID 5D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 01/09/1992
Update Date 05/19/1993
Received Date

Well Name CANTON STATE BANK

Township	Range	Dir	Section	Subsections	Elevation
101	10	W	14	BBBBBB	1335 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
178 ft.	178 ft.	06/18/1990

Drilling Method Air Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Monitor well

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 2 ft.

Casing Diameter	Weight	Hole Diameter
12 in. to 26 ft.	lbs./ft.	12 in. to 58 ft.
8 in. to 58 ft.	lbs./ft.	8 in. to 148 ft.

Open Hole from 148 ft. to 178 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
171 ft. from Land surface Date Measured 06/18/1990

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
360 MAIN ST N
HARMONY MN

Geological Material	Color	Hardness	From	To
CLAY	GRAY	SOFT	0	26
FRACTURED LIMESTONE	BROWN	HARD	26	43
LIMESTONE	GRAY	HARD	43	170
SHALY LIMESTONE	GRAY	HARD	170	178

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement	from 0 to 58 ft.	3.5 yrds.
Grout Material: Neat Cement	from 0 to 148 ft.	0

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Other, note in remarks
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 579988 **Y:** 4823286

Nearest Known Source of Contamination
0 feet direction Other type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number HP 0 Volts
Length of drop Pipe ft. Capacity g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Braun Env Lab M0077 LARSON, D
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Galena
Last Strat Galena
Aquifer Galena
Depth to Bedrock 26 ft.

County Well Index Online Report

510182

Printed 6/27/2008
HE-01205-07

Minnesota Unique Well No.
524418

County Fillmore
Quad Harmony
Quad ID 5D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 12/06/1993
Update Date 04/21/2008
Received Date

Well Name KWIK TRIP STORE MW-3
Township Range Dir Section Subsections Elevation 1330 **ft.**
101 10 W 10 DDDDDC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
164 **ft.**	164 **ft.**	10/29/1993

Drilling Method Multiple methods used

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
3 in. to 70 ft.	lbs./ft.	12 in. to 11 ft.
		8 in. to 70 ft.

Open Hole from 70 ft. to 164 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
415 MAIN AV N
HARMONY MN 55939

Geological Material	Color	Hardness	From	To
TOPSOIL	DK. BRN		0	2
NO RECORD			2	11
LIMESTONE/DOLOMITE WITH CHERT	TAN/GRY	HARD	11	164

Static Water Level
77 ft. from Land surface Date Measured 11/01/1993

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
WELL SEALED 09-22-2000 BY 34625
ORIGINAL USE MW - MONITOR WELL

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Neat Cement from 0 to 70 ft. 12 bags

Located Minnesota Geological Survey **Method** Digitization (Screen) - Map (1:24,000)
Unique Number Verification Other, note in remarks **Date** 06/22/2004
System *UTM - Nad83, Zone15, Meters* **X:** 579935 **Y:** 4823332

Nearest Known Source of Contamination
75 feet E direction Volatile organic compounds type
Well disinfected upon completion? ☐ Yes ☑ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP 0 Volts
Length of drop Pipe ft. Capacity g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Braun Intertec Eng M0104 TAVES, R.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Galena **Aquifer** Galena
Last Strat Galena **Depth to Bedrock** 11 **ft.**

County Well Index Online Report **524418** Printed 6/27/2008
HE-01205-07

STATE_02822261

2222.1304

Minnesota Unique Well No.
721923

County Fillmore
Quad Harmony
Quad ID 5D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 01/04/2006
Update Date 02/16/2006
Received Date 09/30/2005

Well Name F., JAMES
Township Range Dir Section Subsections Elevation 1344 **ft.**
101 10 W 15 CCCDDB **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
485 **ft.**	485 **ft.**	09/20/2005

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 413 ft.	lbs./ft.	10 in. to 19 ft.
		8 in. to 413 ft.

Open Hole from 413 ft. to 485 ft.

Screen NO **Make** **Type**
Diameter **Slot/Gauze** **Length** **Set Between**

Well Address
RR 1 BOX 5802
HARMONY MN 55939

Geological Material	Color	Hardness	From	To
CLAY	BROWN		0	18
LIMESTONE	GRY/BRN	SFT-MED	18	239
SHALE	BLUE	MEDIUM	239	274
LIMESTONE	BROWN	HARD	274	296
SHALE	GREEN	MEDIUM	296	307
SANDSTONE	GRAY	MEDIUM	307	390
DOLOMITE	GRAY	HARD	390	454
SANDSTONE	BROWN	MEDIUM	454	477
DOLOMITE	GRAY	HARD	477	485

Static Water Level
311 ft. from Land surface Date Measured 09/20/2005

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model FEEDLOT
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
PARCEL#R 14.0093.000

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement	from	to 413 ft.	5.25 yrds.
Grout Material: Pearock	from	to 240 ft.	1 yrds.

Located Minnesota Department of Health **Method** GPS SA Off (averaged)
Unique Number Verification N/A **Date** 09/15/2005
System *UTM - Nad83, Zone15, Meters* **X:** 578520 **Y:** 4821731

Nearest Known Source of Contamination
125 feet N direction Feedlot type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 09/20/2005
Manufacturer's name GRUNDFOS Model number 25S50-26
HP 5 Volts 230
Length of drop Pipe 336 ft. Capacity 33 g.p.m
Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
Rowland Well Co. 23474 ROWLAND, S.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat
Aquifer
Depth to Bedrock **ft.**

County Well Index Online Report

721923

Printed 6/27/2008
HE-01205-07

SITE SUMMARY

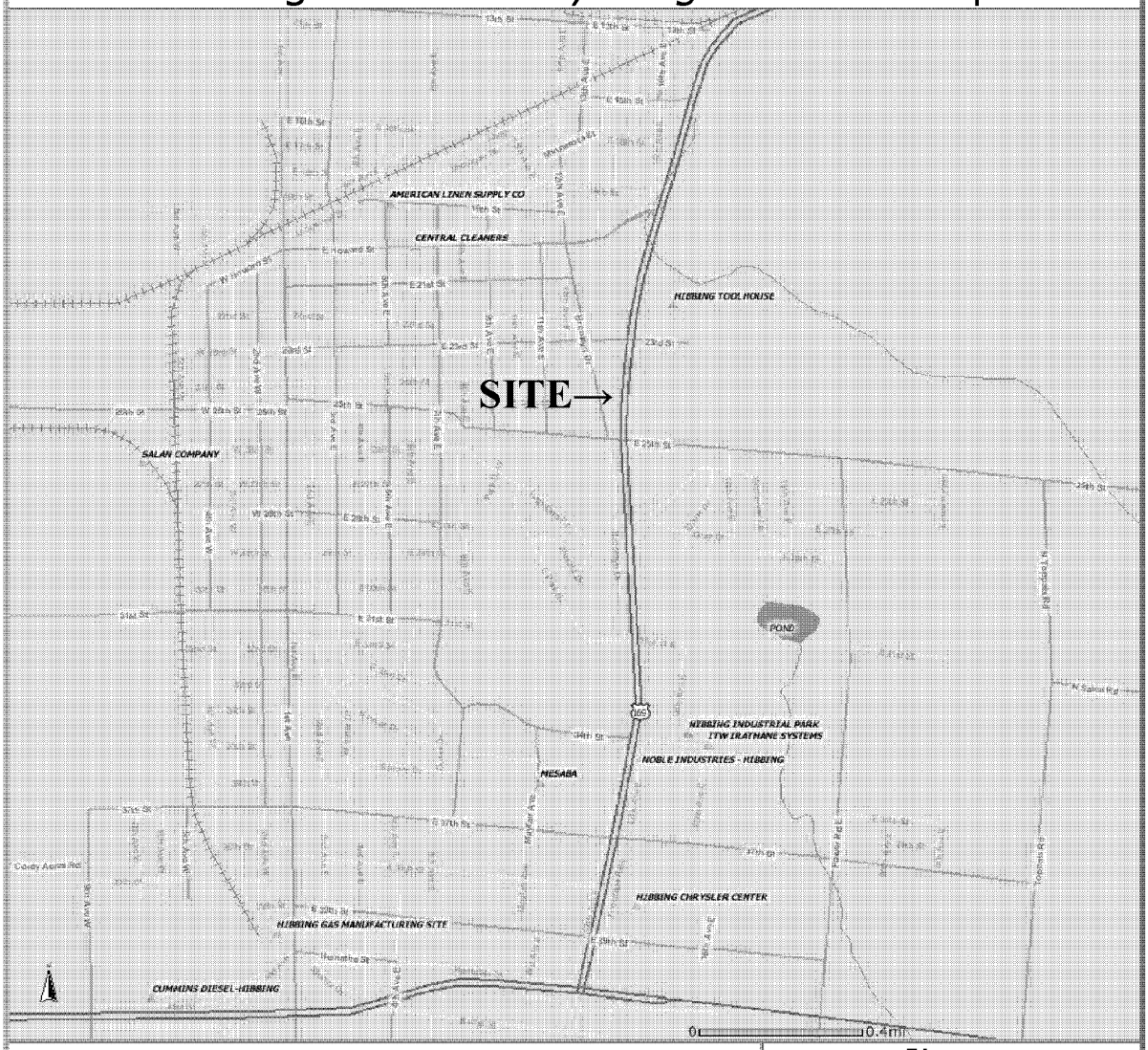
Site Name:	Hibbing
Fire Department:	Hibbing Fire Department 2320 Brooklyn Drive Hibbing, MN 55746
Site Contact:	Tony Pogorels, Fire Chief 218-362-5966 tpogorels@ci.hibbing.mn.us

Training Location:	2320 Brooklyn Drive, Hibbing
Type of foam used in training:	Other: HCT F-500
Foam training frequency:	Annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Ground
Annual foam use:	Class A: 5 gallons Other: 10 gallons
Nearest surface water:	Bryan Lake, 1/2 to 3/4 mile southeast
Nearest wetland:	1/4 to 1/3 mile east
Nearest water well:	Less than 1/4 mile south
Nearest Wellhead Protection Area:	Approximately 1/4 mile northwest
SITE RANKING:	**11**

HIBBING CWI Well Map



Hibbing *What's In My Neighborhood* Map



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Minnesota Pollution Control Agency

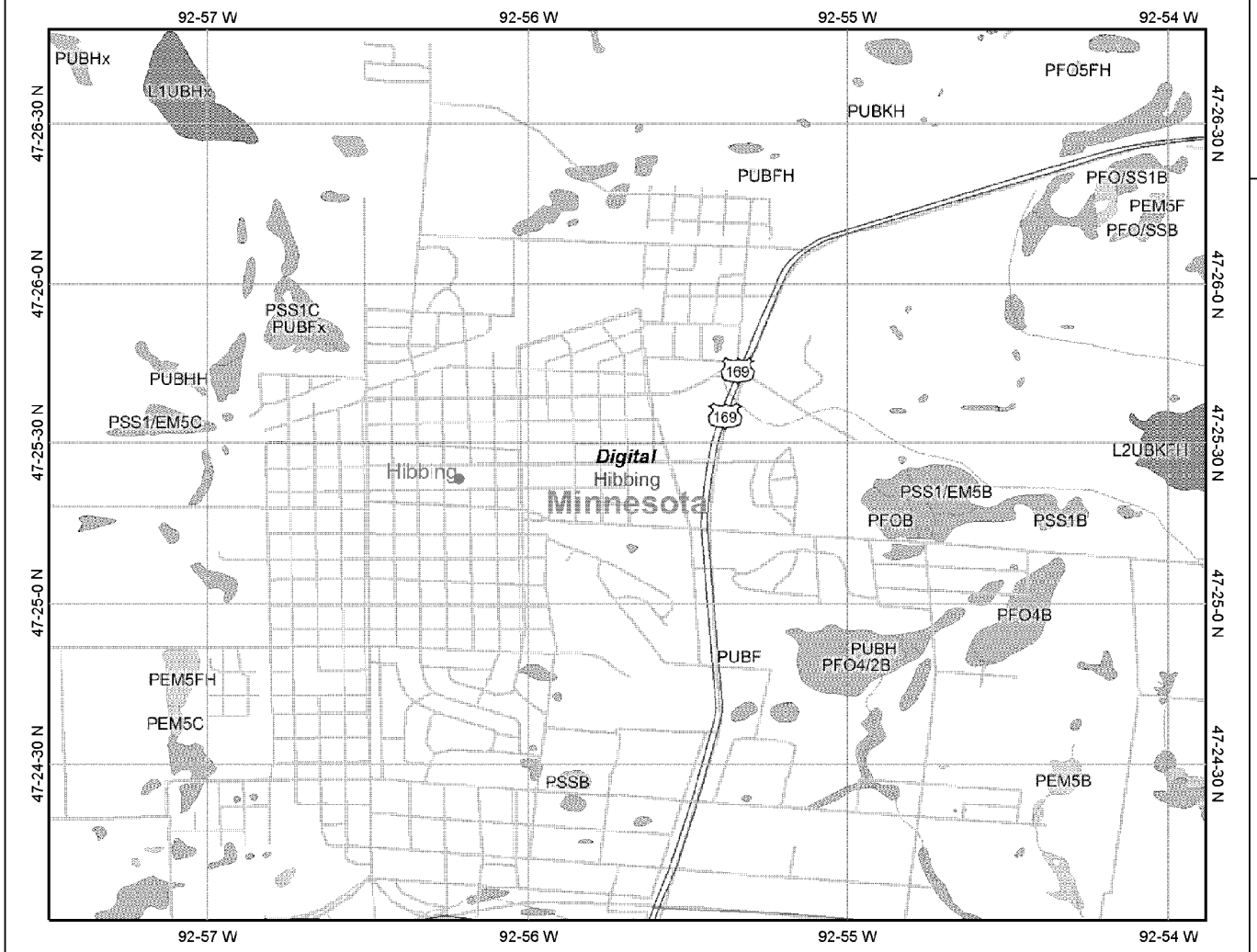
Sites

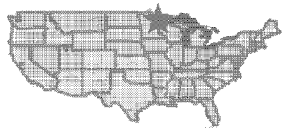
- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NPL/NAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

STATE_02822265

2222.1308

Hibbing Wetland Map





Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:36,079

Map center: 47° 25' 24" N, 92° 55' 41" W

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2222.1309

STATE_02822266

Minnesota Unique Well No.
233188

County St. Louis
Quad Hibbing
Quad ID 294B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 02/22/1988
Update Date 03/11/2005
Received Date

Well Name HIBBING TH4
Township Range Dir Section Subsections Elevation 1463 **ft.**
57 20 W 18 ADCCAD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
243 **ft.**	243 **ft.**	05/00/1956

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Test well

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter **Weight** **Hole Diameter**

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter **Slot/Gauze** **Length** **Set Between**

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
HIBBING MN 55746

Geological Material	Color	Hardness	From	To
CCLAY TILL	RED		0	13
CLAY TILL	RED/BRN		13	18
TILL			18	23
SAND			23	28
CLAY			28	43
SAND			43	63
CLAY			63	68
SAND			68	88
CLAY & BOULDERS			88	133
CLAY WHITE, BLUE, RED			133	195
LIGNITE			195	197
CLAY			197	208
SAND			208	214
CLAY			214	219
SLATE			214	243

REMARKS
WELL DRILLED BY MCCARTY WELL CO.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Information from owner **Date** N/A

System *UTM - Nad83, Zone15, Meters* **X:** 506218 **Y:** 5251929

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
United States Geological Survey USGS
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Cretaceous,Undiff. **Aquifer**
Last Strat Virginia Formation **Depth to Bedrock** 133 **ft.**

County Well Index Online Report **233188** Printed 6/27/2008
HE-01205-07

Minnesota Unique Well No.
238655

County St. Louis
Quad Buhl
Quad ID 294A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 02/22/1988
Update Date 03/11/2005
Received Date

Well Name HIBBING TH6
Township Range Dir Section Subsections Elevation 1480 **ft.**
57 20 W 18 ACCCCA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
200 **ft.**	200 **ft.**	00/00/1956

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Test well

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter	Weight	Hole Diameter

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
HIBBING MN 55746

Geological Material	Color	Hardness	From	To
CLAY TILL	RED		0	18
TILL			18	69
SILT			69	87
SAND, GRAVEL, CLAY			87	90
TILL			90	125
SILT			125	140
TILL			140	155
SHALE			155	200

REMARKS
WELL DRILLED BY MCCARTHY WELL CO.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Information from owner **Date** N/A

System *UTM - Nad83, Zone15, Meters* **X:** 505761 **Y:** 5251927

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
United States Geological Survey USGS SCHULTZ, C.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Cretaceous,Undiff.
Last Strat
Aquifer
Depth to Bedrock 155 **ft.**

County Well Index Online Report **238655** Printed 6/27/2008
HE-01205-07

Minnesota Unique Well No.
239102

County St. Louis
Quad Hibbing
Quad ID 294B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 02/22/1988
Update Date 03/16/2001
Received Date

Well Name HIBBING OIM3
Township Range Dir Section Subsections Elevation 1468 **ft.**
57 20 W 18 CAACDB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
256 ft.	256 ft.	

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Test well

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter	Weight	Hole Diameter

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
CLAY			0	10
GRAVEL			10	20
CLAY			20	40
GRAVEL & SEAMS OF FINE SAND			40	100
CLAY			100	256
BEDROCK			256	256

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Information from owner **Date** N/A

System *UTM - Nad83, Zone15, Meters* **X:** 505599 **Y:** 5251760

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
United States Geological Survey USGS
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Virginia Formation
Last Strat
Aquifer
Depth to Bedrock 256 **ft.**

County Well Index Online Report | **239102** | Printed 6/27/2008 HE-01205-07

STATE_02822269

2222.1312

Minnesota Unique Well No.
239103

County St. Louis
Quad Hibbing
Quad ID 294B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 02/22/1988
Update Date 01/18/2003
Received Date

Well Name USGS 18L-TH1
Township Range Dir Section Subsections Elevation 1485 **ft.**
57 20 W 18 CABBAB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
124 **ft.**	124 **ft.**	07/25/1957

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Test well

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter	Weight	Hole Diameter

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
CLAY TILL	RED		0	11
CLAY TILL	RED/BRN		11	25
SAND & GRAVEL			25	35
TILL			35	54
SAND & GRAVEL			54	115
CLAY			115	124

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Information from owner
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 505400 **Y:** 5251914

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
United States Geological Survey USGS SCHOCK, O.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Clay
Aquifer
Depth to Bedrock **ft.**

County Well Index Online Report	239103	Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
239104

County St. Louis
Quad Hibbing
Quad ID 294B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 02/22/1988
Update Date 03/16/2001
Received Date

Well Name HIBBING OIM1
Township Range Dir Section Subsections Elevation 1500 **ft.**
57 20 W 18 CBABDC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
300 ft.	300 ft.	

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Test well

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter	Weight	Hole Diameter

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
CLAY			0	20
COARSE GRAVEL & BOULDERS			20	80
CLAY			80	85
FINE SAND			85	125
CLAY W/SMALL SAND SEAMS			125	300
BEDROCK			300	300

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Information from owner **Date** N/A

System *UTM - Nad83, Zone15, Meters* **X:** 505185 **Y:** 5251869

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
United States Geological Survey USGS
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Virginia Formation
Last Strat
Aquifer
Depth to Bedrock 300 **ft.**

County Well Index Online Report | **239104** | Printed 6/27/2008 HE-01205-07

STATE_02822272

2222.1315

Minnesota Unique Well No.
239105

County St. Louis
Quad Hibbing
Quad ID 294B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 02/22/1988
Update Date 03/16/2001
Received Date

Well Name HIBBING OIM2
Township Range Dir Section Subsections Elevation 1520 **ft.**
57 20 W 18 CBDBAB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
330 ft.	330 ft.	

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Test well

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter	Weight	Hole Diameter

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
CLAY			0	25
QUICKSAND			25	45
CLAY			45	55
GRAVEL & BOULDERS			55	95
CLAY & A LITTLE SAND			95	155
FINE SAND			155	205
SEAMS OF CLAY SAND			205	330
BEDROCK			330	330

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Information from owner **Date** N/A

System *UTM - Nad83, Zone15, Meters* **X:** 505193 **Y:** 5251744

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
United States Geological Survey USGS
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Virginia Formation
Last Strat
Aquifer
Depth to Bedrock 330 **ft.**

County Well Index Online Report | **239105** | Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
454653

County St. Louis
Quad Hibbing
Quad ID 294B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 11/15/1990
Update Date 12/16/2002
Received Date

Well Name COUNTY COURT HOUSE
Township Range Dir Section Subsections Elevation 1485 **ft.**
57 20 W 7 DCCBDC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
445 ft.	445 ft.	02/22/1989

Drilling Method Air Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Other (specify in remarks)

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 1 **ft.**

Casing Diameter	Weight	Hole Diameter
6 in. to 261 ft.	19.45 lbs./ft.	9 in. to 261 ft.
		6 in. to 445 ft.

Open Hole from 261 ft. to 445 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
HOWARD ST
HIBBING MN 55746

Geological Material	Color	Hardness	From	To
CLAY	BROWN	MEDIUM	0	20
GRAVEL/BOULDERS	BROWN	HARD	20	38
SAND	BROWN	MEDIUM	38	45
GRAVEL/BOULDERS W/ SAND	BROWN	MED-HRD	45	60
GRAVEL W/ FINE SAND	BROWN	MEDIUM	60	77
CLAY W/ GRAVEL	GRAY	MED-HRD	77	94
GRAVEL & BOULDERS	GRAY	HARD	94	120
BOULDERS W/ FINE SAND	GRAY	MED-HRD	120	130
CEMENTED GRAVEL W/ BOULDERS	GRAY	HARD	130	175
CLAY W/ GRAVEL	BROWN	HARD	175	183
CLAY STICKY	GRAY		183	214
CLAY W/ GRAVEL	DK. GRY	HARD	214	220
CLAY STICKY	BLACK		220	255
SLATE	BLACK	MED-HRD	255	266
SLATE W/ SOFT LAYERS	BLK/GRY	MEDIUM	266	290
SHALE	GREEN	MED-HRD	290	332
SLATE	BLACK	MED-HRD	332	430
TACONITE	GRAY	V.HARD	430	445

REMARKS
ONLY ABOUT 15 GPM (NEEDS 150) HOLE TO BE ABANDONED.
USE OF WELL WAS FOR COOLING.

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Bentonite from to ft.

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number
Verification Information from owner
Date 09/22/2004
System *UTM - Nad83, Zone15, Meters*
X: 505535 **Y:** 5252807

Nearest Known Source of Contamination
50 feet S direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Petersen Well Co. 69183 PETERSEN, D.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat
Aquifer
Depth to Bedrock 255 **ft.**

County Well Index Online Report

454653

Printed 6/27/2008
HE-01205-07

STATE_02822274

SITE SUMMARY

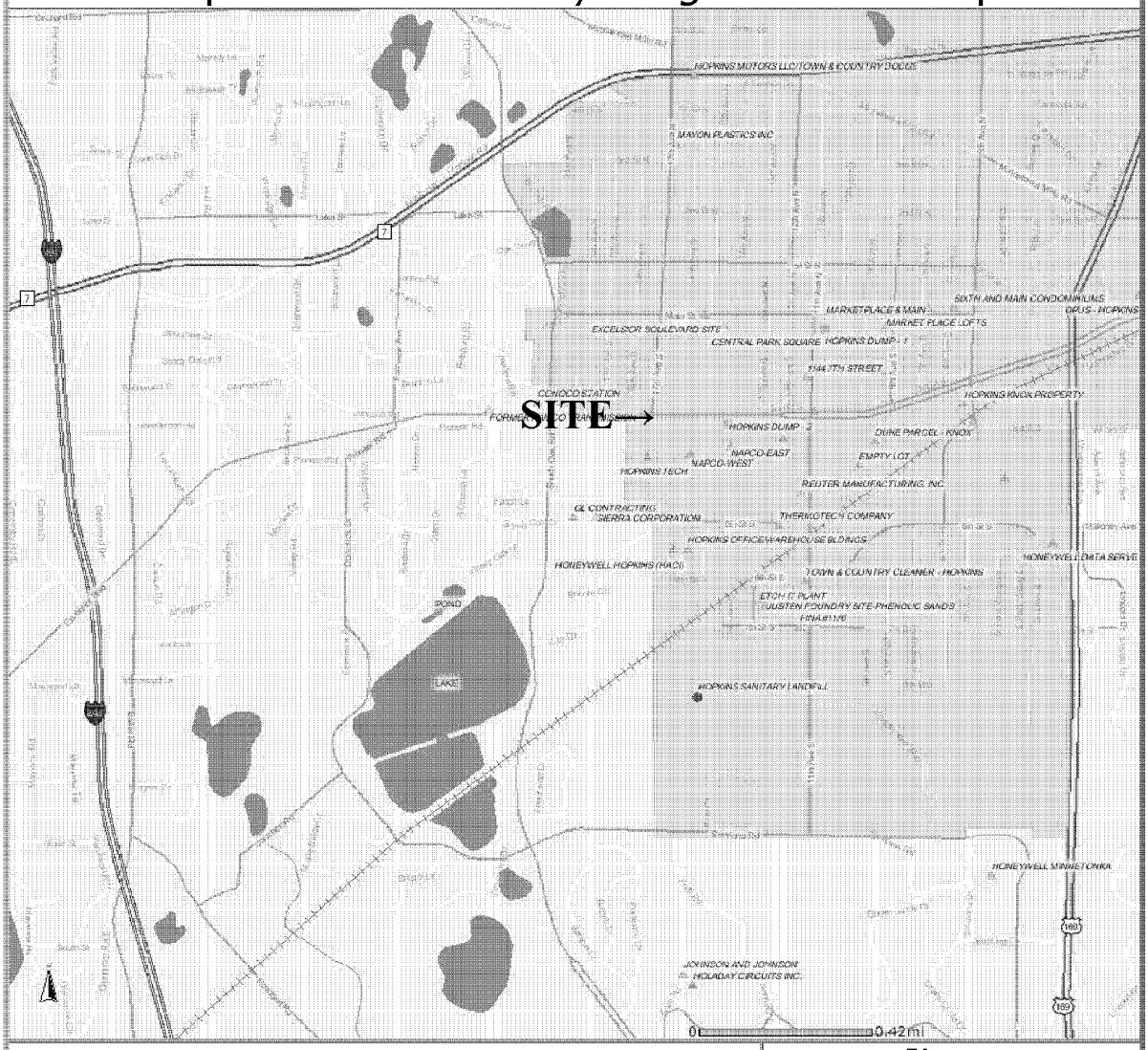
Site Name:	Hopkins
Fire Department:	Hopkins Fire Department 1010 1st Street South Hopkins, MN 55343
Site Contact:	Dale Specken, Fire Chief 952-548-6451 d.specken@hopkinsmn.com

Training Location:	101 17th Ave. S., Hopkins
Type of foam used in training:	Training foam: 3M Other: HCT F-500
Foam training frequency:	Bi-Annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Storm sewer
Annual foam use:	Class A: 10 gallons Training Foam: 10 gallons Other (Chemguard A/B): 10 gallons Other (HCT F-500): not specified
Nearest surface water:	Intermittent stream less than 1/4 mile east
Nearest wetland:	1/4 to 1/3 mile northwest
Karst Area:	Training site is located in a transition or covered karst area
Nearest water well:	Approximately 1/4 mile west
Nearest Wellhead Protection Area:	Training site located in Wellhead Protection Area
SITE RANKING:	**18**

HOPKINS CWI Well Map



Hopkins *What's In My Neighborhood* Map



Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

Minnesota Pollution Control Agency

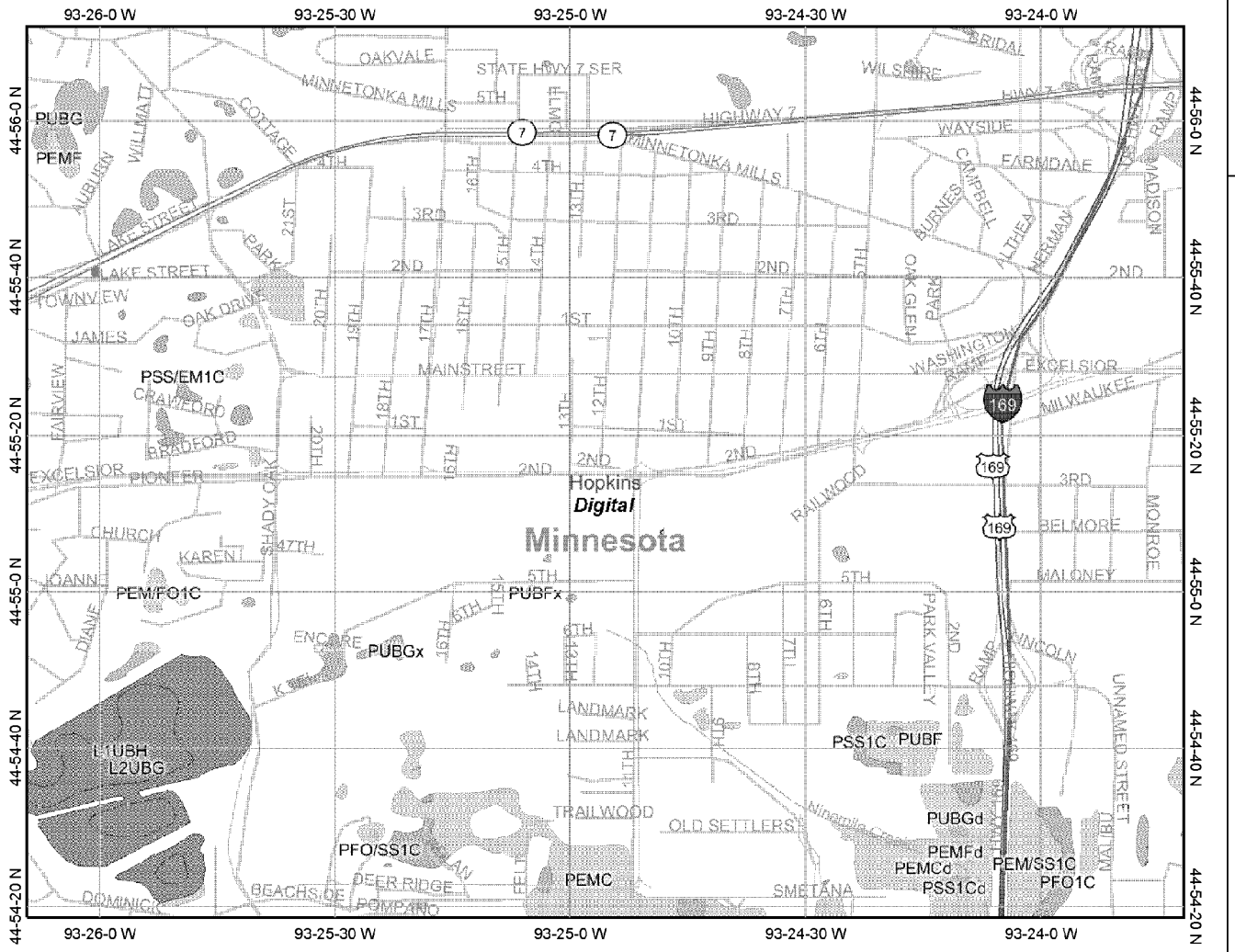
Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- HFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

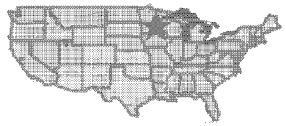
STATE_02822277

2222.1320

Hopkins Wetland Map



Map center: 44° 55' 15" N, 93° 24' 55" W



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:24,537

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

2222.1321

STATE_02822278

Minnesota Unique Well No.
204559

County Hennepin
Quad Hopkins
Quad ID 104B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/24/1991
Update Date 09/11/1991
Received Date

Well Name ROY TARASCH

Township	Range	Dir	Section	Subsections	Elevation
117	22	W	23	CDAADC	955 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
138 ft.	138 ft.	

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 126 ft.	lbs./ft.	

Open Hole from 126 ft. to 138 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
12000 SUNRISE
MINNETONKA MN

Geological Material	Color	Hardness	From	To
GRAVEL			0	126
LIMEROCK			126	138

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
0 ft. after hrs. pumping 50 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 465858 **Y:** 4974506

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Rogers Well Co. 27014
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Platteville
Last Strat Platteville
Aquifer Platteville
Depth to Bedrock 126 ft.

STATE_02822279

2222.1322

County Well Index Online Report	204559	Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
204568

County Hennepin
Quad Hopkins
Quad ID 104B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/24/1991
Update Date 06/03/2004
Received Date

Well Name WESTERN-OIL COMPANY
Township Range Dir Section Subsections Elevation 910 **ft.**
117 22 W 23 DCDDDB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
97 **ft.**	97 **ft.**	01/00/1960

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Commercial

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 91 ft.	lbs./ft.	

Open Hole from 91 ft. to 97 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
MINNETONKA MN

Geological Material	Color	Hardness	From	To
SILT			0	5
SANDY MUD	BLACK		5	6
SANDY MUD	GRAY		6	88
SAND	GRAY		88	90
LIMESTONE	GRAY		90	97

Static Water Level
17 ft. from Land surface Date Measured 01/00/1960

PUMPING LEVEL (below land surface)
17 ft. after hrs. pumping 25 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 466256 **Y:** 4974293

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0 Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Renner E.H. & Sons 27015
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Platteville
Last Strat Platteville
Aquifer Platteville
Depth to Bedrock 90 **ft.**

STATE_02822281

2222.1324

County Well Index Online Report	204568	Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
223878

County Hennepin
Quad Hopkins
Quad ID 104B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 08/24/1991
Update Date 09/11/1991
Received Date

Well Name WALTER REINSTRA

Township	Range	Dir	Section	Subsections	Elevation
117	22	W	24	DCCBAD	924 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
64 ft.	64 ft.	07/24/1972

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 59 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	10	6	0 ft. and ft.

Well Address
101 8TH AV S
HOPKINS MN

Geological Material	Color	Hardness	From	To
SAND	BROWN		0	26
CLAY & GRAVEL	BROWN		26	41
WATER SAND	GRAY		41	64

Static Water Level
32 ft. from Land surface Date Measured 07/24/1972

PUMPING LEVEL (below land surface)
32 ft. after hrs. pumping 20 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Address verification
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 467633 **Y:** 4974387

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Dependable Well Co. 27143
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **223878** | Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
224060

County Hennepin
Quad Hopkins
Quad ID 104B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/24/1991
Update Date 09/11/1991
Received Date

Well Name
Township Range Dir Section Subsections Elevation 902 **ft.**
117 22 W 25 BBDDBC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
145 ft.	145 ft.	10/06/1973

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 140 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen **Make** **Type**
Diameter **Slot/Gauze** **Length** **Set Between**

Well Address
1315 5TH ST S
HOPKINS MN

Geological Material	Color	Hardness	From	To
GRAVEL & ROCK FILL			0	2
PEAT			2	25
GRAVEL & CLAY			25	130
LIMEROCK			130	132
COARSE GRAVEL			132	145

Static Water Level
5 ft. from Land surface Date Measured 10/06/1973

PUMPING LEVEL (below land surface)
5 ft. after hrs. pumping 35 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Address verification
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 467003 **Y:** 4973908

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Dependable Well Co. 27143
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **224060** | Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
224075

County Hennepin
Quad Hopkins
Quad ID 104B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 08/24/1991
Update Date 09/11/1991
Received Date

Well Name O. PORT

Township	Range	Dir	Section	Subsections	Elevation
117	22	W	23	DDCCBB	913 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
67 ft.	67 ft.	12/01/1958

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 ft.

Casing Diameter	Weight	Hole Diameter
4 in. to ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** EVERDUR **Type**

Diameter	Slot/Gauze	Length	Set Between
4	20	0	0 ft. and ft.

Well Address
169 SHADY OAK RD
HOPKINS MN

Geological Material	Color	Hardness	From	To
HARD STONES	BROWN		0	24
SAND	GRAY		24	66
SANDY CLAY			66	67

Static Water Level
42 ft. from Land surface Date Measured 12/01/1958

PUMPING LEVEL (below land surface)
44 ft. after hrs. pumping 16 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number
Verification Other, note in remarks
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 466316 **Y:** 4974303

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed
Manufacturer's name MYERS Model number SA 75 A4
__ HP 0.75 Volts
Length of drop Pipe 50 ft. Capacity 15 g.p.m
Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

First Bedrock
Last Strat Till
Aquifer Quat. Water Table Aquifer
Depth to Bedrock ft.

Well Contractor Certification
Renner E.H. & Sons 27015
License Business Name Lic. Or Reg. No. Name of Driller

STATE_02822285

2222.1328

County Well Index Online Report	224075	Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
227132

County Hennepin
Quad Hopkins
Quad ID 104B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/24/1991
Update Date 12/02/2004
Received Date

Well Name

Township Range Dir Section Subsections Elevation 900 **ft.**

Township	Range	Dir	Section	Subsections	Elevation Method
117	22	W	25	BCADDB	7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
363 **ft.**	363 **ft.**	06/06/1967

Drilling Method --

Drilling Fluid
--

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Commercial

Well Address
1202 5TH ST
HOPKINS MN

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/ Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
12 in. to 213 ft.	lbs./ft.	
10 in. to 257 ft.	lbs./ft.	

Open Hole from 257 ft. to 363 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
SAND	YELLOW		0	5
PEAT	BLACK		5	20
SAND	GRAY		20	30
SAND	BROWN		30	40
CLAY	BLUE		40	51
CLAY + STONES	BROWN		51	112
LIMEROCK	GRAY		112	116
SHALE, SOFT LIMEROCK	GRAY		116	120
SANDSTONE	GRAY		120	130
GRAVEL LIMEROCK	BROWN		130	153
ST. PETER SANDROCK	WHITE		153	183
SHALE	LIGHT		183	194
SHALE	RED		194	196
SHALE	GRAY		196	215
SANDROCK	WHITE	HARD	215	250
SHAKOPEE	PINK		250	363

Static Water Level
65 ft. from Land surface Date Measured 06/06/1967

PUMPING LEVEL (below land surface)
90 ft. after hrs. pumping 600 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
CASING: 12 TO 213; 10 TO 257.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number
Verification Information from owner
Date N/A

System *UTM - Nad83, Zone15, Meters* **X:** 467041 **Y:** 4973662

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed
Manufacturer's name JACUZZI Model number 10MSA5 BOWL
__ HP 40 Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Turbine Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Renner E.h. & Sons 02015
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock St.Peter
Last Strat Prairie Du Chien Group
Aquifer Prairie Du Chien Group
Depth to Bedrock 153 **ft.**

County Well Index Online Report | **227132** | Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
242112

County Hennepin
Quad Hopkins
Quad ID 104B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/24/1991
Update Date 10/11/1995
Received Date

Well Name THERMOTECH NO.1
Township Range Dir Section Subsections Elevation 900 **ft.**
117 22 W 25 BDBBBD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
380 **ft.**	380 **ft.**	08/29/1966

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Commercial

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
12 in. to 222 ft.	lbs./ft.	

Open Hole from 222 ft. to 380 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
1202 5TH ST S
HOPKINS MN

Geological Material	Color	Hardness	From	To
CLAY			0	115
GRAVEL BROKEN LIMESTONE			115	132
SOFT SANDSTONE			132	190
SHALE			190	214
HARD SANDSTONE			214	251
SHAKOPEE			251	370
JORDAN SANDSTONE			370	380

Static Water Level
64 ft. from Land surface Date Measured 08/29/1966

PUMPING LEVEL (below land surface)
79 ft. after hrs. pumping 550 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
GAMMA LOGGED + TV ON 7-20-88. SWL=120.6 FT. GAMMA LOG INDICATES
GAMMA LOGGED + TV ON 7-20-88. SWL=120.6 FT. GAMMA LOG INDICATES OPDC.
OPDC.

Grouting Information Well Grouted? ☐ Yes ☐ No

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Located Minnesota Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Information from owner **Date** N/A

System *UTM - Nad83, Zone15, Meters* **X:** 467138 **Y:** 4973769

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0 Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Borehole Geophysics Yes
First Bedrock St.Peter **Aquifer** Multiple
Last Strat Prairie Du Chien Group **Depth to Bedrock** 132 **ft.**

Well Contractor Certification
Renner E.h. & Sons 02015
License Business Name Lic. Or Reg. No. Name of Driller

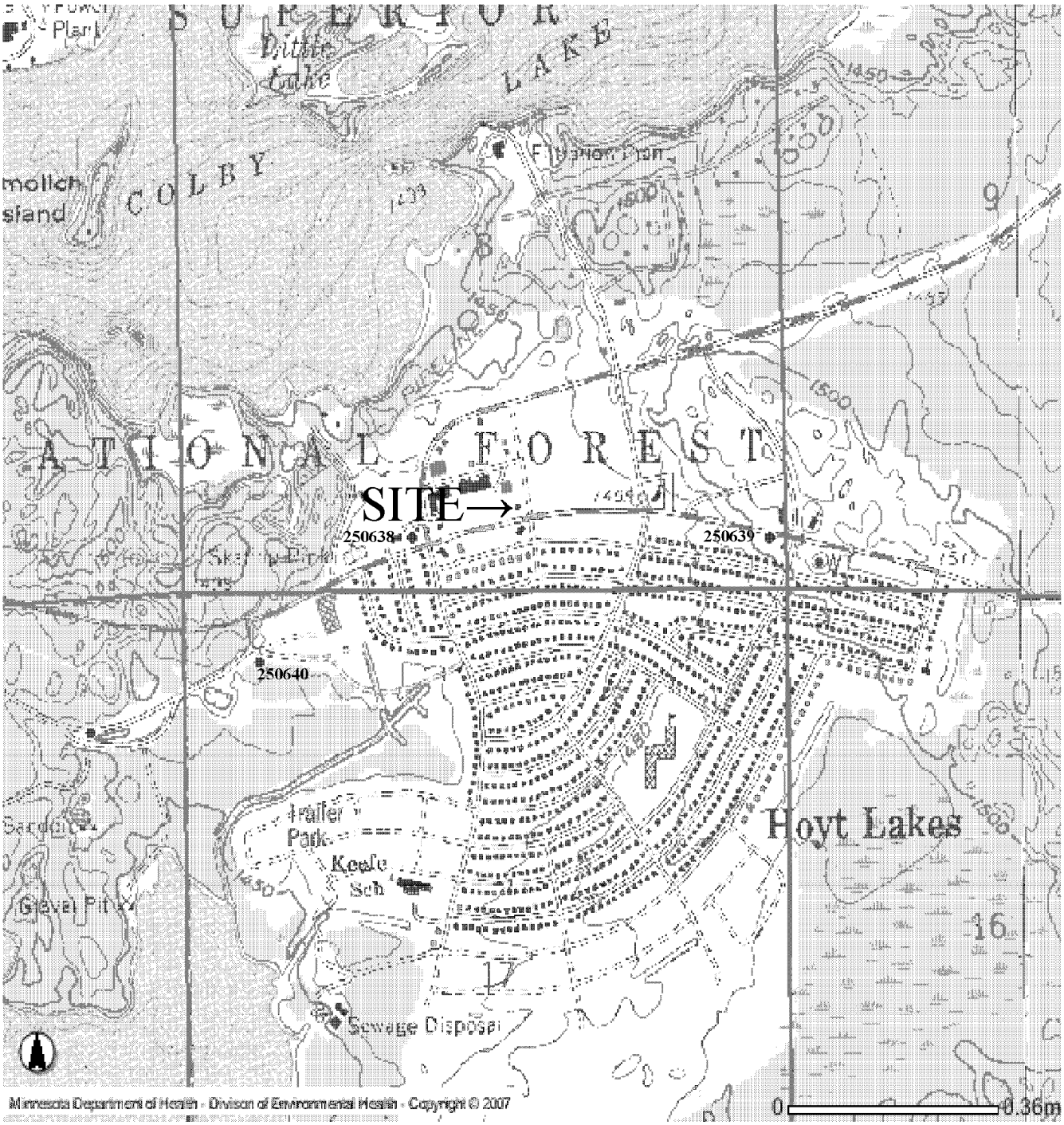
County Well Index Online Report | **242112** | Printed 6/27/2008 HE-01205-07

SITE SUMMARY

Site Name:	Hoyt Lakes
Fire Department:	Hoyt Lakes Fire Department City Hall Hoyt Lakes, MN 55750
Site Contact:	Steve Stoks, Fire Chief 218-225-2000

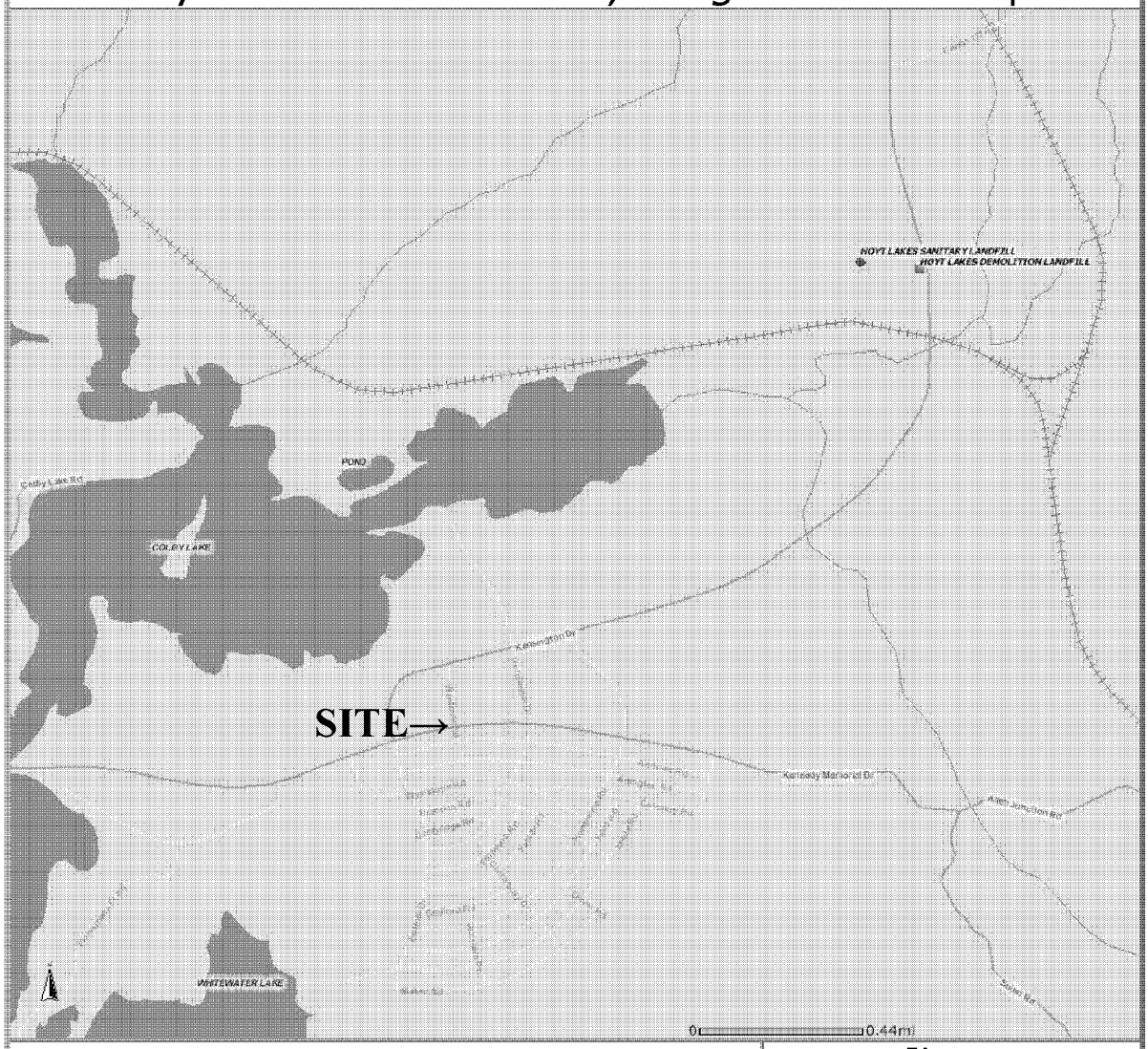
Training Location:	Triple ballfields or near Hoyt Lakes fire hall, 123-1/2 Kennedy Memorial Drive, Hoyt Lakes
Type of foam used in training:	Class A-B Hi Expansion: Jet-x Class A: Ansulite Class A: Silv-ex Other: Dawn dish soap
Foam training frequency:	Bi-Annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Ground
Annual foam use:	AR-AFFF: less than 5 gallons Class A-B Hi Expansion: 5 gallons Class A: 20 gallons
Nearest surface water:	Colby Lake less than 1/4 mile north
Nearest wetland:	Less than 1/4 mile north-northeast
Nearest water well:	Less than 1/4 mile west
Nearest Wellhead Protection Area:	More than 1 mile
SITE RANKING:	**11**

HOYT LAKES CWI Well Map



STATE_02822290

Hoyt Lakes *What's In My Neighborhood* Map



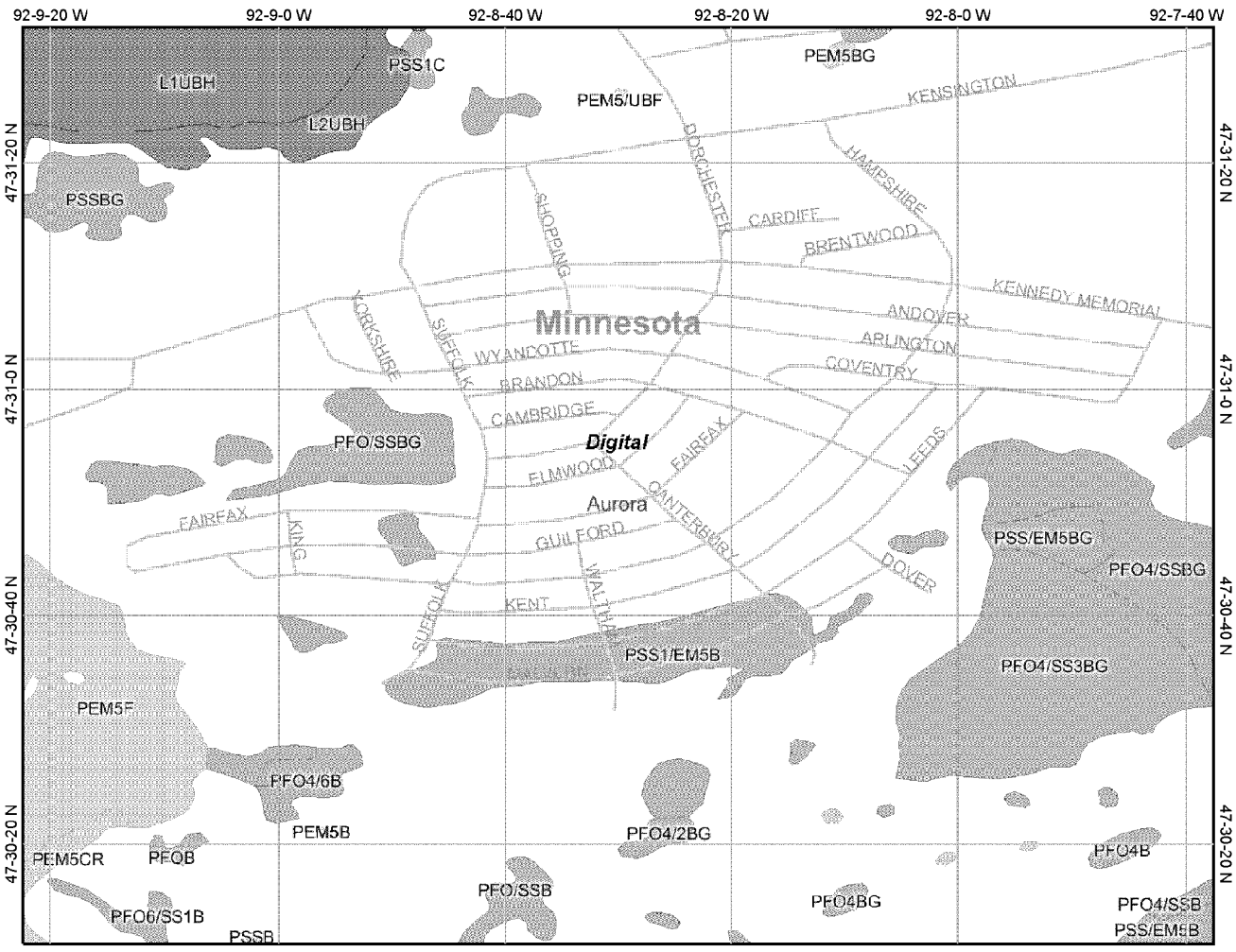
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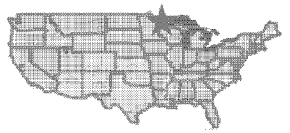
Minnesota Pollution Control Agency

Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NPL/NAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

Hoyt Lakes Wetland Map





Legend

Ohio_wet_scan
- 0
- 1
- Out of range

Interstate

Major Roads
- Other Road
- Interstate
- State highway
- US highway

Roads

Cities

USGS Quad Index 24K

Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan

NHD Streams

Counties 100K

States 100K

South America

North America

Scale: 1:17,459

Map center: 47° 30' 52" N, 92° 8' 30" W

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2222.1335

STATE_02822292

Minnesota Unique Well No.
250638

County St. Louis
Quad Aurora
Quad ID 318C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/22/1997
Update Date 04/17/2008
Received Date

Well Name 8-P1

Township	Range	Dir	Section	Subsections	Elevation
58	14	W	8	CDDBCB	1463 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
38 ft.	38 ft.	07/07/1958

Drilling Method --

Geological Material	Color	Hardness	From	To
GRAVELLY CLAY, SILT, SAND			0	5
SANDY TILL	BROWN		5	37
SLATE BEDROCK			37	38

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Test well

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter	Weight	Hole Diameter

Open Hole from ft. to ft.

Screen	Make	Type	Diameter	Slot/Gauze	Length	Set Between

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
CUTTINGS AT DNR-HIBBING.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located United States Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Information from owner
Date 11/21/2005
System *UTM - Nad83, Zone15, Meters*
X: 564200 **Y:** 5263232

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Cuttings Yes
First Bedrock
Last Strat
Aquifer
Depth to Bedrock 37 **ft.**

Well Contractor Certification
United States Geological Survey USGS
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report | **250638** | Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
250639

County St. Louis
Quad Aurora
Quad ID 318C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/22/1997
Update Date 11/21/2005
Received Date

Well Name 8-R1
Township Range Dir Section Subsections Elevation 1505 **ft.**

58	14	W	8	DDDADC	**Elevation Method**	7.5 minute topographic map (+/- 5 feet)

Well Depth	**Depth Completed**	**Date Well Completed**
12 **ft.**	12 **ft.**	07/07/1958

Drilling Method

Drilling Fluid

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Test well

Casing Type **Joint** **Drive Shoe?** ☐ Yes ☐ No **Above/ Below** **ft.**

Casing Diameter	**Weight**	**Hole Diameter**

Open Hole from ft. to ft.

Screen

Diameter	**Slot/Gauze**	**Length**	**Set Between**

Geological Material	**Color**	**Hardness**	**From**	**To**
SAND & GRAVEL			0	12

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
CUTTINGS AT DNR-HIBBING.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located United States Geological Survey
Method Digitization (Screen) - Map (1:24,000)

Unique Number
Verification Information from owner
Date 11/21/2005

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

System *UTM - Nad83, Zone15, Meters*
X: 565183 **Y:** 5263232

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Cuttings Yes
First Bedrock
Last Strat Sand & larger
Aquifer
Depth to Bedrock **ft.**

Well Contractor Certification
United States Geological Survey USGS
License Business Name Lic. Or Reg. No. Name of Driller

STATE_02822294

2222.1337

County Well Index Online Report	250639	Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
250640

County St. Louis
Quad Aurora
Quad ID 318C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/22/1997
Update Date 04/17/2008
Received Date

Well Name 17-D1
Township Range Dir Section Subsections Elevation 1458 **ft.**
58 14 W 17 BBBDDA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
39 **ft.**	39 **ft.**	07/08/1958

Drilling Method --

Geological Material	Color	Hardness	From	To
ROAD FILL			0	2
SAND & GRAVEL			2	7
CLAY TILL	RED/BRN		7	7
SAND & GRAVEL			7	38
SLATE?			38	39

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Test well

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter **Weight** **Hole Diameter**

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter **Slot/Gauze** **Length** **Set Between**

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
CUTTINGS AT DNR-HIBBING.

Located United States Geological Survey **Method** Digitization (Screen) - Map (1:24,000)

Unique Number
Verification Information from owner **Date** 11/21/2005

System *UTM - Nad83, Zone15, Meters* **X:** 563779 **Y:** 5262931

Grouting Information Well Grouted? ☐ Yes ☐ No

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Cuttings Yes
First Bedrock
Last Strat
Aquifer
Depth to Bedrock 38 **ft.**

Well Contractor Certification
United States Geological Survey USGS
License Business Name Lic. Or Reg. No. Name of Driller

STATE_02822296

2222.1339

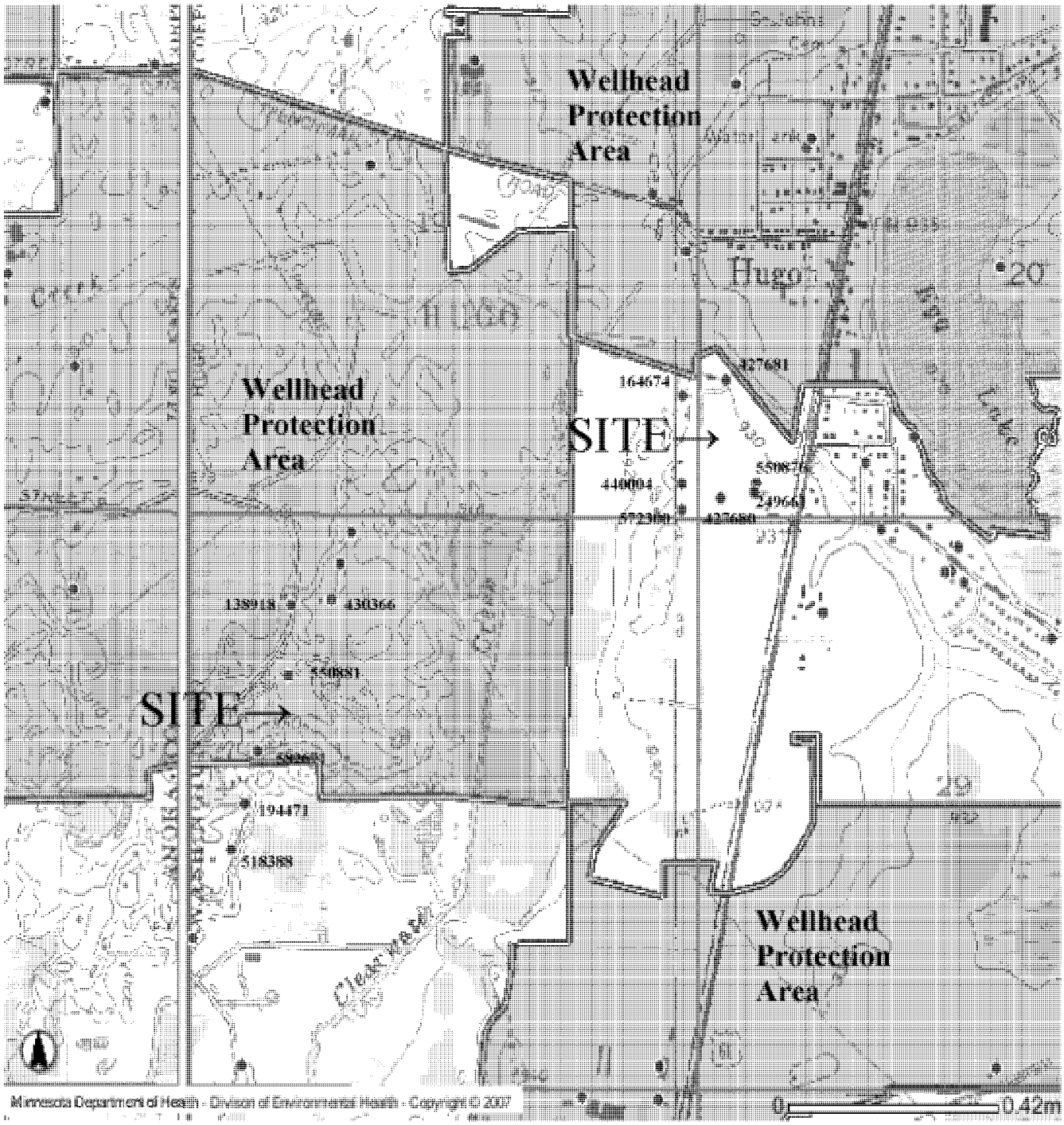
County Well Index Online Report	250640	Printed 6/27/2008 HE-01205-07

SITE SUMMARY

Site Name:	Hugo
Fire Department:	Hugo Fire Department 5323 140th Street N. Hugo, MN 55038
Site Contact:	Ron Gray, Fire Fighter 651-429-6366 hugfd@comcast.net

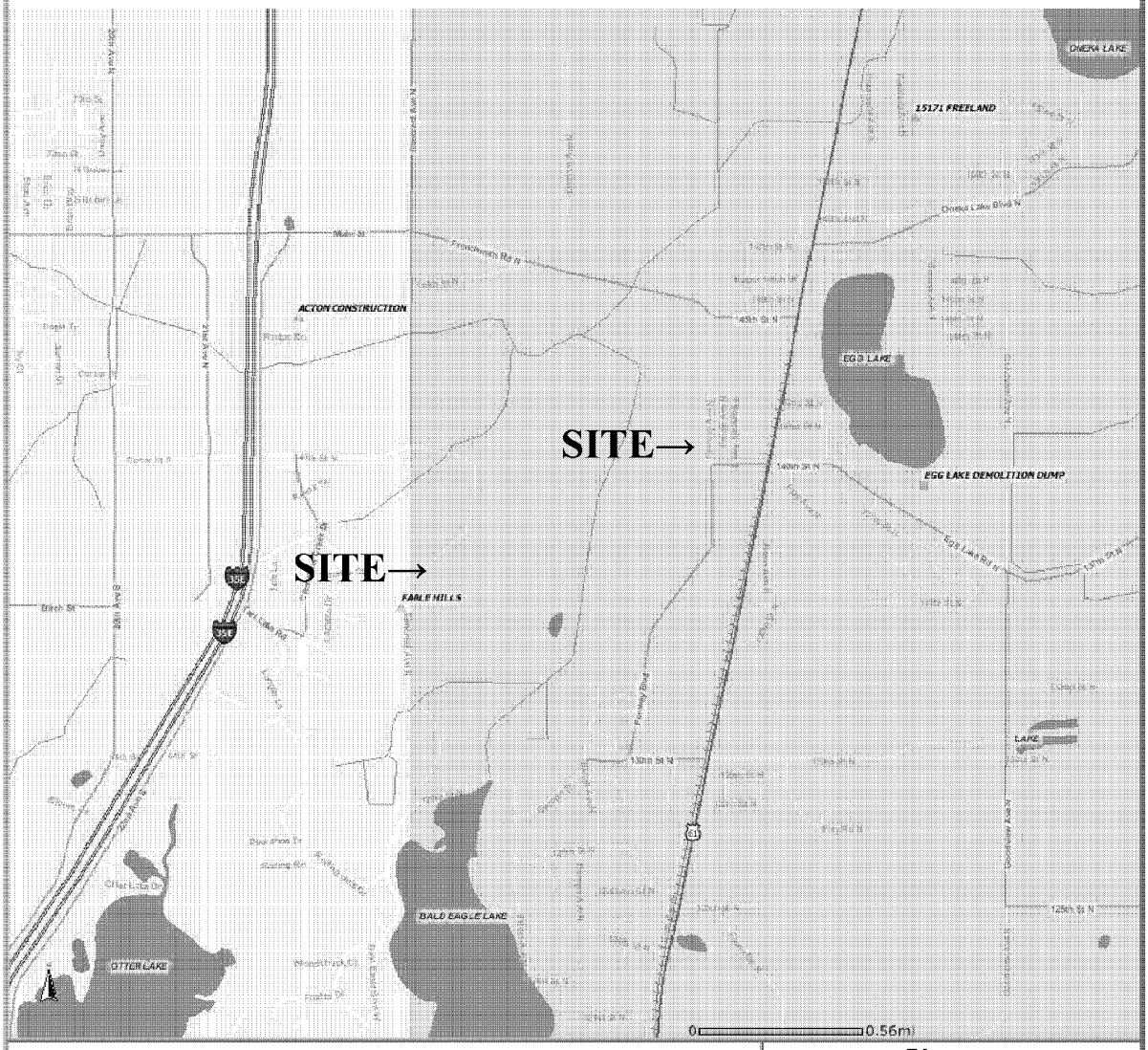
Training Location:	5223 140th St. N. and 4630 Fable Rd Ct. N., Hugo
Type of foam used in training:	AR-AFFF: Angus Class A: Angus
Foam training frequency:	Bi-Annually
Foam use per training event:	5 to 10 gallons
Spent foam destination:	Ground
Annual foam use:	AR-AFFF: 10 gallons Class A: 1 to 2 gallons
Nearest surface water:	Intermittent stream less than 1/4 mile east of 140th Street site; Clearwater Creek 1/4 to 1/2 mile east of Fable Road site.
Nearest wetland:	Less than 1/4 mile east of 140th Street site; less than 1/4 mile west of Fable Road site.
Karst Area:	Training site is located in a transition or covered karst area.
Nearest water well:	Less than 1/4 mile north and south of both training sites.
Nearest Wellhead Protection Area:	Less than 1/4 mile north of 140th Street site; Fable Road site located in Wellhead Protection Area.
SITE RANKING:	**20**

HUGO CWI Well Map



STATE_02822299

Hugo *What's In My Neighborhood* Map



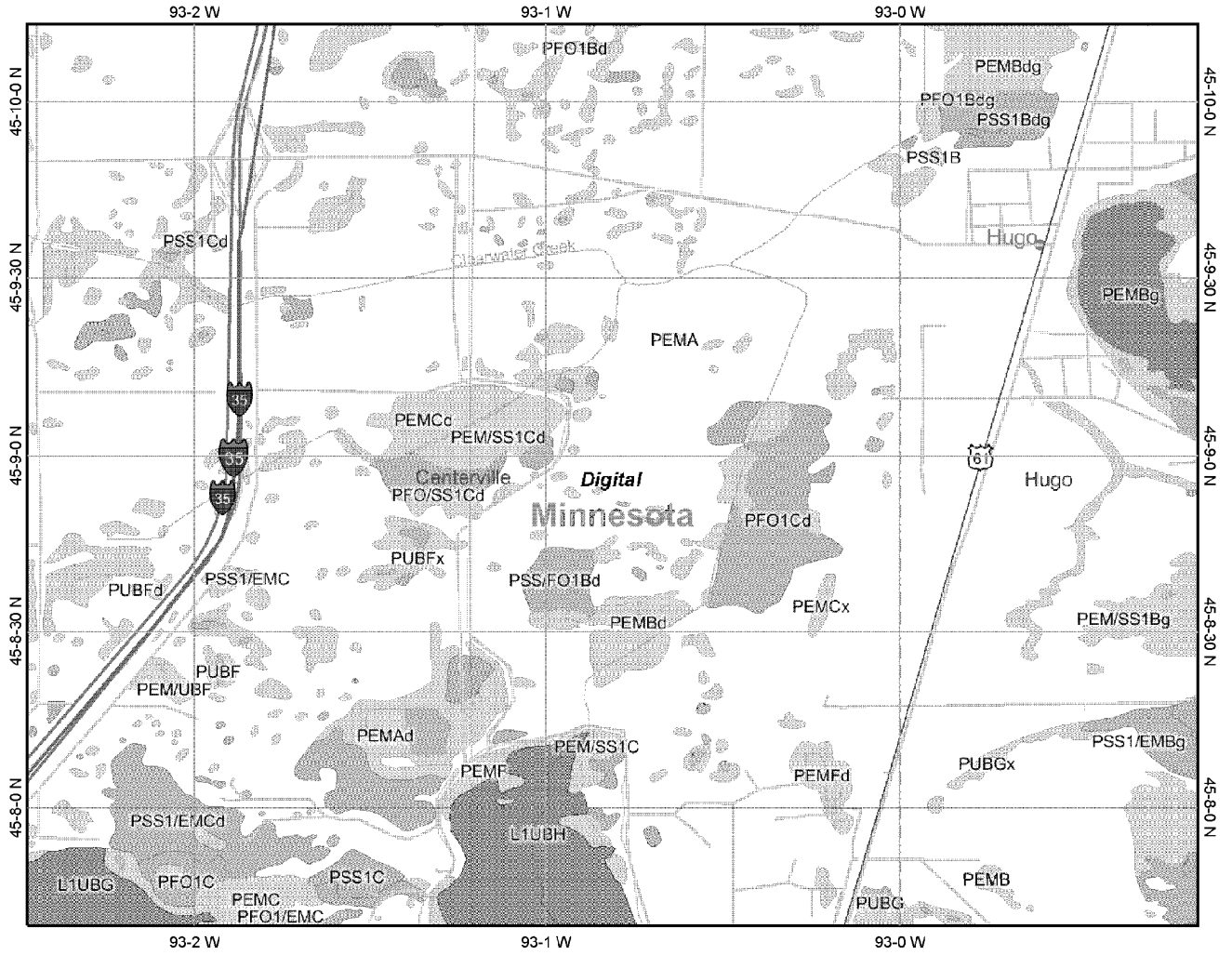
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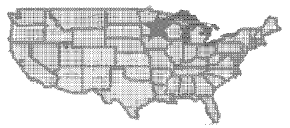
Minnesota Pollution Control Agency

Sites

- Delisted State Superfund
- ■ Permitted Solid Waste
- Unpermitted Dumps
- ■ NFRAP
- State Superfund
- ● CERCLIS
- ○ Federal Superfund
- ● State Closed Landfills
- Voluntary Investigation & Cleanup
- ▲ RCRA TSD Facilities
- RCRA Investigation & Cleanup
- ▲ State Assessment

Hugo Wetland Map





Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:33,043

Map center: 45° 8' 57" N, 93° 0' 49" W

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2222.1344

STATE_02822301

Minnesota Unique Well No.
138918

County Washington
Quad Centerville
Quad ID 119A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 09/21/1995
Update Date 05/09/1996
Received Date

Well Name WALLS, ROBERT

Township	Range	Dir	Section	Subsections	Elevation Method	Elevation
31	21	W	30	BBDABD	7.5 minute topographic map (+/- 5 feet)	921 ft.

Well Depth	Depth Completed	Date Well Completed
72 ft.	72 ft.	03/10/1978

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 1 ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 64 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	30	4	0 ft. and 72 ft
4	18	4	63 ft. and ft.

Well Address
13958 ELMCREST AV N
CENTERVILLE MN

Geological Material	Color	Hardness	From	To
CLAY	YELLOW	SOFT	0	34
SAND & GRAVEL		SOFT	34	72

Static Water Level
5 ft. from Land surface Date Measured 03/10/1978

PUMPING LEVEL (below land surface)
14 ft. after hrs. pumping 30 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☑ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Address verification
Date N/A
System *UTM - Nad83, Zone15, Meters* **X:** 498753 **Y:** 4999671

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 03/10/1978
Manufacturer's name JACUZZI Model number 1S4C HP 1 Volts 230
Length of drop Pipe 30 ft. Capacity 25 g.p.m
Type Submersible Material Galvanized

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification

License Business Name	Lic. Or Reg. No.	Name of Driller
Salverda Well Co	62006	SALVERDA, W.

First Bedrock
Last Strat Sand & larger
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **138918** | Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
164674

County Washington
Quad Hugo
Quad ID 118B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 07/06/1989
Update Date 05/09/1996
Received Date

Well Name JOHNSON, HARLEY
Township Range Dir Section Subsections Elevation 929 **ft.**
31 21 W 19 DDAAAC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
84 ft.	84 ft.	06/30/1981

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 1 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 79 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	30	4	79 ft. and 83 ft.

Well Address
14196 FENWAY AV
HUGO MN

Geological Material	Color	Hardness	From	To
FINE SAND			0	29
CLAY WITH GRAVEL	BLU/GRY		29	66
GRAVEL			66	68
MUDDY FINE SAND			68	78
GRAVEL			78	84

Static Water Level
7 ft. from Land surface Date Measured 06/30/1981

PUMPING LEVEL (below land surface)
11 ft. after hrs. pumping 25 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☑ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Address verification
Date N/A
System *UTM - Nad83, Zone15, Meters* **X:** 500014 **Y:** 5000260

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 06/30/1981
Manufacturer's name DEMING Model number 4AMN HP 0.75 Volts 230
Length of drop Pipe 42 ft. Capacity 25 g.p.m
Type Submersible Material Galvanized

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification

License Business Name	Lic. Or Reg. No.	Name of Driller
Salverda Well Co.	82006	SALVERDA, W.

First Bedrock
Last Strat Gravel (+larger)
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **164674** | Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
194471

County Washington
Quad Centerville
Quad ID 119A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 01/09/1990
Update Date 05/09/1996
Received Date

Well Name LACASSE, DAVE

Township	Range	Dir	Section	Subsections	Elevation
31	21	W	30	CBBAAA	952 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
148 ft.	148 ft.	08/30/1983

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 0 ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 127 ft.	lbs./ft.	

Open Hole from 127 ft. to 148 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
41 ft. from Land surface Date Measured 08/30/1983

PUMPING LEVEL (below land surface)
41 ft. after hrs. pumping 30 g.p.m.

Well Head Completion
Pitless adapter manufacturer BAKER Model SNAPPY
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
12487 ELMCREST AV
HUGO MN

Geological Material	Color	Hardness	From	To
SANCY CLAY & BOULDERS	RED		0	45
SANDY CLAY & SAND LENSES	RED		45	60
SAND	BROWN		60	65
SANDSTONE	WHITE	SOFT	65	100
SANDSTONE	WHITE	HARD	100	108
SHALE	BLUE		108	110
SANDSTONE	WHITE	SOFT	110	125
SANDSTONE	YEL/WHT	SOFT	125	130
SANDSTONE	GRAY	HARD	130	148

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☑ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number
Verification Information from owner
Date N/A

System *UTM - Nad83, Zone15, Meters* **X:** 498603 **Y:** 4999110

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 09/10/1983
Manufacturer's name STA RITE Model number __ HP 0.5 Volts 220
Length of drop Pipe 60 ft. Capacity 10 g.p.m
Type Submersible Material Plastic

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Barott Drilling 02303 BAROTT, B.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock St.Peter
Last Strat St.Peter
Aquifer St.Peter
Depth to Bedrock 65 ft.

County Well Index Online Report

194471

Printed 6/27/2008
HE-01205-07

Minnesota Unique Well No.
249661

County Washington
Quad Hugo
Quad ID 118B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 05/18/1994
Update Date 05/06/2005
Received Date

Well Name LOWELL, BILL

Township	Range	Dir	Section	Subsections	Elevation	Elevation Method
31	21	W	20	CCCDAC	931 ft.	7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
110 ft.	110 ft.	

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 1 ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 100 ft.	lbs./ft.	

Open Hole from 100 ft. to 110 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
5444 140TH ST N
HUGO MN

Geological Material	Color	Hardness	From	To
GLACIAL DRIFT			0	100
NO RECORD			100	110

Static Water Level
10 ft. from Land surface Date Measured 05/06/1994

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer SNAPPY Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
DRILLER SAID WELL IS 110 FT. DEEP TV CAMERA SHOWED OPEN HOLE BELOW.
GAMMA LOGGED AND TV 5-6-1994.
IT IS ESTIMATED THE BEDROCK AT 100 FT. WOULD BE THE PRAIRIE DU CHIEN.
WELL SEALED BY 62028
ORIGINAL USE DO - DOMESTIC

Grouting Information Well Grouted? ☐ Yes ☐ No

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Information from owner
Date 05/28/2004
System *UTM - Nad83, Zone15, Meters*
X: 500244 **Y:** 4999987

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Borehole Geophysics Yes
First Bedrock Prairie Du Chien Group
Last Strat Prairie Du Chien Group
Aquifer Prairie Du Chien Group
Depth to Bedrock 100 ft.

Well Contractor Certification
Minnesota Geological Survey MGS
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report | **249661** | Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
427680

County Washington
Quad Hugo
Quad ID 118B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 01/09/1990
Update Date 05/09/1996
Received Date

Well Name BERNIER, TOM
Township Range Dir Section Subsections Elevation 932 **ft.**
31 21 W 20 CCCCAD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
126 **ft.**	126 **ft.**	04/17/1987

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 1 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 108 ft.	lbs./ft.	4 in. to 126 ft.

Open Hole from 108 ft. to 126 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
5326 140TH ST N
HUGO MN

Geological Material	Color	Hardness	From	To
SAND			0	15
CLAY			15	72
GRAVEL			72	91
SANDSTONE			91	101
LIMEROCK			101	126

Static Water Level
15 ft. from Land surface Date Measured 06/02/1987

PUMPING LEVEL (below land surface)
50 ft. after hrs. pumping 25 g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model 8PI4IUC1
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☑ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Address verification
Date N/A
System *UTM - Nad83, Zone15, Meters* **X:** 500135 **Y:** 4999971

Nearest Known Source of Contamination
55 feet South West direction type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 06/02/1987
Manufacturer's name RED JACKET Model number 50CNW0-CN9BC
HP 0.75 Volts
Length of drop Pipe 40 ft. Capacity g.p.m Type Submersible Material Steel (black or low carbon)

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Lauren McCullough Well Drilling 82443 MCCULLOUGH, L
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock St.Peter
Last Strat Prairie Du Chien Group
Aquifer Prairie Du Chien Group
Depth to Bedrock 91 **ft.**

County Well Index Online Report | **427680** | Printed 6/27/2008 IIE-01205-07

STATE_02822306

2222.1349

Minnesota Unique Well No.
427681

County Washington
Quad Hugo
Quad ID 118B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 01/09/1990
Update Date 05/09/1996
Received Date

Well Name KOSTACH, JOHN
Township Range Dir Section Subsections Elevation 930 ft.
31 21 W 20 CCBBAA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
126 ft.	126 ft.	06/15/1987

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 1 ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 106 ft.	lbs./ft.	4 in. to 126 ft.

Well Address
5342 142ND ST N
HUGO MN

Open Hole from 106 ft. to 126 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
SAND			0	42
CLAY			42	80
SAND			80	94
CLAY & SAND & ROCK			94	104
LIMEROCK			104	126

Static Water Level
30 ft. from Land surface Date Measured 06/15/1987

PUMPING LEVEL (below land surface)
0 ft. after hrs. pumping 0 g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model 8PL4IUCI
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☑ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Information from owner
Date N/A

System *UTM - Nad83, Zone15, Meters*
X: 500153 **Y:** 5000304

Nearest Known Source of Contamination
75 feet North East direction Septic tank/drain field type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 06/16/1987
Manufacturer's name RED JACKET Model number BVC751-7SCN1
HP 0.75 Volts
Length of drop Pipe 60 ft. Capacity g.p.m Type Submersible Material Plastic

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

First Bedrock Prairie Du Chien Group
Last Strat Prairie Du Chien Group
Aquifer Prairie Du Chien Group
Depth to Bedrock 104 ft.

Well Contractor Certification
Lauren McCullough Well Drilling 82443 MCCULLOUGH, L
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report

427681

Printed 6/27/2008
HE-01205-07

Minnesota Unique Well No.
430366

County Washington
Quad Centerville
Quad ID 119A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 01/09/1990
Update Date 05/09/1996
Received Date

Well Name LACASSE, CHARLES C.
Township Range Dir Section Subsections Elevation 937 **ft.**
31 21 W 30 BACBAC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
126 **ft.**	126 **ft.**	11/20/1986

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 1 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 105 ft.	lbs./ft.	

Well Address
13905 ELMCREST AV N
WHITE BEAR LAKE MN

Open Hole from 105 ft. to 126 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
CLAY & SAND			0	25
SAND			25	65
SANDROCK			65	105
ROCK			105	126

Static Water Level
30 ft. from Land surface Date Measured 11/20/1986

PUMPING LEVEL (below land surface)
100 ft. after hrs. pumping 30 g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model 8PL4IUCI
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☑ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Information from neighbor
Date N/A

System *UTM - Nad83, Zone15, Meters*
X: 498882 **Y:** 4999685

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 02/17/1987
Manufacturer's name RED JACKET Model number 50CNI-CN9BC
__ HP 0 Volts 230
Length of drop Pipe 60 ft. Capacity _g.p.m Type Submersible Material Plastic

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Lauren McCullough Well Drilling 82443 MCCULLOUGH, L
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock St.Peter
Last Strat Prairie Du Chien Group
Aquifer Prairie Du Chien Group
Depth to Bedrock 65 **ft.**

County Well Index Online Report | **430366** | Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
440004

County Washington
Quad Hugo
Quad ID 118B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 06/26/1990
Update Date 05/09/1996
Received Date

Well Name KOSTUCK, BRETT
Township Range Dir Section Subsections Elevation 931 **ft.**
31 21 W 19 DDDACD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
120 **ft.**	120 **ft.**	10/19/1987

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 1 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 93 ft.	lbs./ft.	4 in. to 120 ft.

Well Address
14134 FENWAY AV N
HUGO MN

Open Hole from 93 ft. to 120 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
SAND	BROWN	MEDIUM	0	24
CLAY	GRAY	SOFT	24	78
GRAVEL COARSE			78	84
SANDROCK	YELLOW	SOFT	84	93
LIMEROCK	YELLOW	HARD	93	120

Static Water Level
10 ft. from Land surface Date Measured 10/19/1987

PUMPING LEVEL (below land surface)
40 ft. after hrs. pumping 25 g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model 8PI4IUC1
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☑ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Address verification
Date N/A
System *UTM - Nad83, Zone15, Meters* **X:** 500010 **Y:** 5000012

Nearest Known Source of Contamination
90 feet E direction Septic tank/drain field type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 11/01/1987
Manufacturer's name RED JACKET Model number 75U1-12BC HP 0.75 Volts
Length of drop Pipe 40 ft. Capacity g.p.m Type Submersible Material Plastic

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Lauren McCullough Well Drilling 82443 MCCULLOUGH, L
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock St.Peter
Last Strat Prairie Du Chien Group
Aquifer Prairie Du Chien Group
Depth to Bedrock 84 **ft.**

County Well Index Online Report

440004

Printed 6/27/2008
HE-01205-07

STATE_02822309

2222.1352

Minnesota Unique Well No.
518388

County Washington
Quad Centerville
Quad ID 119A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 06/02/1993
Update Date 09/15/1997
Received Date

Well Name NICK MILLER CONTRACTING
Township Range Dir Section Subsections Elevation 955 **ft.**
31 21 W 30 CBBDAC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
138 **ft.**	138 **ft.**	01/14/1993

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 104 ft.	lbs./ft.	7 in. to 104 ft.

Open Hole from 104 ft. to 138 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
13455 ELMCREST AV N
HUGO MN 55038

Geological Material	Color	Hardness	From	To
CLAY & GRAVEL			0	85
SANDROCK		SOFT	85	104
SANDROCK			104	138

Static Water Level
45 ft. from Land surface Date Measured 01/14/1993

PUMPING LEVEL (below land surface)
80 ft. after hrs. pumping 20 g.p.m.

Well Head Completion
Pitless adapter manufacturer SNAPPY Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Cuttings from 0 to ft. 0

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Address verification
Date 05/28/2004
System *UTM - Nad83, Zone15, Meters*
X: 498560 **Y:** 4998979

Nearest Known Source of Contamination
90 feet S direction Septic tank/drain field type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 01/27/1993
Manufacturer's name MEYERS Model number S3N52
HP 0.5 Volts 230
Length of drop Pipe 80 ft. Capacity 10 g.p.m Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification

License Business Name	Lic. Or Reg. No.	Name of Driller
Mccullough & Sons	82054	BEAUVIAS, D.

First Bedrock St.Peter
Last Strat St.Peter
Aquifer St.Peter
Depth to Bedrock 85 **ft.**

County Well Index Online Report **518388** Printed 6/27/2008 IIE-01205-07

STATE_02822310

2222.1353

Minnesota Unique Well No.
550876

County Washington
Quad Hugo
Quad ID 118B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 06/27/1996
Update Date 03/11/2005
Received Date

Well Name LOWELL, BILL

Township	Range	Dir	Section	Subsections	Elevation
31	21	W	20	CCADBC	931 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
111 ft.	111 ft.	07/07/1994

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 102 ft.	11 lbs./ft.	6.75 in. to 102 ft.
		4 in. to 111 ft.

Open Hole from 102 ft. to 111 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
5444 140TH ST N
HUGO MN 55038

Geological Material	Color	Hardness	From	To
SAND	BROWN	SOFT	0	33
CLAY	GRAY	SOFT	33	99
ROCK	RED/YEL	HARD	99	111

Static Water Level
12 ft. from Land surface Date Measured 07/07/1994

PUMPING LEVEL (below land surface)
25 ft. after 1 hrs. pumping 20 g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model SNAPPY
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement from 10 to 30 ft. bags

Located Minnesota Geological Survey

Method Digitized - scale 1:24,000 or larger - Irregular section (Digitizing Table)

Unique Number Verification Tag on well

Date N/A

System *UTM - Nad83, Zone15, Meters*

X: 500250 **Y:** 5000013

Nearest Known Source of Contamination
50 feet S direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

2222.1354

STATE_02822311

		Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No
		Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No
		Well Contractor Certification
First Bedrock Prairie Du Chien Group **Last Strat** Prairie Du Chien Group	**Aquifer** Prairie Du Chien Group **Depth to Bedrock** 99 **ft.**	Zuercher Well Co. 62028 ZUERCHER, A. License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	**550876**	Printed 6/27/2008 HE-01205-07

2222.1355

STATE_02822312

Minnesota Unique Well No.
550881

County Washington
Quad Centerville
Quad ID 119A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 06/27/1996
Update Date 03/11/2005
Received Date

Well Name THOMPSON, DENNIS

Township	Range	Dir	Section	Subsections	Elevation
31	21	W	30	BCAACB	938 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
64 ft.	64 ft.	07/20/1994

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 64 ft.	lbs./ft.	8 in. to 30 ft.
		6 in. to 64 ft.

Open Hole from ft. to ft.

Screen YES **Make** **Type** slotted pipe

Diameter	Slot/Gauze	Length	Set Between
4	10	10	54 ft. and 64 ft.

Well Address
13755 ELMCREST AV
HUGO MN 55038

Geological Material	Color	Hardness	From	To
SAND & CLAY	BROWN	SOFT	0	50
GRAVEL	BROWN	SOFT	50	64

Static Water Level
30 ft. from Land surface Date Measured 07/20/1994

PUMPING LEVEL (below land surface)
36 ft. after 1 hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model SNAPPY
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement from 10 to 30 ft. 7 bags
Grout Material: Bentonite from to ft.

Located Minnesota Geological Survey **Method** Digitization (Screen) - Map (1:24,000)
Unique Number Verification Tag on well **Date** 05/28/2004
System *UTM - Nad83, Zone15, Meters* **X:** 498743 **Y:** 4999471

Nearest Known Source of Contamination
75 feet W direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number IIP Volts
Length of drop Pipe ft. Capacity g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Zuercher Well Co. 62028 ZUERCHER, A.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Gravel (+larger)-brown
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report **550881** Printed 6/27/2008 HE-01205-07

STATE_02822313

2222.1356

Minnesota Unique Well No.
572300

County Washington
Quad Hugo
Quad ID 118B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 01/31/1997
Update Date 01/31/2007
Received Date

Well Name SWENSON, JACK
Township Range Dir Section Subsections Elevation 935 **ft.**
31 21 W 19 DDDDCA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
84 **ft.**	84 **ft.**	08/28/1996

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** Glued **Drive Shoe?** ☐ Yes ☑ No **Above/ Below ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 74 ft.	2.13 lbs./ft.	6 in. to 84 ft.

Open Hole from ft. to ft.

Screen YES **Make** MONOFLEX **Type** slotted pipe

Diameter	Slot/Gauze	Length	Set Between
4	12	10	74 ft. and 84 ft.

Static Water Level
15 ft. from Land surface Date Measured 08/28/1996

PUMPING LEVEL (below land surface)
25 ft. after 2 hrs. pumping 40 g.p.m.

Well Head Completion
Pitless adapter manufacturer BAKER Model SNAPPY
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
14104 FENWAY AV N
HUGO MN 55038

Geological Material	Color	Hardness	From	To
MEDIUM SAND	BROWN	SOFT	0	22
CLAY	BROWN	HARD	22	60
COARSE SAND	BROWN	SOFT	60	84

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: High solids bentonite from to 30 ft. 1 bags

Located Minnesota Department of Health **Method** GPS SA On (averaged)
Unique Number Verification N/A **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 500010 **Y:** 4999938

Nearest Known Source of Contamination
80 feet North West direction Septic tank/drain field type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
Martin Lake Garage 02633 HAGLE, R.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-brown
Aquifer Qual. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report **572300** Printed 6/27/2008 HE-01205-07

STATE_02822314

2222.1357

Minnesota Unique Well No.
582671

County Washington
Quad Centerville
Quad ID 119A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 09/26/1996
Update Date 09/15/1997
Received Date

Well Name GRAFF, TOM

Township	Range	Dir	Section	Subsections	Elevation
31	21	W	30	BCDBCA	960 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
201 ft.	201 ft.	05/22/1996

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 112 ft.	lbs./ft.	8 in. to 30 ft.
		6 in. to 112 ft.

Open Hole from 112 ft. to 201 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
13615 ELMCREST AV N
HUGO MN 55038

Geological Material	Color	Hardness	From	To
CLAY			0	45
GRAVEL			45	70
CLAY			70	109
SHALE ROCK			109	201

Static Water Level
60 ft. from Land surface Date Measured 05/22/1996

PUMPING LEVEL (below land surface)
80 ft. after hrs. pumping 30 g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model 8PL410
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Bentonite from 6 to 36 ft. 2 bags

Located Minnesota Geological Survey **Method** Digitization (Screen) - Map (1:24,000)
Unique Number Verification Tag on well **Date** 05/28/2004
System *UTM - Nad83, Zone15, Meters* **X:** 498643 **Y:** 4999258

Nearest Known Source of Contamination
65 feet South East direction Septic tank/drain field type
Well disinfected upon completion? ☐ Yes ☐ No

2222.1358

STATE_02822315

	Pump ☑ Not Installed Date Installed 05/23/1996 Manufacturer's name STA-RITE Model number 10SP4CO2J-02 HP 0.5 Volts Length of drop Pipe _ft. Capacity _g.p.m Type Submersible Material
	Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No
	Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No
First Bedrock St.Peter-Prairie Du Chien **Last Strat** St.Peter-Prairie Du Chien **Aquifer** Multiple **Depth to Bedrock** 109 **ft.**	**Well Contractor Certification** Lauren McCullough Well Drilling 82443 OTTEN, D. License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	**582671** Printed 6/27/2008 HE-01205-07

2222.1359

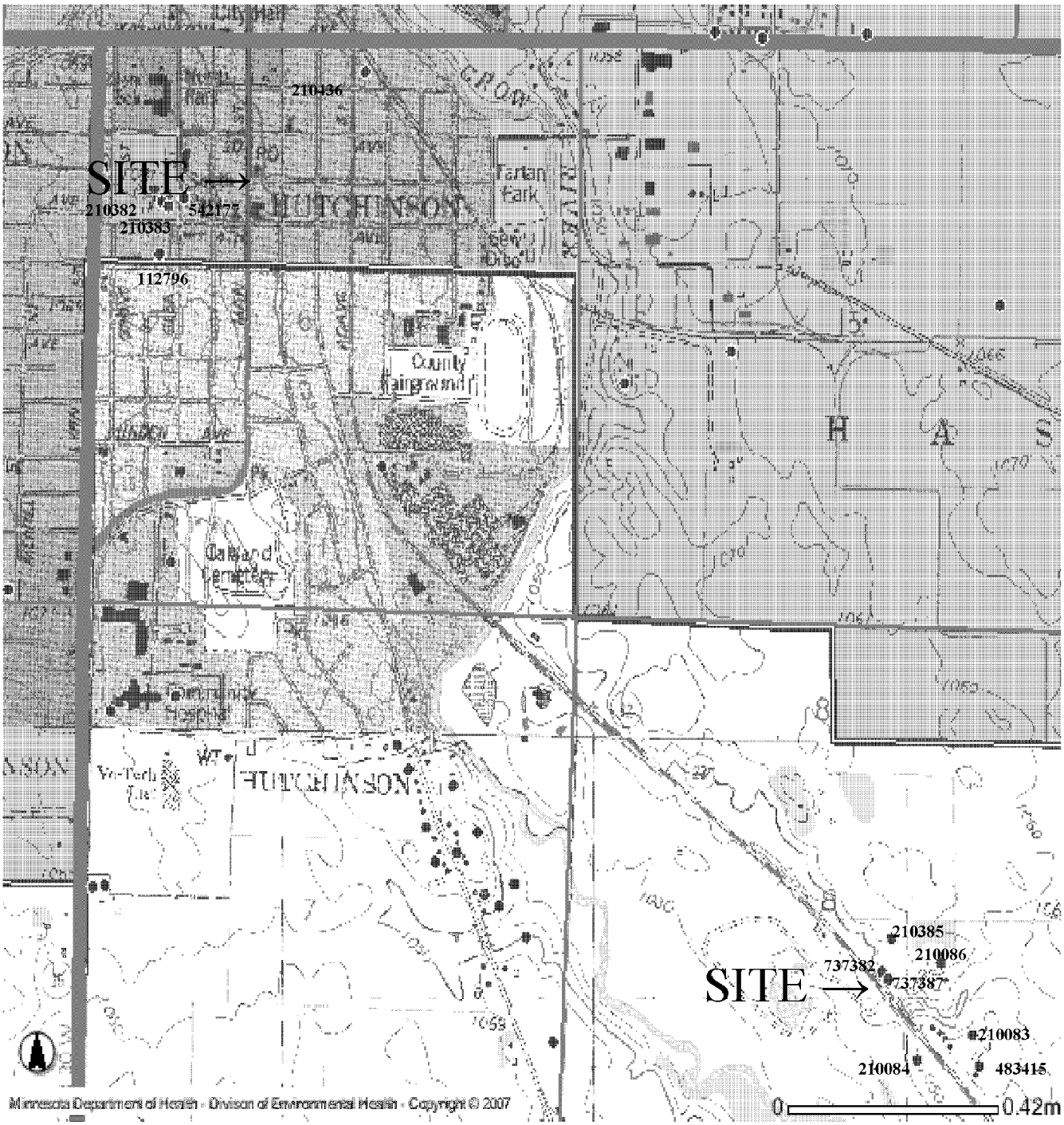
STATE_02822316

SITE SUMMARY

Site Name:	Hutchinson
Fire Department:	Hutchinson Fire Department 205 3rd Ave. SE Hutchinson, MN 55350
Site Contact:	James Popp, Battalion Chief 320-234-5653 jpopp@ci.hutchinson.mn.us

Training Location:	205 3rd Av. SE and 1300 Adams St. SE, Hutchinson
Type of foam used in training:	AFFF: 3M Light Water, historic use AR-AFFF: 3M Light Water, historic use Class A: Ansul Silv-ex, current use
Foam training frequency:	Quarterly
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Ground, storm sewer
Annual foam use:	AFFF: less than 10 gallons, historic use AR-AFFF: less than 10 gallons, historic use Class A: 10 gallons, current use
Nearest surface water:	Crow River approximately 1/2 mile northeast of 3rd Avenue site; unidentified pond less than 1/4 mile west of Adams Street site.
Nearest wetland:	Approximately 1/2 mile northeast of 3rd Avenue site; 1/4 to 1/2 mile southwest of Adams Street site.
Nearest water well:	Less than 1/4 mile southwest of 3rd Avenue site; less than 1/4 mile east of Adams Street site.
Nearest Wellhead Protection Area:	3rd Avenue site located in Wellhead Protection area; 1/4 to 1/3 mile north of Adams Street site.
SITE RANKING:	**26**

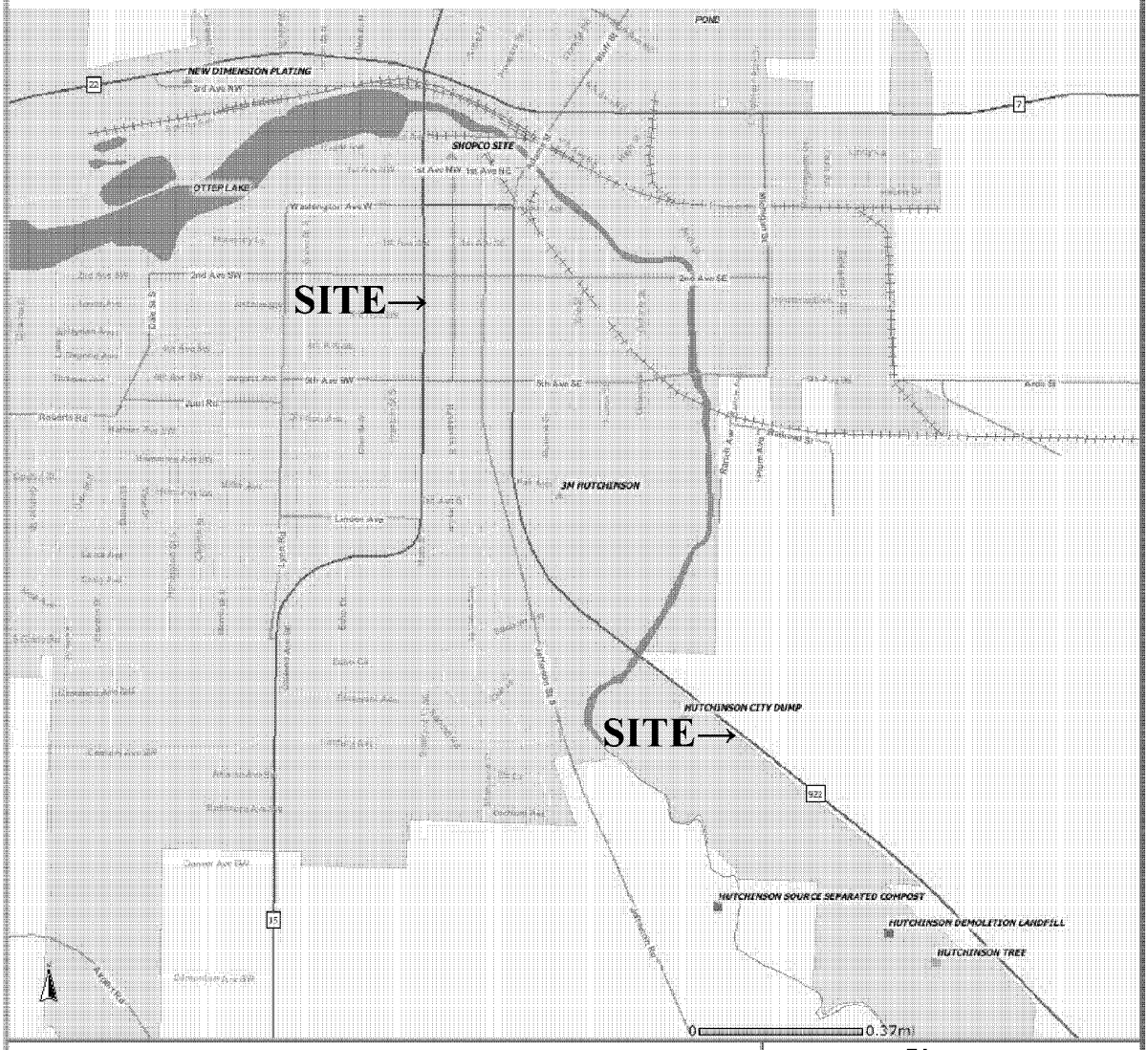
HUTCHINSON CWI Well Map



STATE_02822318

2222.1361

Hutchinson *What's In My Neighborhood* Map



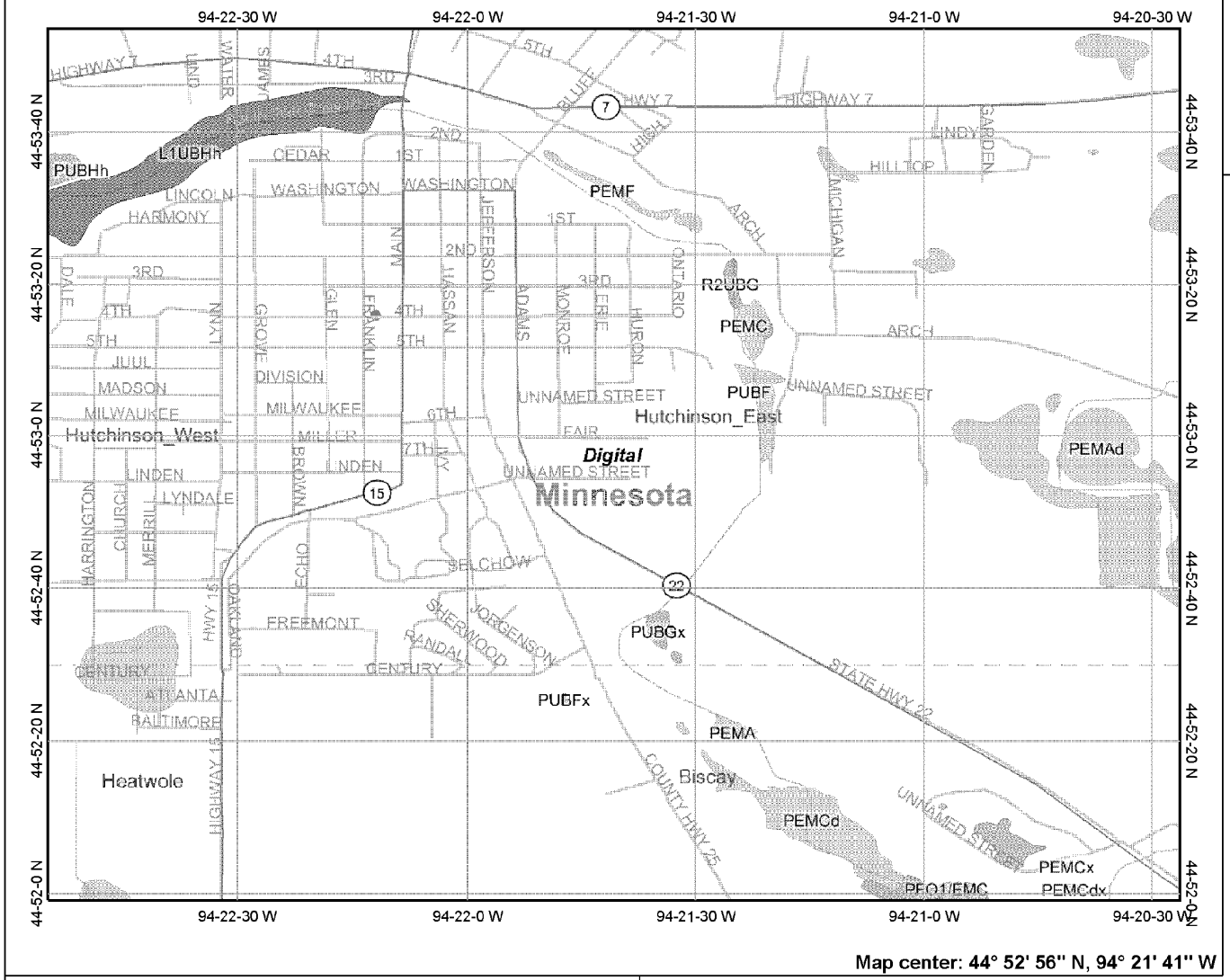
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Minnesota Pollution Control Agency

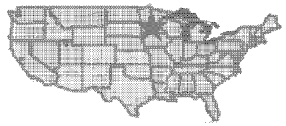
Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

Hutchinson Wetland Map



Map center: 44° 52' 56" N, 94° 21' 41" W



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:24,719

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2222.1363

STATE_02822320

Minnesota Unique Well No.
112796

County McLeod
Quad Hutchinson East
Quad ID 108A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/11/1988
Update Date 01/06/2006
Received Date

Well Name BETKER, MARK
Township Range Dir Section Subsections Elevation 1070 **ft.**
116 29 W 6 BCDBBA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
114 **ft.**	114 **ft.**	11/13/1975

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 2 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 111 ft.	11 lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOIINSON 304 **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	12	3.5	111 ft. and 114 ft.

Well Address
7 HY E
HUTCHINSON MN 55350

Geological Material	Color	Hardness	From	To
SOIL	BLACK		0	1
CLAY	YELLOW	HARD	1	13
CLAY	GRAY	SOFT	13	109
SAND	BROWN		109	114

Static Water Level
28 ft. from Land surface Date Measured 11/13/1975

PUMPING LEVEL (below land surface)
100 ft. after 3 hrs. pumping 10 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Bentonite from 0 to 50 ft. 0.33 yrds.
Grout Material: Cuttings from to ft.

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 391594 **Y:** 4971301

Nearest Known Source of Contamination
50 feet N direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☑ Not Installed Date Installed 12/26/1975
Manufacturer's name FLINT & WALLING Model number 5BA8
HP 0.5 Volts 230
Length of drop Pipe 100 ft. Capacity 10 g.p.m
Type Submersible Material Galvanized

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Heil Well Co. 43085 HIEL, R.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-brown
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock **ft.**

County Well Index Online Report | **112796** | Printed 6/27/2008 HE-01205-07

STATE_02822321

2222.1364

Minnesota Unique Well No.
210083

County McLeod
Quad Biscay
Quad ID 108D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/11/1988
Update Date 01/06/2006
Received Date

Well Name PESSEK, HENRY
Township Range Dir Section Subsections Elevation 1065 **ft.**
116 29 W 8 DADCBB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
99 ft.	99 ft.	12/01/1956

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 96 ft.	lbs./ft.	

Well Address
RR 2
HUTCHINSON MN 55350

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	50	3	96 ft. and 99 ft.

Geological Material	Color	Hardness	From	To
TOP SOIL	BLACK		0	3
CLAY	YELLOW		3	20
CLAY	BLUE		20	80
SAND CLAY			80	96
SAND			96	99

Static Water Level
36 ft. from Land surface Date Measured 12/01/1956

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer RED JACKET Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 394197 **Y:** 4969111

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 12/01/1956
Manufacturer's name MYERS Model number SA50A4 HP 0.5 Volts 230
Length of drop Pipe 72 ft. Capacity _g.p.m
Type Submersible Material Galvanized

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Fredericksons Inc. 43099 SYVERTSON, R.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **210083** | Printed 6/27/2008 HE-01205-07

STATE_02822322

2222.1365

Minnesota Unique Well No.
210084

County McLeod
Quad Biscay
Quad ID 108D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/11/1988
Update Date 01/06/2006
Received Date

Well Name OLIVA, WAYNE
Township Range Dir Section Subsections Elevation 1050 **ft.**
116 29 W 8 DACCCD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
187 **ft.**	187 **ft.**	09/28/1962

Drilling Method --

Well Address
RR 2
HUTCHINSON MN 55350

Geological Material	Color	Hardness	From	To
TOP SOIL	BLACK		0	1
CLAY	YELLOW		1	23
CLAY STICKY	BLUE		23	80
CLAY LENSED WITH SAND	BLUE		80	110
CLAY	BLUE		110	178
SAND	VARIED		178	187
CLAY	BLUE		187	187

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
5.5 in. to 184 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	25	3	184 ft. and 187 ft.

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer DUPLEX Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 394019 **Y:** 4969041

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 10/18/1962
Manufacturer's name BERKELEY Model number S-5
__ HP 0.5 Volts 115
Length of drop Pipe 30 ft. Capacity _g.p.m Type Jet Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Fredericksons Inc. 43099 PULKRABEK, C.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Clay-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report **210084** Printed 6/27/2008 HE-01205-07

STATE_02822323

2222.1366

Minnesota Unique Well No.
210086

County McLeod
Quad Biscay
Quad ID 108D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/11/1988
Update Date 01/06/2006
Received Date

Well Name TAYLOR, EARL
Township Range Dir Section Subsections Elevation 1070 **ft.**
116 29 W 8 DABDBB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
185 ft.	185 ft.	08/12/1957

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 182 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	35	3	0 ft. and ft.

Well Address
RR 2
HUTCHINSON MN 55350

Geological Material	Color	Hardness	From	To
CLAY FILL	YELLOW		0	15
CLAY	YELLOW		15	30
CLAY	BLUE		30	97
CLAY	GRAY		97	110
SAND	GRAY		110	112
CLAY (SANDY)	GRAY		112	176
SAND	GRAY		176	185

Static Water Level
21 ft. from Land surface Date Measured 08/12/1957

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer RED JACKET Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 394095 **Y:** 4969313

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 05/22/1970
Manufacturer's name G Model number 4AM15 HP 0.75 Volts 230
Length of drop Pipe 36 ft. Capacity _g.p.m Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Fredericksons Inc. 43099 MAYER, B.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report **210086** Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
210382

County McLeod
Quad Hutchinson East
Quad ID 108A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/11/1988
Update Date 01/05/2006
Received Date

Well Name CITY OF HUTCHINSON
Township Range Dir Section Subsections Elevation 1080 **ft.**
116 29 W 6 BCABDB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
370 ft.	370 ft.	

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Abandoned **Status** Inactive

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
12 in. to 320 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** LAYNE EVERDUR **Type**

Diameter	Slot/Gauze	Length	Set Between
8		40	320 ft. and 360 ft.

Geological Material	Color	Hardness	From	To
SANDY CLAY			0	8
CLAY		HARD	8	65
CLAY GRAVEL			65	78
HARDPAN			78	100
CLAY			100	116
HARDPAN			116	175
SANDY CLAY			175	200
HARDPAN			200	227
CLAY BOULDERS			227	238
HARDPAN			238	254
MUDDY SAND			254	284
FINE SAND			284	320
SAND			320	335
SAND GRAVEL			335	345
SAND			345	370

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
SCREEN TYPE: "SHUTTER SCREEN." USED 8" (PLAIN) EVERDUR PIPE BELOW SCREEN.
ORIGINALLY DRILLED TO 390', THEN BACKFILLED TO 370' AND GRAVEL-PACKED TO TOP OF
SCREEN WITH 7 YDS. OF FILLER GRAVEL. CASING COMPLETED ABOVE GRADE.

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: from 0 to 254 ft.

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number
Verification Information from owner
Date N/A
System *UTM - Nad83, Zone15, Meters* **X:** 391603 **Y:** 4971446

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0 Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Minnesota Department of Health MDH
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **210382** | Printed 6/27/2008 IIE-01205-07

Minnesota Unique Well No.
210383

County McLeod
Quad Hutchinson East
Quad ID 108A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/11/1988
Update Date 01/05/2006
Received Date

Well Name HUTCHINSON 2
Township Range Dir Section Subsections Elevation 1075 **ft.**
116 29 W 6 BCABDC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
392 ft.	265 ft.	08/00/1954

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Abandoned **Status** Inactive

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter	Weight	Hole Diameter
12 in. to ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between
12	25		ft. and ft.
12	30		ft. and ft.
12	40		ft. and ft.

Static Water Level
33 ft. from Land surface Date Measured 08/00/1954

PUMPING LEVEL (below land surface)
81.41 ft. after 16 hrs. pumping 1000 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
300 GLEN ST S
HUTCHINSON MN 55350

Geological Material	Color	Hardness	From	To
TOPSOIL	BLACK		0	2
CLAY	YELLOW		2	25
CLAY & PEBBLES	BLUE		25	195
CLAY & COARSE GRAVEL	BLUE		195	203
CLAY & PEBBLES	GRAY		203	227
SAND & GRAVEL	GREEN		227	257
LENS OF SAND & GRAVEL	GRN/GRY		257	265
CLAY PLASTIC	GRN/RED		265	272
SAND & GRAVEL	GRN/GRY		272	291
CLAY & GRAVEL	GRAY		291	298
FINE SAND	GRAY		298	322
SAND & GRAVEL	GRAY		322	362
FINE SAND	GRAY		362	392

REMARKS
NOTE ON LOCATION FROM DNR WELL LOG: SOUTH PARK, S-1/2 OF CITY. CONSTRUCTION.
METHOD: DRILLED (DETAILS UNSPECIFIED). ORIGINAL LOG FROM FREDERICKSON'S WELL.
CO. SHOWS WELL WAS ORIGINALLY DRILLED TO 392'; APPARENTLY BACKFILLED TO 261'.

Grouting Information Well Grouted? ☐ Yes ☐ No

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Located Minnesota Geological Survey **Method** Digitization (Screen) - Map (1:24,000)
Unique Number Verification Information from owner **Date** 08/02/2005
System *UTM - Nad83, Zone15, Meters* **X:** 391624 **Y:** 4971434

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Fredrickson's 08317
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock **ft.**

County Well Index Online Report | **210383** | Printed 6/27/2008 HE-01205-07

STATE_02822326

2222.1369

Minnesota Unique Well No.
210385

County McLeod
Quad Biscay
Quad ID 108D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/11/1988
Update Date 01/10/2006
Received Date

Well Name KOSECK, HERB
Township Range Dir Section Subsections Elevation 1085 **ft.**
116 29 W 8 DBAABA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
130 **ft.**	130 **ft.**	08/31/1961

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
3 in. to 127 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen **Make** **Type**
Diameter **Slot/Gauze** **Length** **Set Between**

Well Address
RR 2 MN
HUTCHINSON MN 55350

Geological Material	Color	Hardness	From	To
YELLOW CLAY FILL			0	6
YELLOW CLAY			6	35
BLUE CLAY			35	80
FINE SAND			80	81
BLUE CLAY			81	125
FINE SAND			125	130

Static Water Level
29 ft. from Land surface Date Measured 08/31/1961

PUMPING LEVEL (below land surface)
39 ft. after 2 hrs. pumping 25 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 393936 **Y:** 4969382

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed
Manufacturer's name Model number ___ HP 0.75 Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Jet Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Heil Well Co. 43085 HEIL, C.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **210385** | Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
210436

County McLeod
Quad Hutchinson East
Quad ID 108A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/11/1988
Update Date 01/05/2006
Received Date

Well Name JENSEN, ALVIN
Township Range Dir Section Subsections Elevation 1045 **ft.**
116 29 W 6 ABBBDA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
112 ft.	112 ft.	07/10/1967

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
3 in. to 109 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between
3	16	3	109 ft. and 112 ft.

Well Address
7 SH
HUTCHINSON MN 55350

Geological Material	Color	Hardness	From	To
FILL			0	3
CLAY	YELLOW		3	25
CLAY	BLUE		25	107
MEDIUM GRADE SAND			107	112

Static Water Level
26 ft. from Land surface Date Measured 07/10/1967

PUMPING LEVEL (below land surface)
36 ft. after 1 hrs. pumping 35 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 392254 **Y:** 4971811

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Heil Well Co. 43085 HEIL, C.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **210436** | Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
483415

County McLeod
Quad Biscay
Quad ID 108D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 02/10/1993
Update Date 01/10/2006
Received Date

Well Name ANDERSON, ROBERT
Township Range Dir Section Subsections Elevation 1068 **ft.**
116 29 W 8 DDBABB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
199 **ft.**	198 **ft.**	05/15/1992

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 194 ft.	lbs./ft.	8.75 in. to 198 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	18	4	194 ft. and 198 ft.

Static Water Level
32 ft. from Land surface Date Measured 05/15/1992

PUMPING LEVEL (below land surface)
42 ft. after hrs. pumping 100 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
1545 22 SH S
HUTCHINSON MN 55350

Geological Material	Color	Hardness	From	To
TOP SOIL	BROWN		0	5
SANDY CLAY	YELLOW		5	17
CLAY W/GRAVEL	YELLOW		17	23
SANDY CLAY W/GRAVEL	GRAY		23	27
SANDY CLAY W/STONES	GRAY		27	37
ROCK	VARIED		37	38
SANDY CLAY	GRAY		38	75
SANDY CLAY	GRAY		75	82
SAND	VARIED		82	87
SANDY CLAY	GRAY		87	118
DIRTY SAND	GRAY		118	120
SANDY CLAY	GRAY		120	188
SAND	GRAY		188	199

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement from 7 to 30 ft.

Located Minnesota Geological Survey **Method** Digitization (Screen) - Map (1:24,000)

Unique Number
Verification Information from owner **Date** 08/03/2005

System *UTM - Nad83, Zone15, Meters* **X:** 394217 **Y:** 4969024

Nearest Known Source of Contamination
50 feet N direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Ltp Enterprises 91353 NELSON, D.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report **483415** Printed 6/27/2008 HE-01205-07

STATE_02822329

2222.1372

Minnesota Unique Well No.
542177

County McLeod
Quad Hutchinson East
Quad ID 108A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/19/1995
Update Date 01/10/2006
Received Date

Well Name PRINCE OF PEACE SR. APARTMENTS
Township Range Dir Section Subsections Elevation 1072 **ft.**
116 29 W 6 BCABAD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
26 ft.	26 ft.	10/28/1994

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Elevator

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
16 in. to 26 ft.	62.58 lbs./ft.	

Open Hole from ft. to ft.

Screen **Make** **Type**
Diameter **Slot/Gauze** **Length** **Set Between**

Well Address
301 GLEN ST
HUTCHINSON MN 55350

Geological Material	Color	Hardness	From	To
SAND FINE	BROWN		0	12
CLAY	YELLOW	SOFT	12	26

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: from 24 to 26 ft.

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Address verification
Date 08/08/2005
System *UTM - Nad83, Zone15, Meters*
X: 391674 **Y:** 4971459

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Don Graves Drilling L0005
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Clay-yellow
Aquifer
Depth to Bedrock ft.

County Well Index Online Report **542177** Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
737382

County McLeod
Quad Biscay
Quad ID 108D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 03/29/2007
Update Date 10/05/2007
Received Date 01/23/2007

Well Name BUTE PROPERTIES, LLC

Township	Range	Dir	Section	Subsections	Elevation
116	29	W	8	DBBDDA	1061 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
181 ft.	176 ft.	09/13/2006

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** Glued **Drive Shoe?** ☐ Yes ☑ No **Above/ Below** ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 172 ft.	lbs./ft.	6.25 in. to 181 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	18	4	172 ft. and 176 ft.

Well Address
1467 ADAM ST SE
HUTCHINSON MN 55350

Geological Material	Color	Hardness	From	To
SANDY CLAY	YELLOW		0	11
SANDY CLAY	GRAY		11	171
SAND	GRAY		171	178
SANDY CLAY	GRAY		178	181

Static Water Level
20 ft. from Land surface Date Measured 09/13/2006

PUMPING LEVEL (below land surface)
46 ft. after hrs. pumping 50 g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model 6PS45BS4
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: High solids bentonite from 6 to 86 ft. 3 bags

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Address verification
Date 07/13/2007
System *UTM - Nad83, Zone15, Meters*
X: 393907 **Y:** 4969289

Nearest Known Source of Contamination
58 feet N direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 08/21/2006
Manufacturer's name AERMOTOR Model number S12-50
HP 0.5 Volts 115
Length of drop Pipe 63 ft. Capacity 12 g.p.m Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

First Bedrock
Last Strat Clay & sand-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

Well Contractor Certification
LTP Enterprises, Inc. 2157 GRIMM, G.
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report | **737382** | Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
737387

County McLeod
Quad Biscay
Quad ID 108D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 03/29/2007
Update Date 10/05/2007
Received Date 01/23/2007

Well Name RATII RACING

Township Range Dir Section Subsections Elevation 1061 **ft.**

116	29	W	8	DBACCB	**Elevation Method**	7.5 minute topographic map (+/- 5 feet)

Well Depth	**Depth Completed**	**Date Well Completed**
181 **ft.**	176 **ft.**	09/25/2006

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** Glued **Drive Shoe?** ☐ Yes ☑ No **Above/ Below ft.**

Casing Diameter	**Weight**	**Hole Diameter**
4 in. to 172 ft.	lbs./ft.	6.25 in. to 181 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	**Slot/Gauze**	**Length**	**Set Between**
4	18	4	172 ft. and 176 ft.

Static Water Level
20 ft. from Land surface Date Measured 09/25/2006

PUMPING LEVEL (below land surface)
46 ft. after hrs. pumping 50 g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model 6PS45BS4
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
ADAMS ST SE
HUTCHINSON MN

Geological Material	**Color**	**Hardness**	**From**	**To**
SANDY CLAY	BROWN		0	11
SANDY CLAY	GRAY		11	56
SANDY CLAY	BROWN		56	68
SANDY CLAY	GRAY		68	100
SAND	GRAY		100	102
SANDY CLAY	GRAY		102	171
SAND	GRAY		171	177
SANDY CLAY	GRAY		177	181

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: High solids bentonite from 6 to 95 ft. 3 bags

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Name on mailbox
Date 07/16/2007
System *UTM - Nad83, Zone15, Meters*
X: 393927 **Y:** 4969269

Nearest Known Source of Contamination
60 feet E direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 08/29/2006
Manufacturer's name AERMOTOR Model number 12-50
HP 0.5 Volts 115
Length of drop Pipe 63 ft. Capacity 12 g.p.m Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

First Bedrock
Last Strat Clay & sand-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

Well Contractor Certification
LTP Enterprises, Inc. 2157 GRIMM, G.
License Business Name Lic. Or Reg. No. Name of Driller

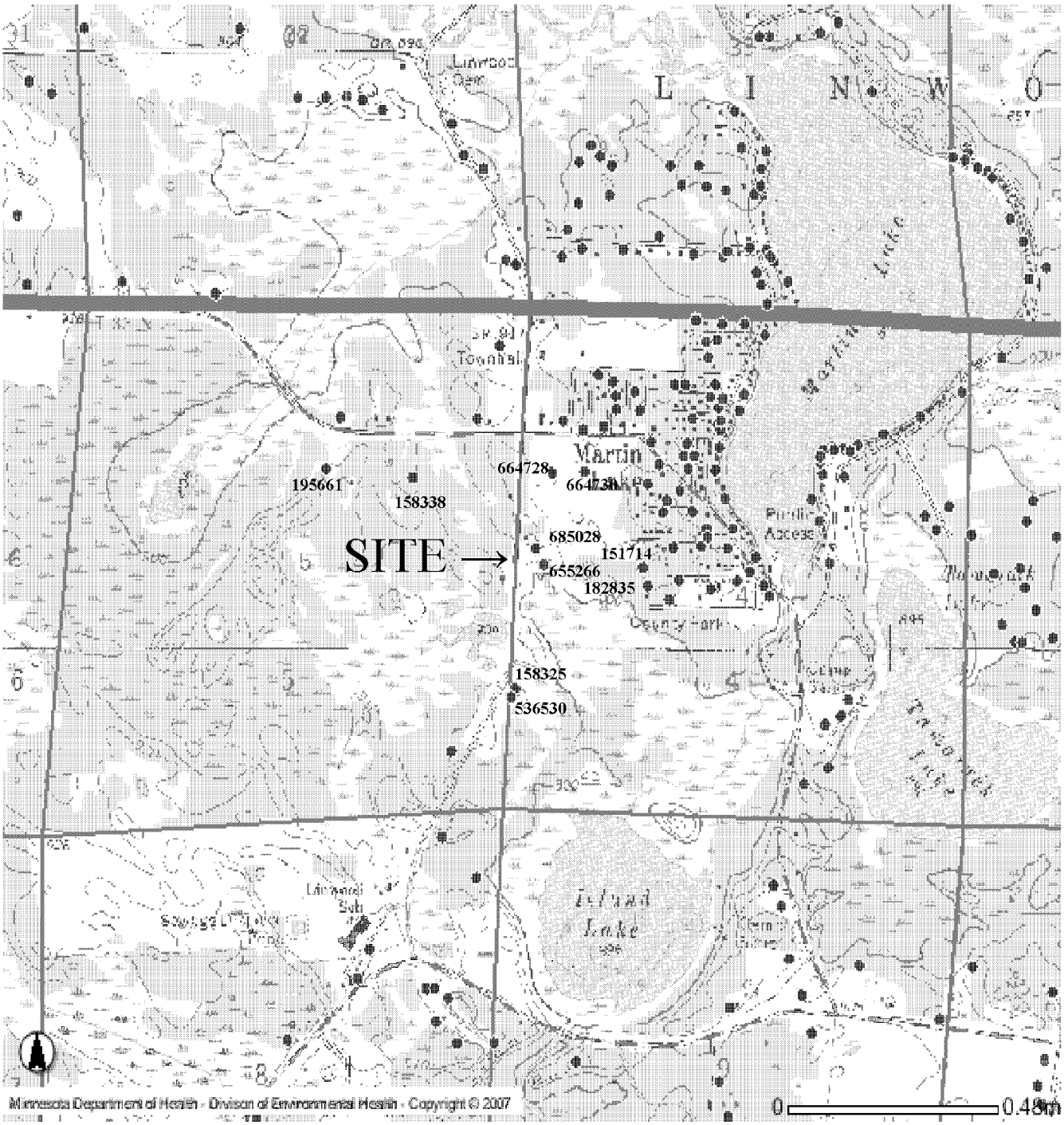
County Well Index Online Report | **737387** | Printed 6/27/2008 HE-01205-07

SITE SUMMARY

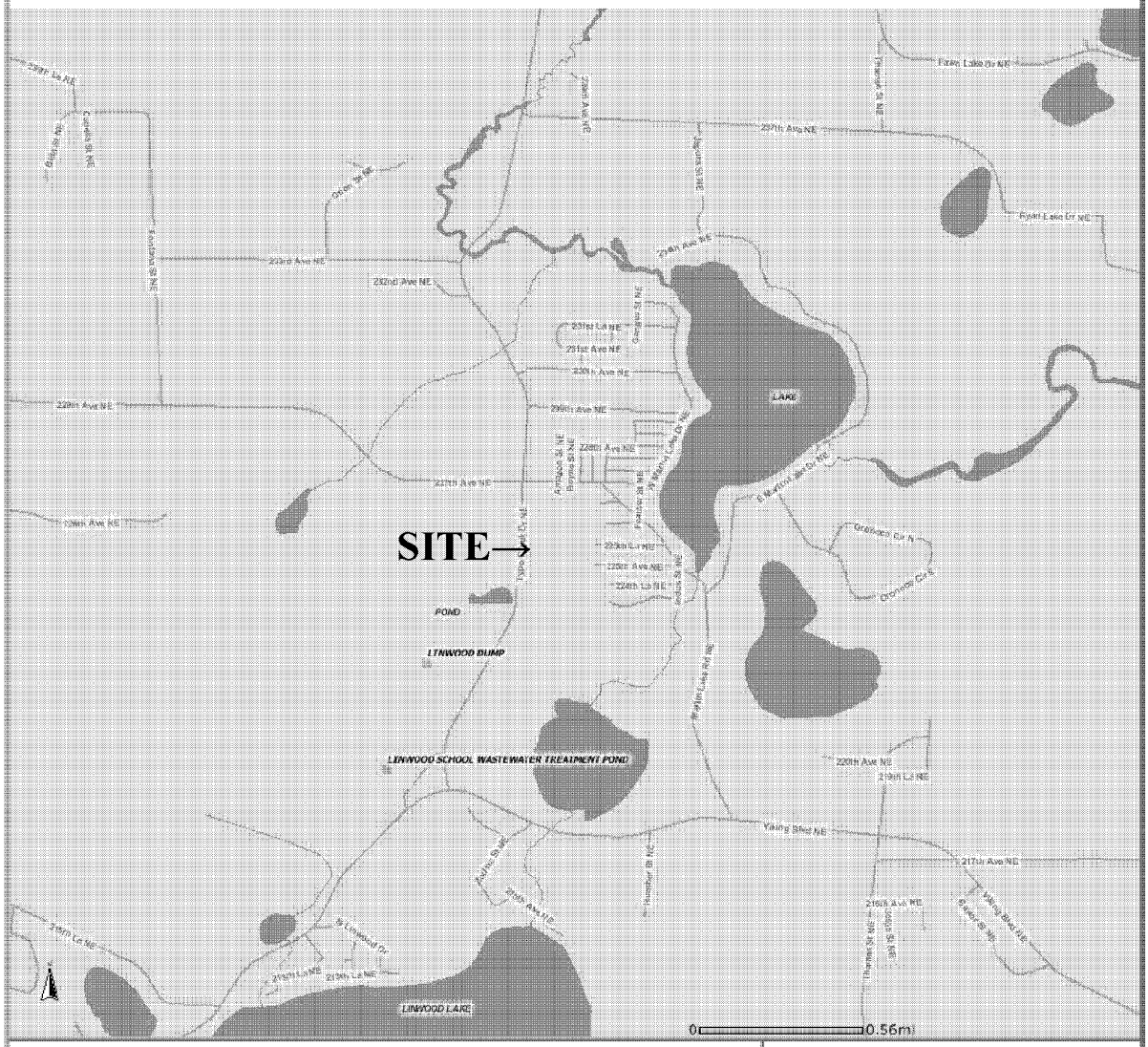
Site Name:	Linwood
Fire Department:	Linwood Fire Department 22817 Typo Creek Drive NE Stacy, MN 55079
Site Contact:	Jim Stockinger, Fire Captain 612-868-1924

Training Location:	Behind station, 22870 Typo Creek Drive, Stacy
Type of foam used in training:	AFFF: 3M Light Water ATC AR-AFFF: 3M Light Water ATC
Foam training frequency:	Annually
Foam use per training event:	5 to 10 gallons
Spent foam destination:	Ground
Annual foam use:	AFFF: 5 to 10 gallons AR-AFFF: 5 to 10 gallons Class A: 20 to 25 gallons
Nearest surface water:	Unidentified pond less than 1/4 mile southwest
Nearest wetland:	Less than 1/4 mile southeast and southwest
Nearest water well:	Less than 1/4 mile east
Nearest Wellhead Protection Area:	More than 1 mile
SITE RANKING:	**21**

LINWOOD TOWNSHIP CWI Well Map



Linwood *What's In My Neighborhood* Map



Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

Minnesota Pollution Control Agency

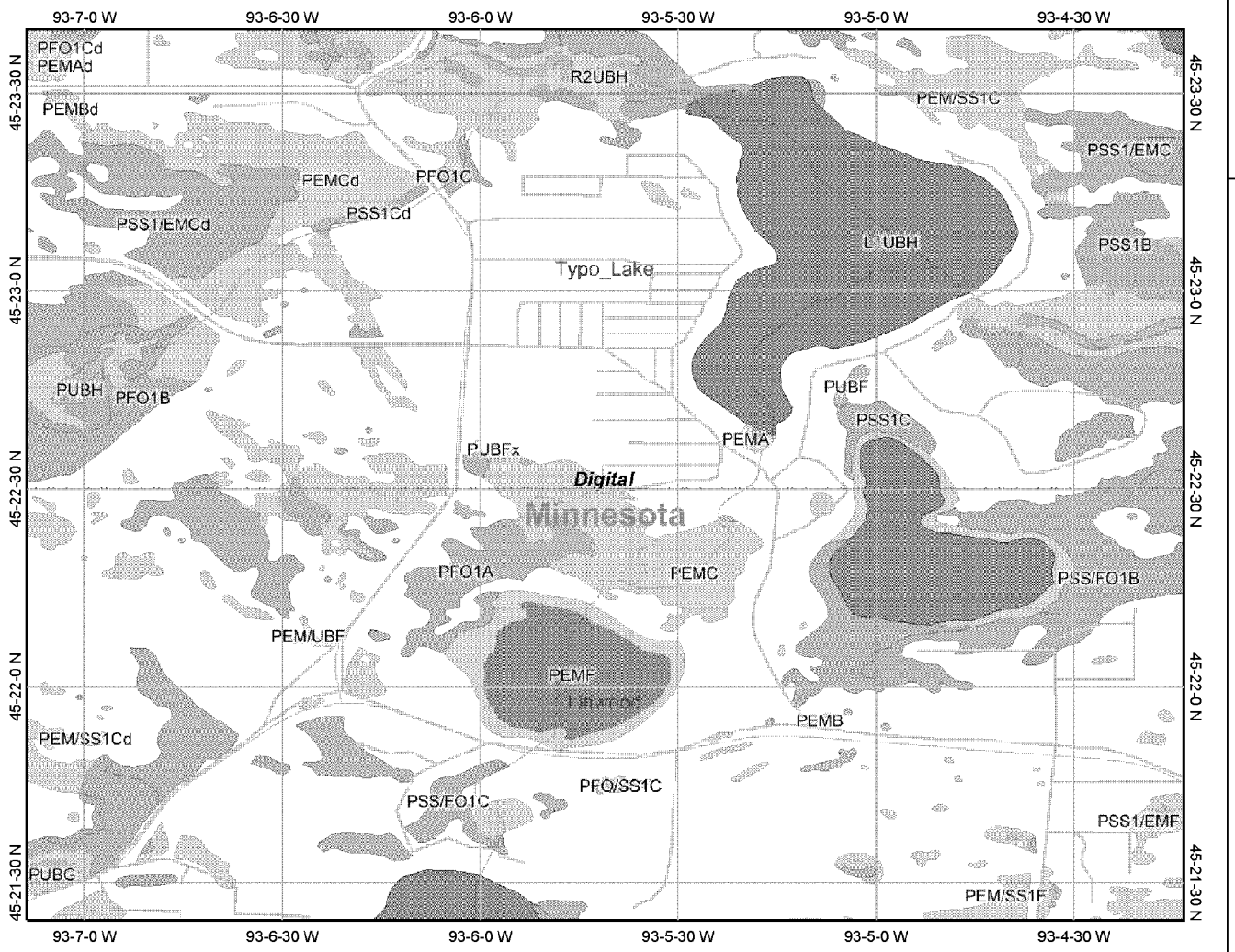
Sites

- Delisted State Superfund
- ■ Permitted Solid Waste
- Unpermitted Dumps
- ■ NFRAP
- State Superfund
- ● CERCLIS
- ○ Federal Superfund
- ● State Closed Landfills
- Voluntary Investigation & Cleanup
- ▲ RCRA TSD Facilities
- RCRA Investigation & Cleanup
- ▲ State Assessment

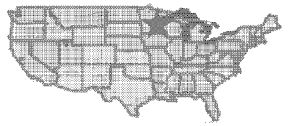
STATE_02822335

2222.1378

Linwood Township



Map center: 45° 22' 32" N, 93° 5' 41" W



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:29,227

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

2222.1379

STATE_02822336

Minnesota Unique Well No.
151714

County Anoka
Quad Typo Lake
Quad ID 135A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/15/1991
Update Date 07/04/1991
Received Date

Well Name ROBERT KENDAL
Township Range Dir Section Subsections Elevation 911 **ft.**
33 22 W 4 CABBBA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
128 ft.	128 ft.	10/27/1978

Drilling Method --

Geological Material	Color	Hardness	From	To
FINE SAND			0	48
FINE SAND & CLAY	BLUE		48	65
CLAY	RED		65	110
CLAY & GRAVEL			110	122
SAND & GRAVEL			122	128

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 124 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	80	4	124 ft. and 128 ft.

Static Water Level
17 ft. from Land surface Date Measured 10/27/1978

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Address verification
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 492566 **Y:** 5024869

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed
Manufacturer's name MCDONALD Model number L78
__ HP 0.5 Volts
Length of drop Pipe 42 ft. Capacity _g.p.m
Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

First Bedrock
Last Strat Sand
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

Well Contractor Certification
Johnson Bros. Well 62114
License Business Name Lic. Or Reg. No. Name of Driller

STATE_02822337

2222.1380

County Well Index Online Report	151714	Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
158325

County Anoka
Quad Typo Lake
Quad ID 135A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/15/1991
Update Date 08/08/2002
Received Date

Well Name OSTLUND

Township	Range	Dir	Section	Subsections	Elevation	Elevation Method
33	22	W	4	CBCBBD	910 ft.	7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
200 ft.	200 ft.	05/23/1986

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 1.8 ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 132 ft.	11 lbs./ft.	6 in. to 132 ft.
		4 in. to 200 ft.

Open Hole from 132 ft. to 200 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
22343 TYPO CREEK DR

Geological Material	Color	Hardness	From	To
SAND	BROWN	SOFT	0	10
SAND	BLUE	SOFT	10	40
CLAY	BLUE	SOFT	40	60
WATER SAND	RED	SOFT	60	80
CLAY	RED	MEDIUM	80	105
ROCKS & GRAVEL	BROWN	HARD	105	125
SANDROCK	YELLOW	HARD	125	200

Static Water Level
15 ft. from Land surface Date Measured 05/23/1986

PUMPING LEVEL (below land surface)
50 ft. after 2 hrs. pumping 50 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)

Unique Number Verification Information from owner
Date 04/30/2001

System *UTM - Nad83, Zone15, Meters*
X: 492100 **Y:** 5024483

Nearest Known Source of Contamination
50 feet South East direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☑ Not Installed Date Installed 05/27/1986
Manufacturer's name MYERS Model number SJ52-J511
HP 0.5 Volts 115
Length of drop Pipe 42 ft. Capacity 12 g.p.m
Type Submersible Material Galvanized

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Torgerson, Art & Son 02203 TORGERSON, S.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Franconia
Last Strat Franconia
Aquifer Franconia
Depth to Bedrock 125 ft.

County Well Index Online Report

158325

Printed 6/27/2008
HE-01205-07

Minnesota Unique Well No.
158338

County Anoka
Quad Typo Lake
Quad ID 135A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/15/1991
Update Date 07/04/1991
Received Date

Well Name STEVE ERICKSON
Township Range Dir Section Subsections Elevation 912 **ft.**
33 22 W 5 ADBCBC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
70 **ft.**	70 **ft.**	07/22/1986

Drilling Method --

Well Address
6430 227TH AV NE
MN

Geological Material	Color	Hardness	From	To
SAND	BROWN	SOFT	0	10
WATER SAND	BROWN	SOFT	10	30
SAND	BLUE	SOFT	30	45
CLAY	BLUE	HARD	45	52
WATER SAND	BROWN		52	70

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 65 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	10	4	65 ft. and 70 ft.

Static Water Level
10 ft. from Land surface Date Measured 07/22/1986

PUMPING LEVEL (below land surface)
30 ft. after hrs. pumping 20 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
6430 - 222TH AVE. NE.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 491727 **Y:** 5025156

Nearest Known Source of Contamination
100 feet S direction Septic tank/drain field type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed
Manufacturer's name MYERS Model number SJ52-J511P
HP 0.5 Volts 230
Length of drop Pipe 21 ft. Capacity 12 g.p.m
Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

First Bedrock
Last Strat Sand-brown
Aquifer Quat. Water Table Aquifer
Depth to Bedrock ft.

Well Contractor Certification
Torgerson, Art & Son 02203
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report | **158338** | Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
182835

County Anoka
Quad Typo Lake
Quad ID 135A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/15/1991
Update Date 07/04/1991
Received Date

Well Name TOM MORRIS

Township	Range	Dir	Section	Subsections	Elevation
33	22	W	4	CABACB	912 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
61 ft.	61 ft.	05/21/1982

Drilling Method --

Geological Material	Color	Hardness	From	To
SAND			0	37
CLAY			37	52
WATERSAND			52	61

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 60 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON 236 **Type**

Diameter	Slot/Gauze	Length	Set Between
2.5	18	6	55 ft. and 61 ft.

Static Water Level
22 ft. from Land surface Date Measured 05/21/1982

PUMPING LEVEL (below land surface)
40 ft. after hrs. pumping 15 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
6838 - 225TH AVE. NE.
BICKS SHADYLAND BEACH BLK 8 LOT 8. SOUTH 0.5 SECT.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification N/A **Date** N/A

System *UTM - Nad83, Zone15, Meters* **X:** 492583 **Y:** 5024810

Nearest Known Source of Contamination
55 feet _direction Septic tank/drain field type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed
Manufacturer's name Model number ___ HP 0 Volts
Length of drop Pipe 40 ft. Capacity 15 g.p.m
Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

First Bedrock
Last Strat Sand
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

Well Contractor Certification
Mccullough & Sons 82054
License Business Name Lic. Or Reg. No. Name of Driller

STATE_02822341

2222.1384

County Well Index Online Report	182835	Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
195661

County Anoka
Quad Typo Lake
Quad ID 135A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/15/1991
Update Date 07/04/1991
Received Date

Well Name ROBERT STAUMM
Township Range Dir Section Subsections Elevation 911 **ft.**
33 22 W 5 ACBCAA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
64 **ft.**	64 **ft.**	09/22/1983

Drilling Method --

Geological Material	Color	Hardness	From	To
SAND			0	48
CLAY			48	51
WATER SAND	RED		51	64

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 62 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON 236 **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
2.5	18	6	58 ft. and 64 ft.

Static Water Level
13 ft. from Land surface Date Measured 09/22/1983

PUMPING LEVEL (below land surface)
40 ft. after hrs. pumping 15 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
6256 - 227TH AVE., STACY

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 491411 **Y:** 5025184

Nearest Known Source of Contamination
100 feet _direction Septic tank/drain field type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed
Manufacturer's name RED JACKET Model number BVC751
HP 0.75 Volts 230
Length of drop Pipe 40 ft. Capacity 15 g.p.m
Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

First Bedrock
Last Strat Sand-red
Aquifer Quat. Water Table Aquifer
Depth to Bedrock ft.

Well Contractor Certification
Mccullough & Sons 82054
License Business Name Lic. Or Reg. No. Name of Driller

STATE_02822343

2222.1386

County Well Index Online Report	195661	Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
536530

County Anoka
Quad Linwood
Quad ID 135D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 08/11/1994
Update Date 02/04/2004
Received Date

Well Name OSTLUND, HAROLD & MARLYS
Township Range Dir Section Subsections Elevation 909 **ft.**
33 22 W 4 CCBBBC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
175 **ft.**	175 **ft.**	06/15/1994

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 131 ft.	10.79 lbs./ft.	6.75 in. to 131 ft.
		4 in. to 175 ft.

Open Hole from 131 ft. to 175 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
22261 TYPO CREEK DR NE
WYOMING MN 55092

Geological Material	Color	Hardness	From	To
FINE SAND			0	36
CLAY	BLUE		36	41
FINE SAND			41	69
RED CLAY, GRAVEL, ROCKS	RED		69	123
SANDSTONE	BRN/BLK		123	144
SANDSTONE	YEL/WHT		144	175

Static Water Level
10 ft. from Land surface Date Measured 06/15/1994

PUMPING LEVEL (below land surface)
ft. after 2 hrs. pumping 40 g.p.m.

Well Head Completion
Pitless adapter manufacturer WHITEWATER Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Bentonite from 0 to 30 ft.

Located **Method** Digitization (Screen) - Map (1:24,000)

Unique Number Verification Information from owner **Date** N/A

System *UTM - Nad83, Zone15, Meters* **X:** 492085 **Y:** 5024456

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 06/16/1994
Manufacturer's name STA-RITE Model number ___ HP 1 Volts
Length of drop Pipe 42 ft. Capacity 20 g.p.m Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Johnson G. Well Co. 13539 KRINGLE, M.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Franconia **Aquifer** Franconia
Last Strat Franconia **Depth to Bedrock** 123 **ft.**

County Well Index Online Report **536530** Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
655266

County Anoka
Quad Typo Lake
Quad ID 135A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 06/13/2001
Update Date 03/19/2007
Received Date 01/08/2001

Well Name

Township	Range	Dir	Section	Subsections	Elevation	
33	22	W	4	CBBBAA	**Elevation Method**	910 **ft.** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
69 **ft.**	69 **ft.**	10/21/2000

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** Glued **Drive Shoe?** ☐ Yes ☑ No **Above/ Below ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 60 ft.	lbs./ft.	8.5 in. to 30 ft.
		6.5 in. to 69 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	7	8	60 ft. and 69 ft.

Static Water Level
10 ft. from Land surface Date Measured 10/21/2000

PUMPING LEVEL (below land surface)
ft. after 1 hrs. pumping 40 g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model 8PL41UC1
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
22521 TYPO CREEK DR
LINWOOD MN

Geological Material	Color	Hardness	From	To
SAND	TAN	SOFT	0	19
SAND	GRAY	SOFT	19	34
CLAY	GRAY	SOFT	34	50
SAND	BROWN	SOFT	50	69

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: High solids bentonite	from 0 to 30 ft.	3 bags
Grout Material: Cuttings	from 30 to 60 ft.	

Located Minnesota Department of Health **Method** GPS SA Off (averaged)
Unique Number Verification N/A **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 492204 **Y:** 5024878

Nearest Known Source of Contamination
65 feet N direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 11/06/2000
Manufacturer's name AERMOTOR Model number T1250
HP 0.5 Volts 230
Length of drop Pipe 40 ft. Capacity 10 g.p.m
Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification

License Business Name	Lic. Or Reg. No.	Name of Driller
Mork Well Co.	02658	THOMPSON, S.

First Bedrock
Last Strat Sand-brown
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **655266** | Printed 6/27/2008 HE-01205-07

STATE_02822346

2222.1389

Minnesota Unique Well No.
664728

County Anoka
Quad Typo Lake
Quad ID 135A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 07/01/2002
Update Date 12/21/2006
Received Date

Well Name

Township Range Dir Section Subsections Elevation 920 **ft.**

33	22	W	4	BCBD	**Elevation Method**	7.5 minute topographic map (+/- 5 feet)

Well Depth	**Depth Completed**	**Date Well Completed**
128 **ft.**	128 **ft.**	08/27/2001

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** Glued **Drive Shoe?** ☐ Yes ☑ No **Above/ Below ft.**

Casing Diameter	**Weight**	**Hole Diameter**
4 in. to 120 ft.	lbs./ft.	8.5 in. to 15 ft.
		6.5 in. to 120 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	**Slot/Gauze**	**Length**	**Set Between**
2	7	8	120 ft. and 128 ft.

Well Address
6660 227TH AV NE
LINWOOD MN

Geological Material	**Color**	**Hardness**	**From**	**To**
SAND	TAN	SOFT	0	58
CLAY	GRAY	SOFT	58	78
CLAY	BROWN	SOFT	78	105
CLAY, GRAVEL	BROWN	SOFT	105	118
SAND	TAN	SOFT	118	128

Static Water Level
20 ft. from Land surface Date Measured 08/27/2001

PUMPING LEVEL (below land surface)
ft. after 1 hrs. pumping 25 g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model SNAPPY
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: High solids bentonite	from 0 to 30 ft.	3 bags
Grout Material: Cuttings	from 30 to 120 ft.	

Located Minnesota Department of Health
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 492235 **Y:** 5025171

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 08/30/2001
Manufacturer's name GOULDS Model number 10SB05-422
__ HP 0.5 Volts 230
Length of drop Pipe 40 ft. Capacity 10 g.p.m
Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
Mork Well Co., Inc. 02730 BECKWORTH, D.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-brown
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report

664728

Printed 6/27/2008
HE-01205-07

Minnesota Unique Well No.
664730

County Anoka
Quad Typo Lake
Quad ID 135A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 11/03/2001
Update Date 03/19/2007
Received Date 09/17/2001

Well Name

Township Range Dir Section Subsections Elevation 917 **ft.**

33	22	W	4	BCACBB	**Elevation Method**	7.5 minute topographic map (+/- 5 feet)

Well Depth	**Depth Completed**	**Date Well Completed**
149 **ft.**	149 **ft.**	07/02/2001

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☑ No From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** Glued **Drive Shoe?** ☐ Yes ☑ No **Above/ Below ft.**

Casing Diameter	**Weight**	**Hole Diameter**
4 in. to 140 ft.	lbs./ft.	8.5 in. to 30 ft.
		6.5 in. to 149 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	**Slot/Gauze**	**Length**	**Set Between**
2	10	8	140 ft. and 149 ft.

Static Water Level
21 ft. from Land surface Date Measured 07/02/2001

PUMPING LEVEL (below land surface)
ft. after 1 hrs. pumping 40 g.p.m.

Well Head Completion
Pitless adapter manufacturer SNAPPY Model 8PL4UC1
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
6720 227TH AV NE
LINWOOD TOWNSHIP MN

Geological Material	**Color**	**Hardness**	**From**	**To**
SAND	TAN	SOFT	0	46
CLAY	GRAY	SOFT	46	74
CLAY	BROWN	SOFT	74	100
CLAY, GRAVEL	BROWN	SOFT	100	138
SAND, GRAVEL	TAN	SOFT	138	149

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: High solids bentonite	from 0 to 30 ft.	3 bags
Grout Material: Cuttings	from 30 to 140 ft.	

Located Minnesota Department of Health **Method** GPS SA Off (averaged)
Unique Number Verification N/A **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 492353 **Y:** 5025174

Nearest Known Source of Contamination
65 feet S direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 07/06/2001
Manufacturer's name AERMOTOR Model number T1250
HP 0.5 Volts 230
Length of drop Pipe 40 ft. Capacity 10 g.p.m Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification

Mork Well Co., Inc.	02730	BECKWORTH, D.
License Business Name	Lic. Or Reg. No.	Name of Driller

First Bedrock
Last Strat Sand & larger-brown
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **664730** | Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
685028

County Anoka
Quad Typo Lake
Quad ID 135A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 01/29/2003
Update Date 12/21/2006
Received Date

Well Name
Township Range Dir Section Subsections Elevation 918 **ft.**
33 22 W 4 BCCCDB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
128 **ft.**	128 **ft.**	11/06/2002

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☑ No From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** Unknown **Drive Shoe?** ☐ Yes ☑ No **Above/ Below ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 118 ft.	lbs./ft.	6.5 in. to 128 ft.

Open Hole from ft. to ft.

Screen YES **Make** BIG FOOT **Type** plastic

Diameter	Slot/Gauze	Length	Set Between
4	8	10	118 ft. and 128 ft.

Static Water Level
25 ft. from Land surface Date Measured 10/16/2002

PUMPING LEVEL (below land surface)
80 ft. after 1 hrs. pumping 20 g.p.m.

Well Head Completion
Pitless adapter manufacturer BAKER Model SNAPPY
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
22541 TYPO CREEK DR
MN

Geological Material	Color	Hardness	From	To
SAND	TAN	SOFT	0	20
CLAY FIRM	RED		20	50
SAND	RED	SOFT	50	80
ROCKY CLAY	RED	HARD	80	110
SAND	BROWN	SOFT	110	120
SAND/GRAVEL	BROWN	SOFT	120	128

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: High solids bentonite	from 0 to 30 ft.	2
Grout Material: Cuttings	from 30 to 118 ft.	

Located Minnesota Department of Health **Method** GPS SA Off (averaged)
Unique Number Verification N/A **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 492175 **Y:** 5024931

Nearest Known Source of Contamination
100 feet E direction Sewer type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed 11/06/2002
Manufacturer's name AERMOTOR Model number SD-12-50
HP 0.5 Volts 230
Length of drop Pipe 60 ft. Capacity 12 g.p.m Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
Sampson Bros Well 62670 PRAUGHT, S
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand & larger-brown
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

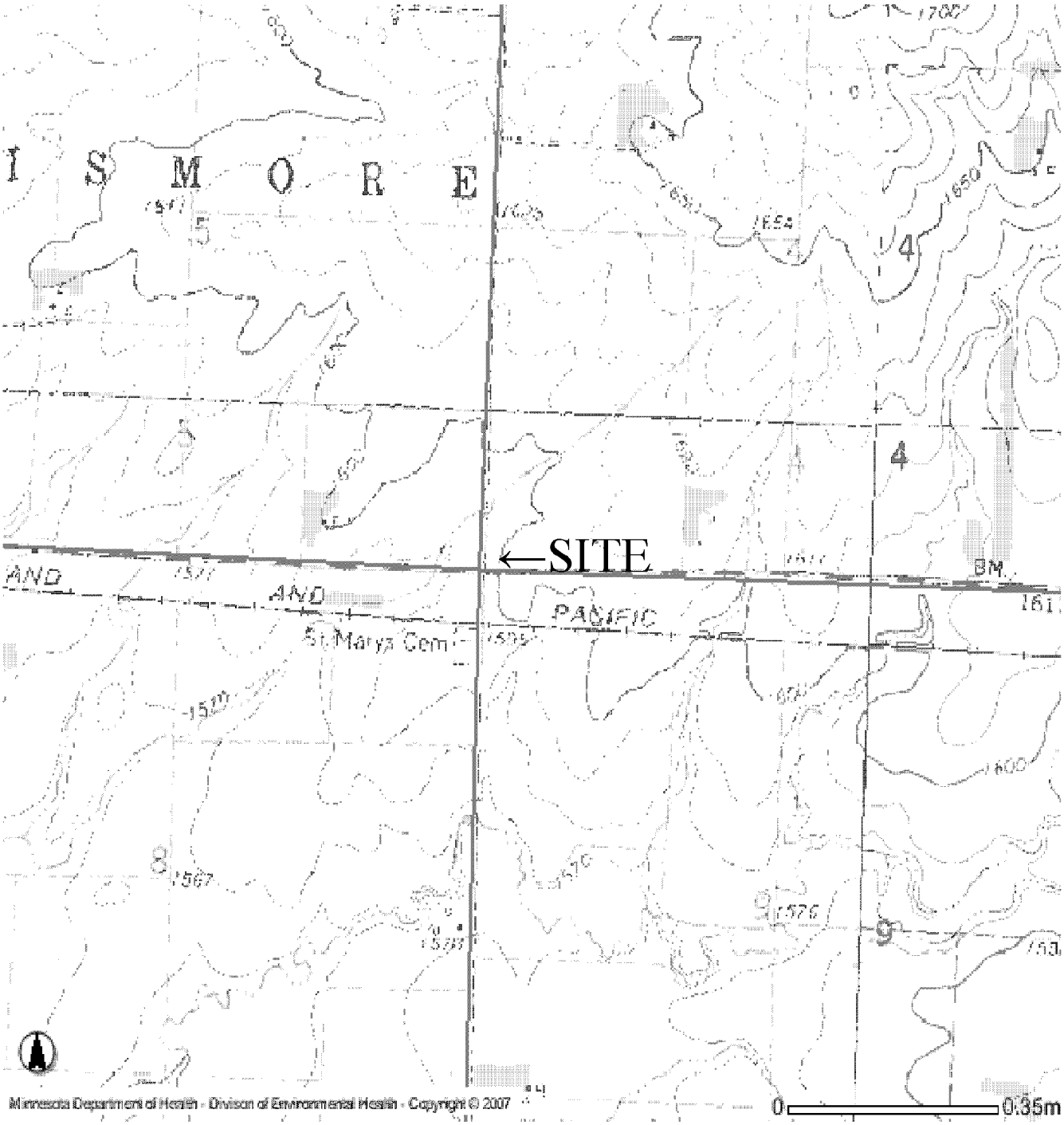
County Well Index Online Report | **685028** | Printed 6/27/2008 HF-01205-07

SITE SUMMARY

Site Name:	Lismore
Fire Department:	Lismore Fire Department PO Box 188 Lismore, MN 56155
Site Contact:	James Weidert 507-920-7208 jkweidert@myclearwave.net

Training Location:	Barn fire, Birkett & 170th St.
Type of foam used in training:	Not specified, 3M foam use assumed
Foam training frequency:	One to two times per year
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Ground
Annual foam use:	Not specified
Nearest surface water:	Intermittent stream less than 1/4 mile west
Nearest wetland:	1/4 to 1/2 mile south
Nearest water well:	More than 1 mile
Nearest Wellhead Protection Area:	More than 1 mile
SITE RANKING:	**16**

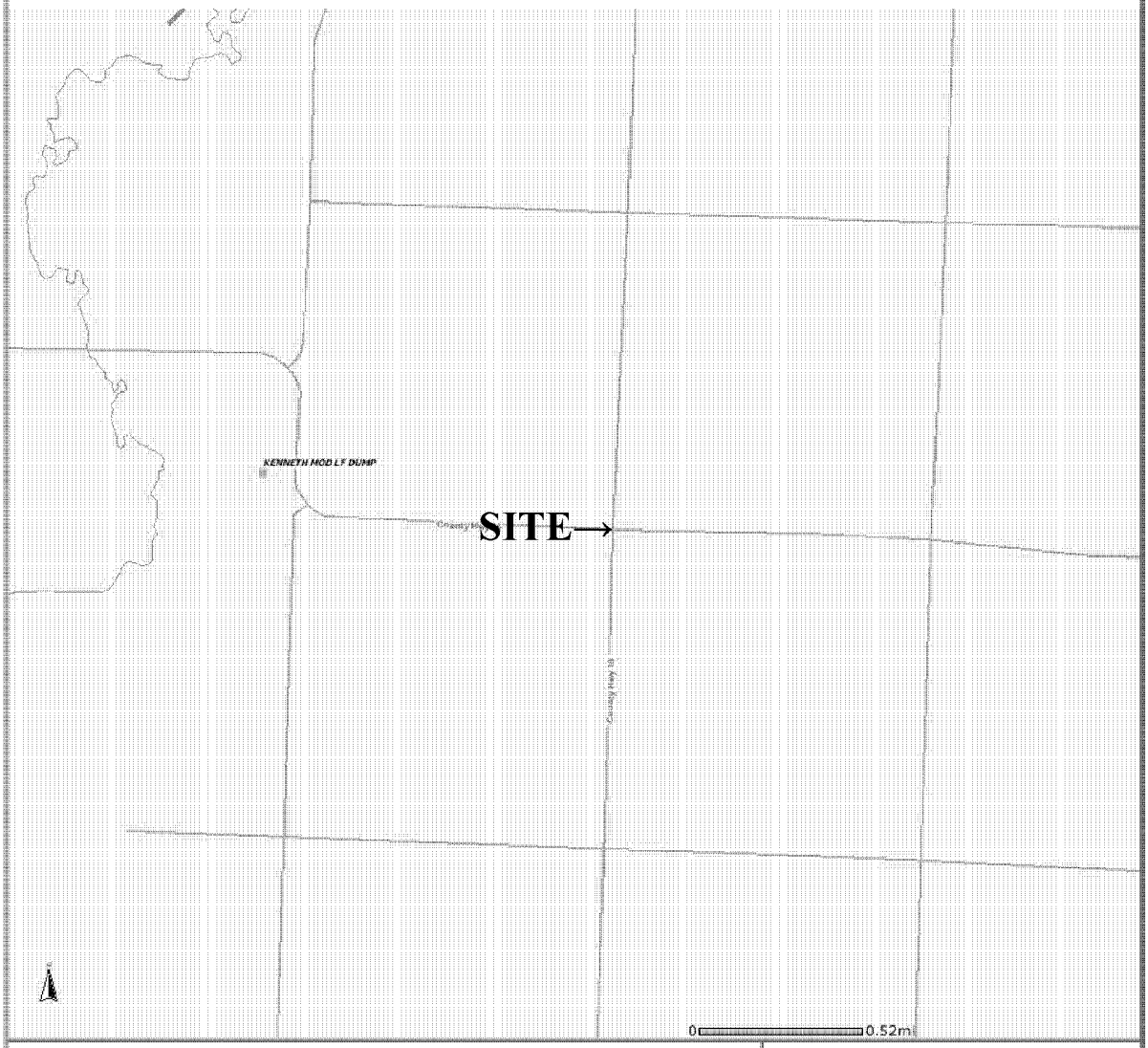
LISMORE CWI Well Map



STATE_02822351

2222.1394

Lismore *What's In My Neighborhood* Map



Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

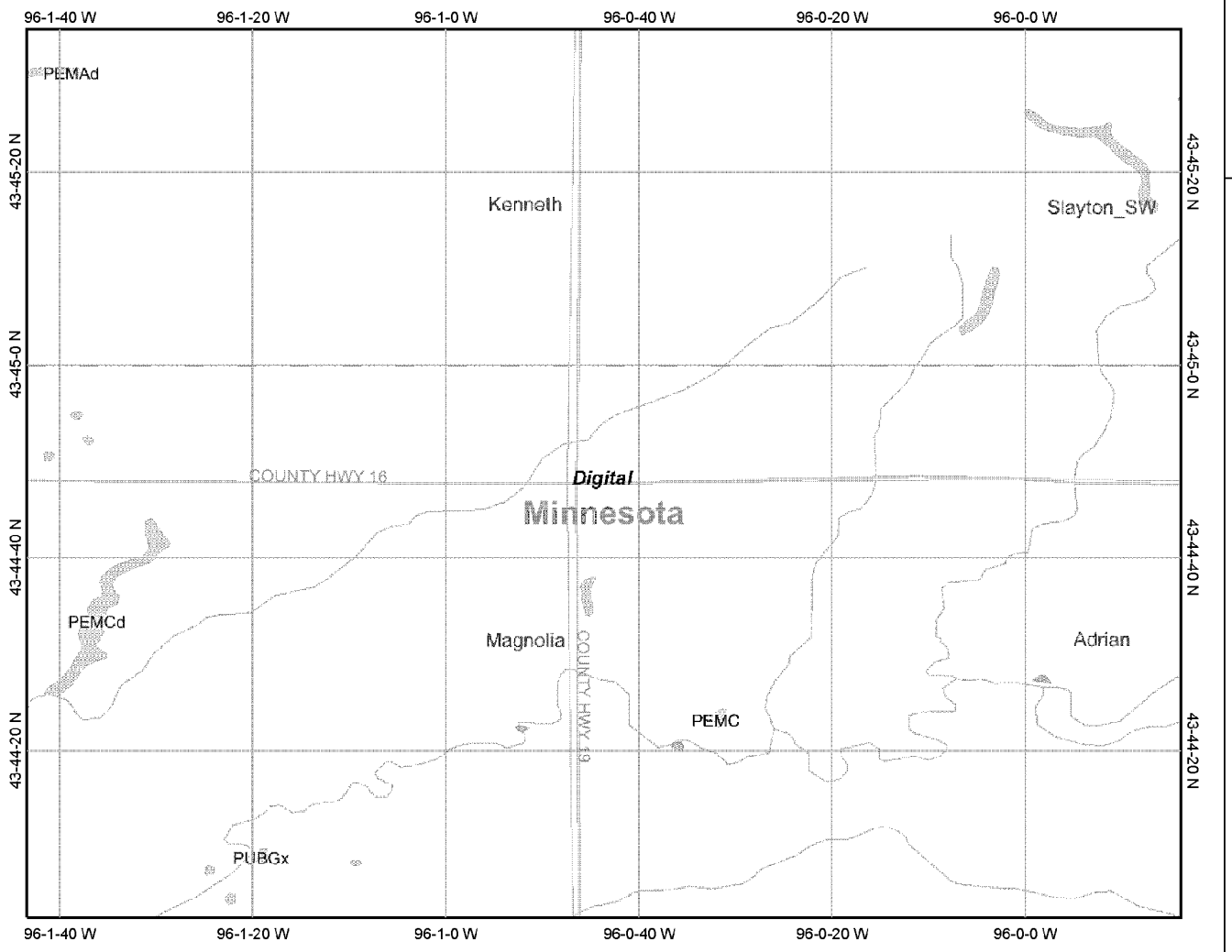
Minnesota Pollution Control Agency

Sites

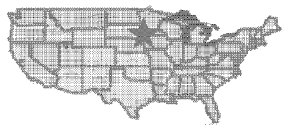
- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

STATE_02822352

Lismore Wetland Map



Map center: 43° 44' 49" N, 96° 0' 44" W



Legend

Ohio_wet_scan
- 0
- 1
- Out of range

Interstate

Major Roads

Other Road
- Interstate
- State highway
- US highway

Roads

Cities

USGS Quad Index 24K

Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan

NHD Streams

Counties 100K

States 100K
- South America
- North America

Scale: 1:19,891

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2222.1396

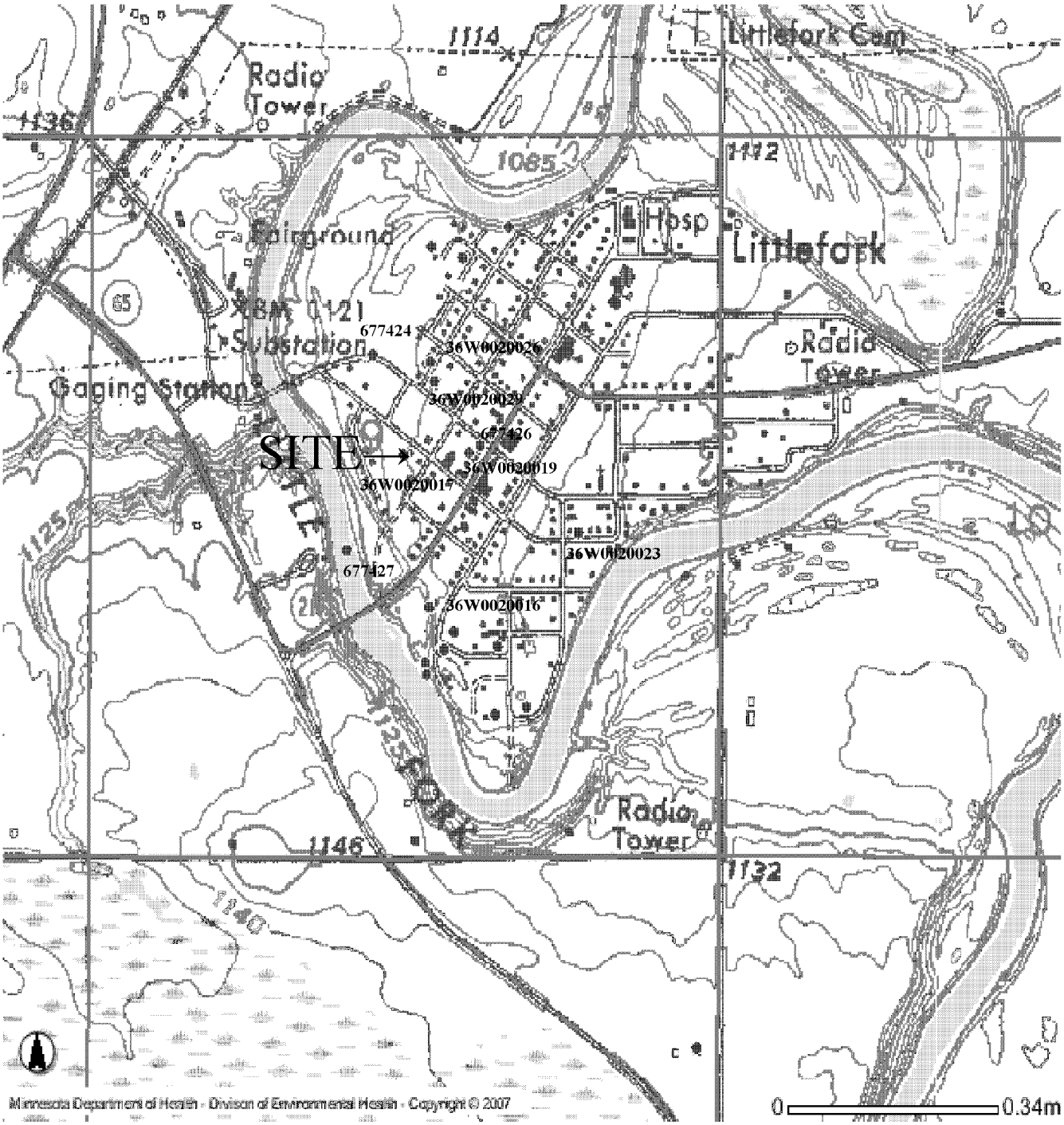
STATE_02822353

SITE SUMMARY

Site Name:	Littlefork
Fire Department:	Littlefork Fire Department PO Box 387 Littlefork, MN 56653
Site Contact:	Michael LaClair, Secretary 218-278-6666

Training Location:	Fire hall, corner of McPherson and 3rd Avenue, Littlefork
Type of foam used in training:	Not specified, 3M foam use assumed
Foam training frequency:	Annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Storm sewer
Annual foam use:	Not specified
Nearest surface water:	Little Fork River less than 1/4 mile west
Nearest wetland:	On or adjacent to training site
Nearest water well:	On or adjacent to training site
Nearest Wellhead Protection Area:	More than 1 mile
SITE RANKING:	**19**

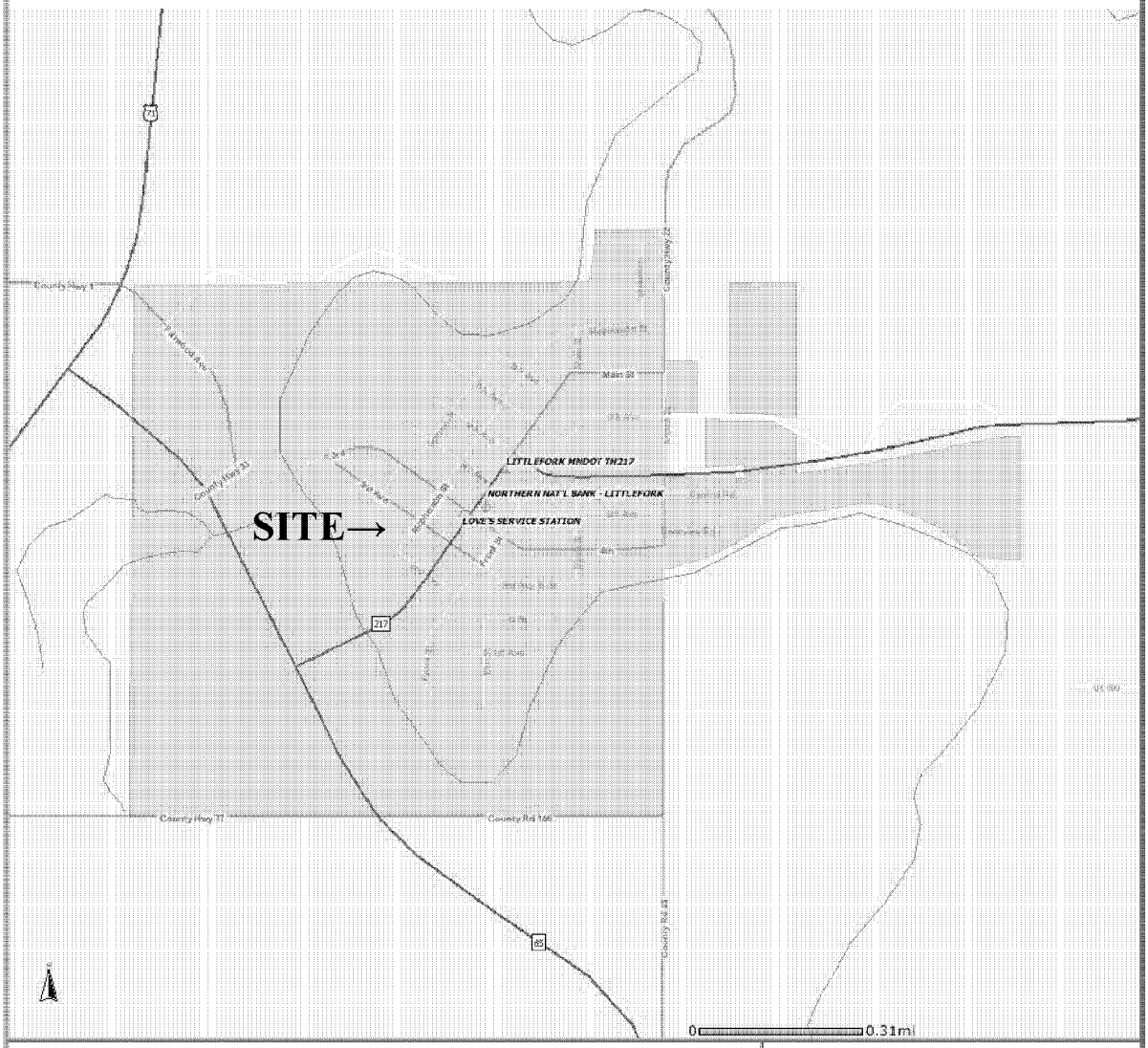
LITTLEFORK CWI Well Map



STATE_02822355

2222.1398

Littlefork *What's In My Neighborhood* Map



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Minnesota Pollution Control Agency

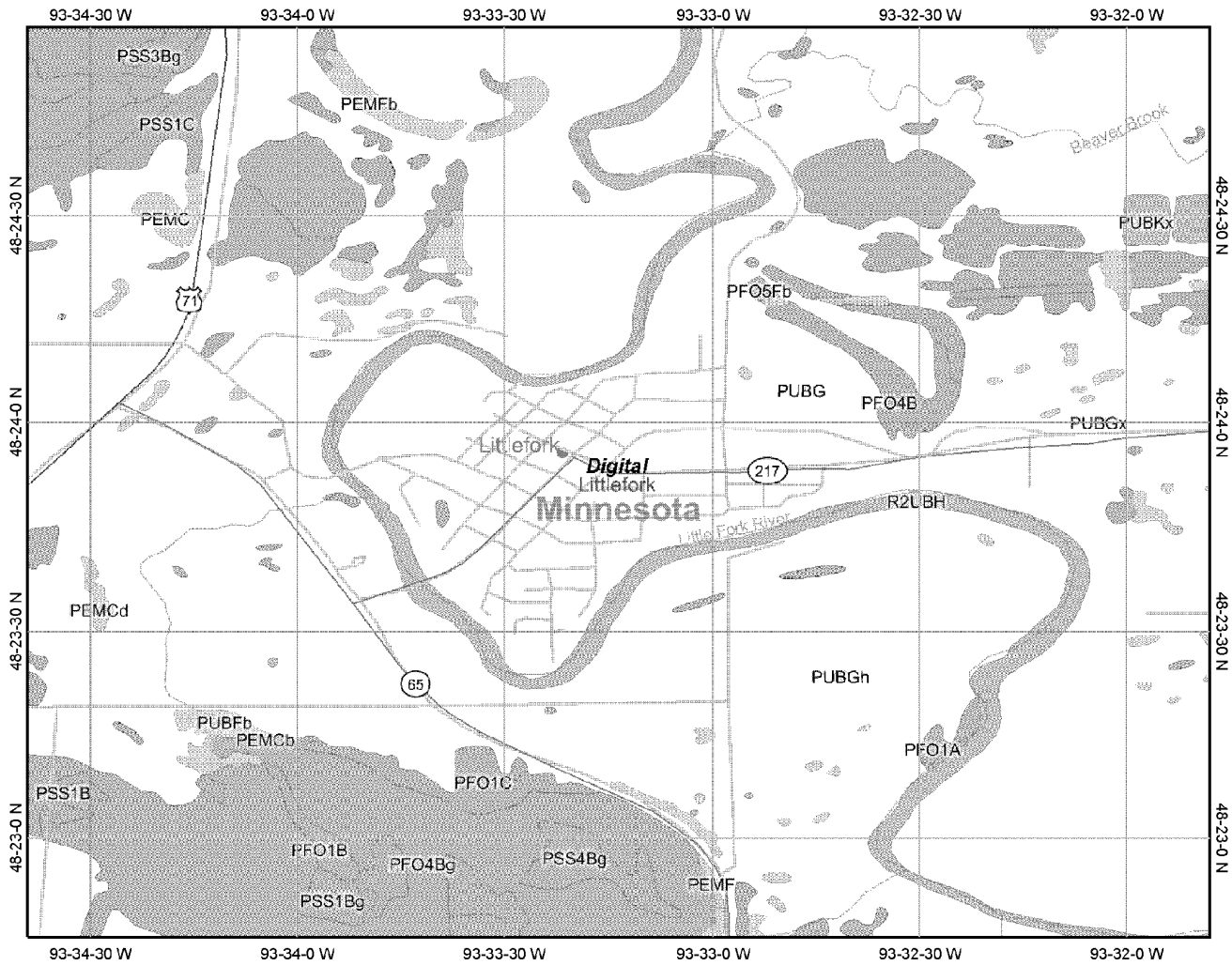
Sites

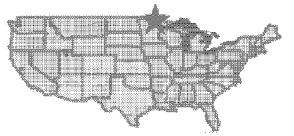
- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

STATE_02822356

2222.1399

Littlefork Wetland Map





Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:28,460

Map center: 48° 23' 51" N, 93° 33' 13" W

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2222.1400

STATE_02822357

Minnesota Unique Well No.
677424

County Koochichng
Quad Littlefork
Quad ID 405A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 05/05/2003
Update Date 08/07/2007
Received Date 04/11/2003

Well Name MW-

Township Range Dir Section Subsections Elevation 1113 **ft.**

68	25	W	9	BDAA	**Elevation Method**	Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	**Depth Completed**	**Date Well Completed**
20 **ft.**	20 **ft.**	04/03/2003

Drilling Method Auger (non-specified)

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Monitor well

Casing Type Plastic **Joint** Threaded **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
2 in. to 10 ft.	0.69 lbs./ft.	8.25 in. to 20 ft.

Open Hole from ft. to ft.

Screen YES **Make** MONOFLEX **Type** plastic

Diameter	Slot/Gauze	Length	Set Between
2	10	10	10 ft. and 20 ft.

Geological Material	Color	Hardness	From	To
SAND	BROWN	MEDIUM	0	19
CLAY W/SILT	BROWN	MEDIUM	19	20

Static Water Level
15 ft. from Land surface Date Measured 04/03/2003

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☑ Casing Protection Y ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
WELL: 4TH AVE & SPRUCE STREET

Located Minnesota Department of Health **Method** GPS SA Off (averaged)
Unique Number Verification N/A **Date** 04/30/2003
System *UTM - Nad83, Zone15, Meters* **X:** 458445 **Y:** 5360779

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Neat Cement from 0 to 8 ft. 3 bags

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

STATE_02822358

2222.1401

First Bedrock **Last Strat**	**Aquifer** **Depth to Bedrock ft.**	**Well Contractor Certification** Matrix Environmental M0175 PAQUETTE, G License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	**677424**	Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
677426

County Koochichng
Quad Littlefork
Quad ID 405A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 05/05/2003
Update Date 08/07/2007
Received Date 04/11/2003

Well Name MW
Township Range Dir Section Subsections Elevation 1115 **ft.**
68 25 W 9 ACCA **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
20 **ft.**	20 **ft.**	04/03/2003

Drilling Method Auger (non-specified)

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Monitor well

Casing Type Plastic **Joint** Threaded **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
2 in. to 10 ft.	0.69 lbs./ft.	8.25 in. to 20 ft.

Open Hole from ft. to ft.

Screen YES **Make** MONOFLEX **Type** plastic

Diameter	Slot/Gauze	Length	Set Between
2	10	10	10 ft. and 20 ft.

Geological Material	Color	Hardness	From	To
SAND	BROWN	MEDIUM	0	19
SILTY CLAY	BROWN	MEDIUM	19	20

Static Water Level
15 ft. from Land surface Date Measured 04/03/2003

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☑ Casing Protection Y ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
LOCATION: 4TH AVE & MAIN ST. LITTLEFORK, MN

Located Minnesota Department of Health **Method** GPS SA Off (averaged)
Unique Number Verification N/A **Date** 04/30/2003
System *UTM - Nad83, Zone15, Meters* **X:** 458720 **Y:** 5360576

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Neat Cement from 0 to 8 ft. 3 bags

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

STATE_02822360

2222.1403

First Bedrock **Last Strat**	**Aquifer** **Depth to Bedrock ft.**	**Well Contractor Certification** Matrix Environmental (License Business Name) M0175 (Lic. Or Reg. No.) PAQUETTE, G (Name of Driller)
County Well Index Online Report	**677426**	Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
677427

County Koochichng
Quad Littlefork
Quad ID 405A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 05/05/2003
Update Date 08/07/2007
Received Date 04/11/2003

Well Name MW
Township Range Dir Section Subsections Elevation 1086 **ft.**
68 25 W 9 CAAC **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
18 ft.	18 ft.	04/02/2003

Drilling Method Auger (non-specified)

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Monitor well

Casing Type Plastic **Joint** Threaded **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
2 in. to 8 ft.	0.69 lbs./ft.	8.25 in. to 18 ft.

Open Hole from ft. to ft.

Screen YES **Make** MONOFLEX **Type** plastic

Diameter	Slot/Gauze	Length	Set Between
2	10	10	8 ft. and 18 ft.

Geological Material	Color	Hardness	From	To
SAND	BROWN	MEDIUM	0	17
SILTY CLAY	BROWN	MEDIUM	17	18

Static Water Level
13 ft. from Land surface Date Measured 04/02/2003

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☑ Casing Protection Y ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
LOCATION: 2ND AVE & MCPHERSON ST. LITTLEFORK., MN

Located Minnesota Department of Health **Method** GPS SA Off (averaged)
Unique Number Verification N/A **Date** 04/30/2003
System *UTM - Nad83, Zone15, Meters* **X:** 458378 **Y:** 5360341

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Neat Cement from 0 to 6 ft. 2.5 bags

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

STATE_02822362

2222.1405

First Bedrock **Last Strat**	**Aquifer** **Depth to Bedrock ft.**	**Well Contractor Certification** Matrix Environmental M0175 PAQUETTE, G License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	**677427**	Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
36W0020016

County Koochichng
Quad Littlefork
Quad ID 405A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/22/2003
Update Date 01/07/2005
Received Date

Well Name

Township Range Dir Section Subsections Elevation 1102 **ft.**

68	25	W	9	DBCBAC	**Elevation Method**	Calc from DEM (USGS 7.5 min or equiv.)

Well Depth ft. | **Depth Completed ft.** | **Date Well Completed**

Drilling Method

Drilling Fluid

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use

Casing Type **Joint** **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter **Weight** **Hole Diameter**

Open Hole from ft. to ft.

Screen
Diameter **Slot/Gauze** **Length** **Set Between**

Geological Material **Color** **Hardness** **From** **To**

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Department of Health
Method GPS Differentially Corrected
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 458590 **Y:** 5360212

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification

First Bedrock
Last Strat
Aquifer
Depth to Bedrock ft.

License Business Name Lic. Or Reg. No. Name of Driller

STATE_02822364

County Well Index Online Report	36W0020016	Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
36W0020017

County Koochichng
Quad Littlefork
Quad ID 405A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/22/2003
Update Date 01/07/2005
Received Date

Well Name

Township Range Dir Section Subsections Elevation 1114 **ft.**

68 25 W 9 BDDDAA **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth ft. **Depth Completed** ft. **Date Well Completed**

Drilling Method

Drilling Fluid

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use

Casing Type **Joint** **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter **Weight** **Hole Diameter**

Open Hole from ft. to ft.

Screen
Diameter **Slot/Gauze** **Length** **Set Between**

Geological Material **Color** **Hardness** **From** **To**

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Department of Health
Method GPS Differentially Corrected
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 458525 **Y:** 5360554

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification

First Bedrock
Last Strat
Aquifer
Depth to Bedrock **ft.**

License Business Name Lic. Or Reg. No. Name of Driller

STATE_02822366

County Well Index Online Report	36W0020017	Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
36W0020018

County Koochichng
Quad Littlefork
Quad ID 405A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/22/2003
Update Date 01/07/2005
Received Date

Well Name

Township Range Dir Section Subsections Elevation 1115 **ft.**

68	25	W	9	ACCDAB	**Elevation Method**	Calc from DEM (USGS 7.5 min or equiv.)

Well Depth ft. | **Depth Completed ft.** | **Date Well Completed**

Drilling Method

Drilling Fluid

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use

Casing Type **Joint** **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter **Weight** **Hole Diameter**

Open Hole from ft. to ft.

Screen
Diameter **Slot/Gauze** **Length** **Set Between**

Geological Material **Color** **Hardness** **From** **To**

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Department of Health
Method GPS Differentially Corrected
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 458692 **Y:** 5360559

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification

First Bedrock
Last Strat
Aquifer
Depth to Bedrock ft.

License Business Name Lic. Or Reg. No. Name of Driller

STATE_02822368

County Well Index Online Report	36W0020018	Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
36W0020019

County Koochichng
Quad Littlefork
Quad ID 405A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/22/2003
Update Date 01/07/2005
Received Date

Well Name

Township Range Dir Section Subsections Elevation 1115 **ft.**

68 25 W 9 ACBCAC **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth ft. | **Depth Completed ft.** | **Date Well Completed**

Drilling Method

Drilling Fluid

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use

Casing Type **Joint** **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter **Weight** **Hole Diameter**

Open Hole from ft. to ft.

Screen
Diameter **Slot/Gauze** **Length** **Set Between**

Geological Material **Color** **Hardness** **From** **To**

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Department of Health
Method GPS SA On (averaged)
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 458603 **Y:** 5360720

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification

First Bedrock
Last Strat
Aquifer
Depth to Bedrock ft.

License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report	36W0020019	Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
36W0020023

County Koochichng
Quad Littlefork
Quad ID 405A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/22/2003
Update Date 01/07/2005
Received Date

Well Name

Township Range Dir Section Subsections Elevation 1106 **ft.**

68 25 W 9 DABBCD **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth ft. | **Depth Completed ft.** | **Date Well Completed**

Drilling Method

Drilling Fluid

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use

Casing Type **Joint** **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter **Weight** **Hole Diameter**

Open Hole from ft. to ft.

Screen
Diameter **Slot/Gauze** **Length** **Set Between**

Geological Material **Color** **Hardness** **From** **To**

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Department of Health
Method GPS Differentially Corrected
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 458972 **Y:** 5360380

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification

First Bedrock
Last Strat
Aquifer
Depth to Bedrock ft.

License Business Name Lic. Or Reg. No. Name of Driller

STATE_02822372

County Well Index Online Report	36W0020023	Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
36W0020026

County Koochichng
Quad Littlefork
Quad ID 405A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/22/2003
Update Date 01/07/2005
Received Date

Well Name

Township Range Dir Section Subsections Elevation 1115 **ft.**

68	25	W	9	ACBCAB	**Elevation Method**	Calc from DEM (USGS 7.5 min or equiv.)

Well Depth ft. | **Depth Completed ft.** | **Date Well Completed**

Drilling Method

Drilling Fluid

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use

Casing Type **Joint** **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter **Weight** **Hole Diameter**

Open Hole from ft. to ft.

Screen
Diameter **Slot/Gauze** **Length** **Set Between**

Geological Material **Color** **Hardness** **From** **To**

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Department of Health
Method GPS Differentially Corrected
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 458593 **Y:** 5360763

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification

First Bedrock
Last Strat
Aquifer
Depth to Bedrock ft.

License Business Name Lic. Or Reg. No. Name of Driller

STATE_02822374

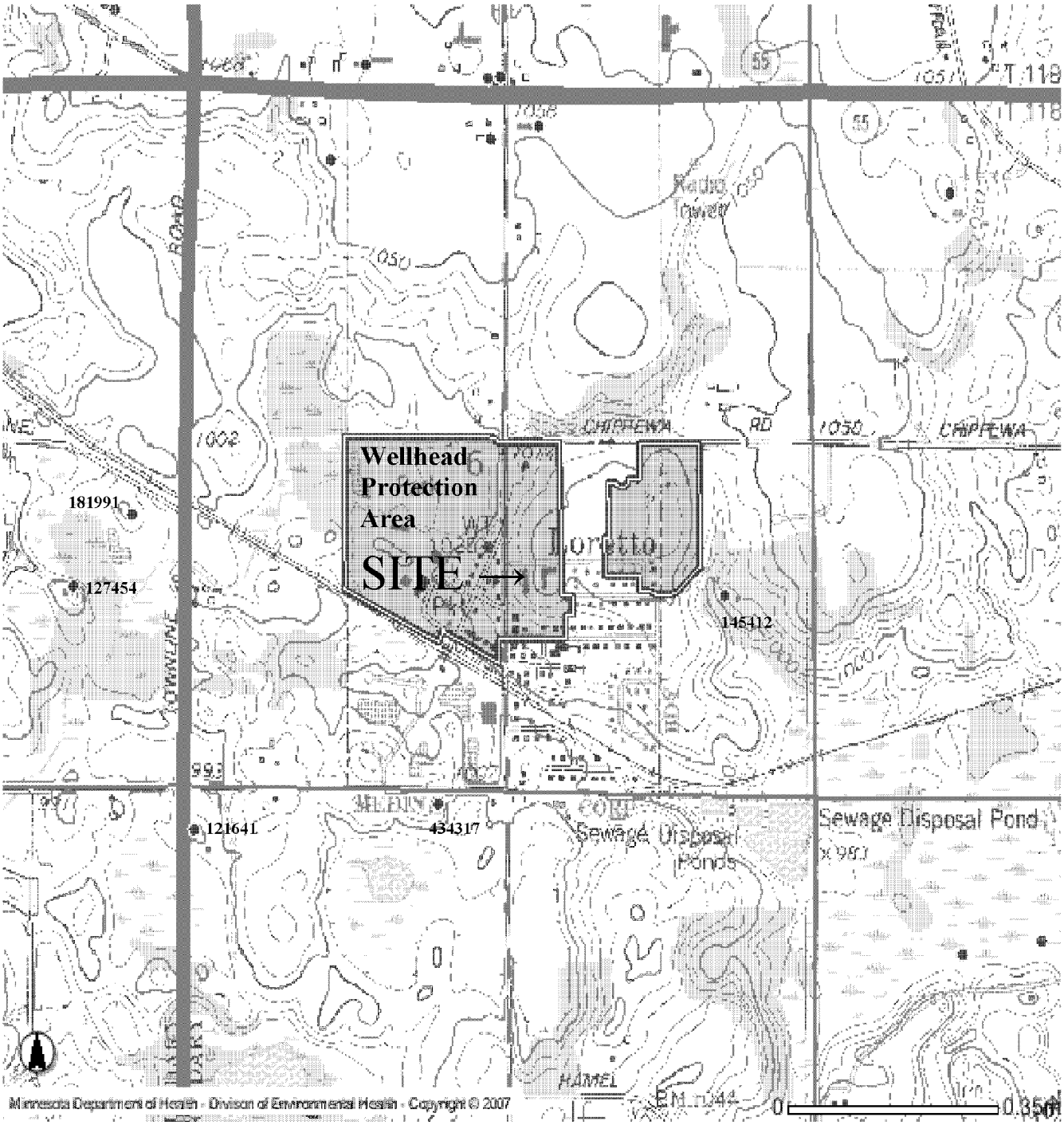
County Well Index Online Report	36W0020026	Printed 6/27/2008 HE-01205-07

SITE SUMMARY

Site Name:	Loretto
Fire Department:	Loretto Fire Department 259 N. Medina Street Loretto, MN 55357
Site Contact:	Jeff Leuer, Assistant Fire Chief 763-479-3036 lorettopublicworks@hotmail.com

Training Location:	259 Medina Street N., Loretto
Type of foam used in training:	AFFF: 3M
Foam training frequency:	Annually
Foam use per training event:	5 gallons
Spent foam destination:	Storm sewer
Annual foam use:	5 gallons
Nearest surface water:	Intermittent stream 1/4 to 1/3 mile northwest
Nearest wetland:	Approximately 1/4 mile northwest
Nearest water well:	1/4 to 1/3 mile east
Nearest Wellhead Protection Area:	Training site located in Wellhead Protection Area
SITE RANKING:	**18**

LORETTO CWI Well Map



Loretto *What's In My Neighborhood* Map



Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

Minnesota Pollution Control Agency

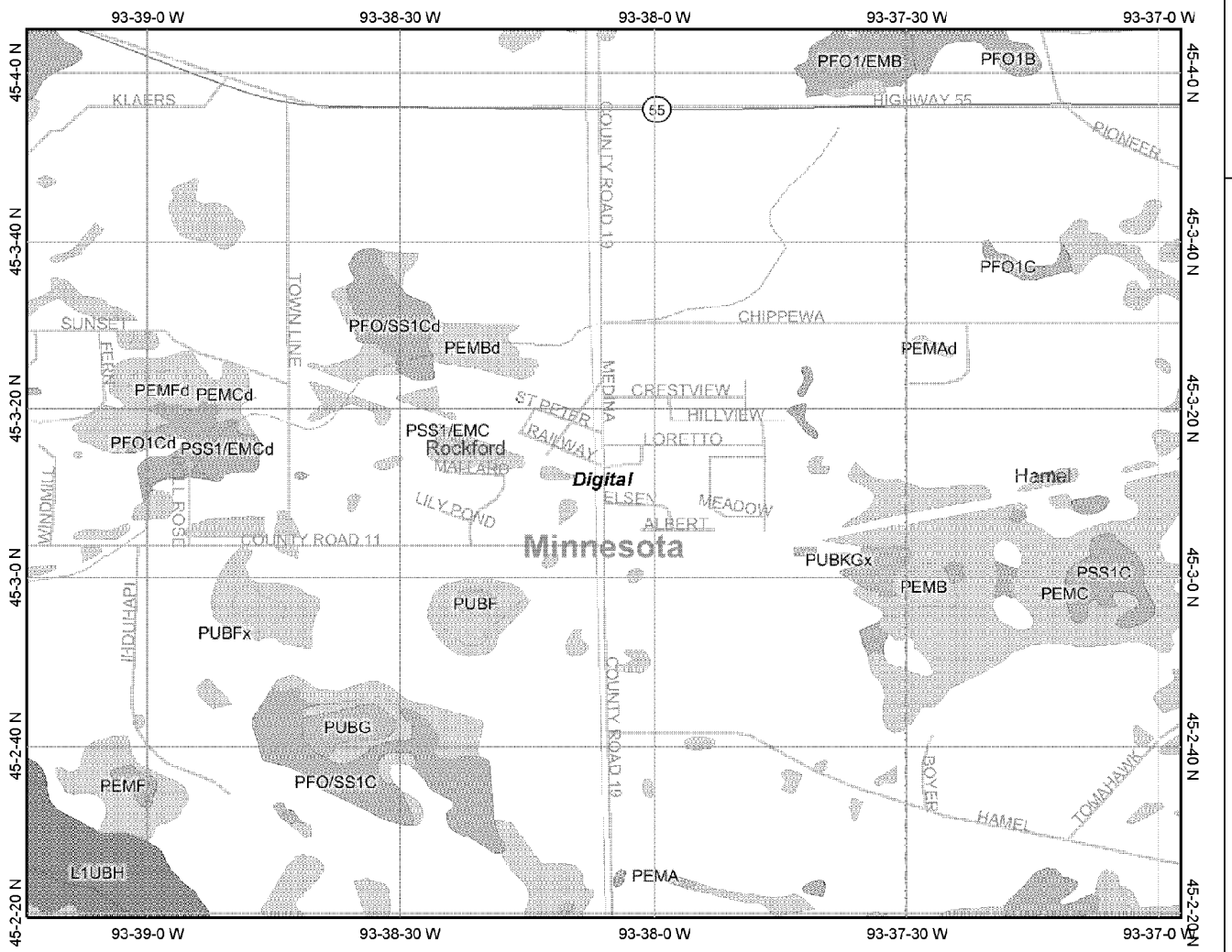
Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

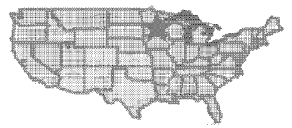
STATE_02822378

2222.1421

Loretto



Map center: 45° 3' 12" N, 93° 38' 6" W



Legend

Ohio_wet_scan
- 0
- 1
- Out of range

Interstate

Major Roads
- Other Road
- Interstate
- State highway
- US highway

Roads

Cities

USGS Quad Index 24K

Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan

NHD Streams

Counties 100K

States 100K
- South America
- North America

Scale: 1:22,823

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

2222.1422

STATE_02822379

Minnesota Unique Well No.
121641

County Hennepin
Quad Rockford
Quad ID 121C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/24/1991
Update Date 07/24/2003
Received Date

Well Name GLEN FRY
Township Range Dir Section Subsections Elevation 1001 ft.
118 23 W 7 BBBBCC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
158 ft.	158 ft.	04/30/1979

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 1 ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 152 ft.	11 lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
	12	4	152 ft. and 158 ft.

Static Water Level
65 ft. from Land surface Date Measured 04/30/1979

PUMPING LEVEL (below land surface)
65 ft. after 2 hrs. pumping 25 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
4975 11 CR
MAPLE PLAIN MN

Geological Material	Color	Hardness	From	To
CLAY	YELLOW	MEDIUM	0	22
CLAY	GRAY	MEDIUM	22	142
WATER SAND	GRAY	SOFT	142	158

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Bentonite from 0 to 20 ft.

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number
Verification Information from owner
Date N/A

System *UTM - Nad83, Zone15, Meters* **X:** 449164 **Y:** 4988735

Nearest Known Source of Contamination
60 feet S direction Septic tank/drain field type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed
Manufacturer's name STA-RITE Model number ___ HP 1 Volts 220
Length of drop Pipe 90 ft. Capacity 15 g.p.m
Type Submersible Material Plastic

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Drillco 27264 URAN, J.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **121641** | Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
127454

County Hennepin
Quad Rockford
Quad ID 121C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 08/24/1991
Update Date 09/11/1991
Received Date

Well Name STEVE KVISTAD
Township Range Dir Section Subsections Elevation 1010 **ft.**
118 24 W 1 DACCAD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
140 **ft.**	140 **ft.**	07/30/1984

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 136 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	10	4	136 ft. and 140 ft.

Well Address
5082 FERN DR
INDEPENDENCE MN

Geological Material	Color	Hardness	From	To
CLAY			0	50
SAND + GRAVEL			50	140

Static Water Level
75 ft. from Land surface Date Measured 07/30/1984

PUMPING LEVEL (below land surface)
75 ft. after hrs. pumping 20 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 448847 **Y:** 4989295

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed
Manufacturer's name PIONEER Model number ___ HP 0.75 Volts 230
Length of drop Pipe 95 ft. Capacity 12 g.p.m
Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Stodola Don Well Co. 27172
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand
Aquifer Quat. Buried Unconf. Aquife
Depth to Bedrock **ft.**

STATE_02822381

2222.1424

County Well Index Online Report	127454	Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
145412

County Hennepin
Quad Rockford
Quad ID 121C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/24/1991
Update Date 02/04/2004
Received Date

Well Name DEMPSEY, MARK
Township Range Dir Section Subsections Elevation 1010 **ft.**
118 23 W 6 DADCCB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
220 ft.	220 ft.	07/27/1978

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 1 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 216 ft.	11 lbs./ft.	6.75 in. to 216 ft.
		4 in. to 220 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOIINSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	15	0	216 ft. and 220 ft.

Well Address
4200 HLINE RD
LORETTO MN

Geological Material	Color	Hardness	From	To
CLAY	YELLOW	MEDIUM	0	5
CLAY	BLUE	MEDIUM	5	158
CLAY	RED	MEDIUM	158	199
WATER SAND	BROWN	SOFT	199	220

Static Water Level
95 ft. from Land surface Date Measured 07/26/1978

PUMPING LEVEL (below land surface)
109 ft. after 4 hrs. pumping 354 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Bentonite from 0 to 216 ft.
Grout Material: Cuttings from to ft.

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number
Verification Information from neighbor
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 450557 **Y:** 4989273

Nearest Known Source of Contamination
50 feet North West direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☑ Not Installed Date Installed 08/01/1978
Manufacturer's name MCDONALD Model number 1607563 B
HP 1 Volts 220
Length of drop Pipe 138 ft. Capacity 16 g.p.m Type Submersible Material Steel (black or low carbon)

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Ruppert & Son 27086 RUPPERT, G.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-brown
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **145412** | Printed 6/27/2008 HE-01205-07

STATE_02822383

2222.1426

Minnesota Unique Well No.
181991

County Hennepin
Quad Rockford
Quad ID 121C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 08/24/1991
Update Date 09/11/1991
Received Date

Well Name TERRY BROWN

Township	Range	Dir	Section	Subsections	Elevation
118	24	W	1	DAACCA	1000 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
170 ft.	170 ft.	11/19/1981

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 150 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** other

Diameter	Slot/Gauze	Length	Set Between
2	20	4	150 ft. and 154 ft.

Well Address
4875 SUNSET LA
INDEPENDENCE MN 55357

Geological Material	Color	Hardness	From	To
CLAY	BROWN	SOFT	0	20
SANDY CLAY	BROWN	SOFT	20	40
SANDY CLAY	BROWN	SOFT	40	60
SANDY CLAY	BROWN	SOFT	60	70
FAIR SAND	BROWN	SOFT	70	75
CLAY	GRAY	SOFT	75	145
GOOD SAND + GRAVEL	GRAY	SOFT	145	158
CLAY	GRAY	MEDIUM	158	170

Static Water Level
68 ft. from Land surface Date Measured 11/19/1981

PUMPING LEVEL (below land surface)
69 ft. after hrs. pumping 15 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 449001 **Y:** 4989460

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed
Manufacturer's name FAIRBANKS MORSE Model number ___ HP 0.5 Volts 230
Length of drop Pipe 100 ft. Capacity _g.p.m
Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

First Bedrock
Last Strat Till-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

Well Contractor Certification
Ingleside Engr. 27355
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report

181991

Printed 6/27/2008
HE-01205-07

STATE_02822384

2222.1427

Minnesota Unique Well No.
434317

County Hennepin
Quad Rockford
Quad ID 121C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 08/24/1991
Update Date 07/24/2003
Received Date

Well Name VARNEY, JEFF

Township	Range	Dir	Section	Subsections	Elevation
118	23	W	7	BAABBD	1020 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
168 ft.	168 ft.	05/28/1987

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 153 ft.	1.89 lbs./ft.	4 in. to 168 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	15		ft. and ft.

Well Address
4625 11 CR
MEDINA MN

Geological Material	Color	Hardness	From	To
CLAY			0	110
GRAVEL			110	155
WATER SAND			155	168

Static Water Level
98 ft. from Land surface Date Measured 05/28/1987

PUMPING LEVEL (below land surface)
115 ft. after 3 hrs. pumping 12 g.p.m.

Well Head Completion
Pitless adapter manufacturer WHITEWATER Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Neat Cement from 0 to 153 ft.

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Address verification
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 449805 **Y:** 4988794

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☑ Not Installed Date Installed 07/21/1987
Manufacturer's name MYERS Model number __ HP 1 Volts
Length of drop Pipe 132 ft. Capacity _g.p.m
Type Submersible Material Plastic

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Torgerson Well Co. 27056 OTTEN, D.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **434317** | Printed 6/27/2008 IIE-01205-07

STATE_02822385

2222.1428

SITE SUMMARY

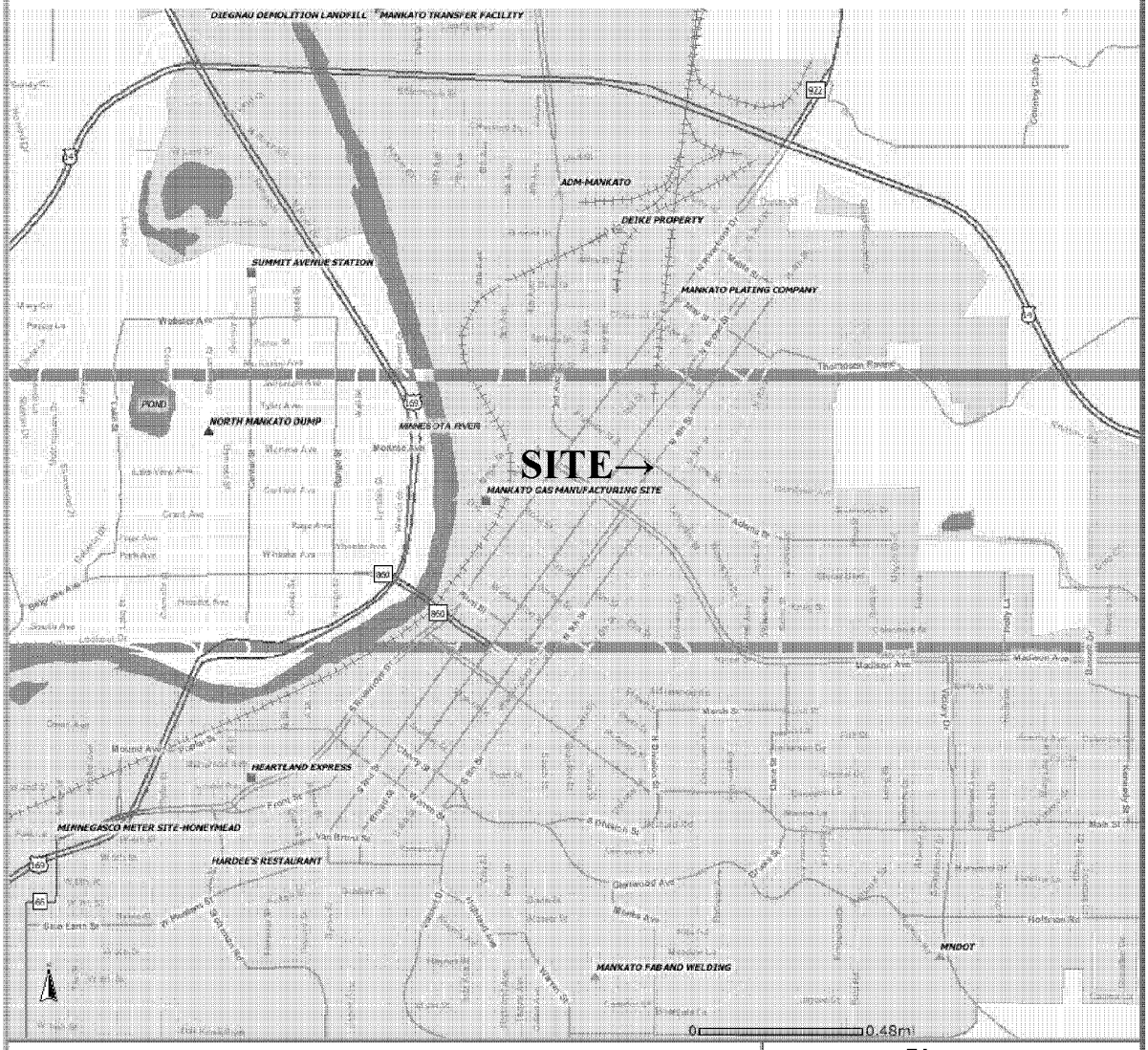
Site Name:	Mankato
Fire Department:	Mankato Fire Department 710 Front STreet Mankato, MN 56001
Site Contact:	Al Ratzloff, Deputy Director, Fire 507-387-8703 aratzloff@city.mankato.mn.us

Training Location:	Fire station #1, 300 Madison Avenue, Mankato
Type of foam used in training:	AFFF: 3M, historical use AR-AFFF: Angus Alcoseal, current use Class A: Ansul Silv-ex, current use
Foam training frequency:	Annually
Foam use per training event:	5 to 10 gallons
Spent foam destination:	Storm sewer
Annual foam use:	AFFF: 5 to 10 gallons, historical use AR-AFFF: 5 to 10 gallons, current use Class A: 5 gallons
Nearest surface water:	Minnesota River 1/2 to 2/3 mile west
Nearest wetland:	More than 1 mile
Karst Area:	Training site appears to be in an active karst area
Nearest water well:	Approximately 1/2 mile west
Nearest Wellhead Protection Area:	More than 1 mle
SITE RANKING:	**19**

MANKATO CWI Well Map



Mankato *What's In My Neighborhood* Map



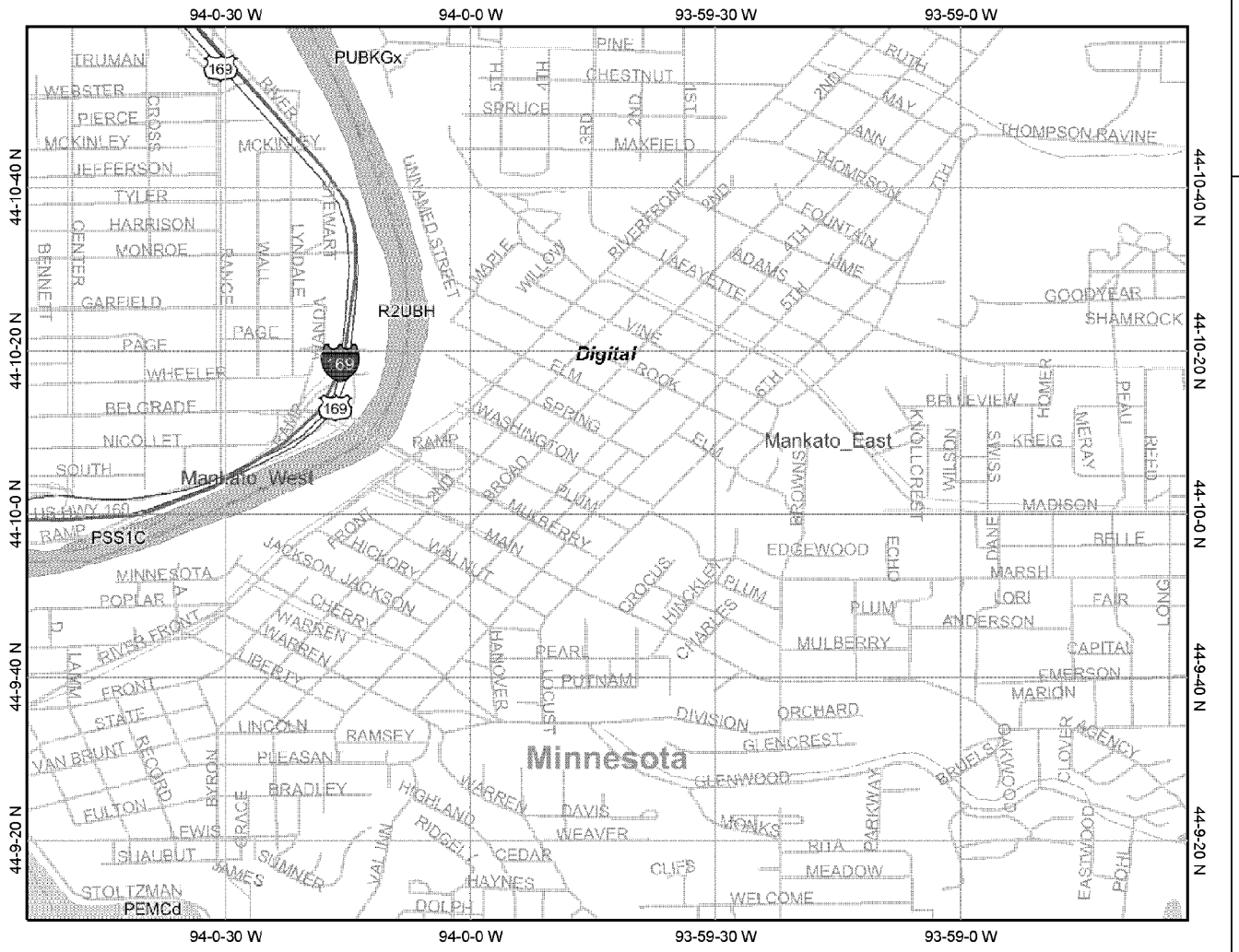
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Minnesota Pollution Control Agency

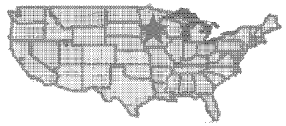
Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

Mankato



Map center: 44° 10' 5" N, 93° 59' 43" W



Legend

Ohio_wet_scan
- 0
- 1
- Out of range

Interstate

Major Roads
- Other Road
- Interstate
- State highway
- US highway

Roads

Cities

USGS Quad Index 24K

Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan

NHD Streams

Counties 100K

States 100K

South America

North America

Scale: 1:23,646

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

2222.1432

STATE_02822389

Minnesota Unique Well No.
209390

County Blue Earth
Quad Mankato East
Quad ID 55B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 06/17/1997
Update Date 07/07/1997
Received Date

Well Name STANDARD BREWING CO.
Township Range Dir Section Subsections Elevation 778 **ft.**
108 26 W 7 CAAADC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
525 **ft.**	525 **ft.**	1903

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Industrial

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
10 in. to ft.	lbs./ft.	

Well Address
MANKATO MN 56001

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
DRIFT			0	110
SANDSTONE			110	111
UNKNOWN			111	300
SANDSTONE			300	301
UNKNOWN			301	525

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
0 ft. after hrs. pumping 50 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
COPIED FROM U.S.G.S.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Information from neighbor
Date N/A

System *UTM - Nad83, Zone15, Meters*
X: 420049 **Y:** 4891604

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
United States Geological Survey USGS
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Franconia
Last Strat Cambrian,Undifferentiated
Aquifer
Depth to Bedrock 110 **ft.**

County Well Index Online Report

209390

Printed 6/27/2008
HE-01205-07

Minnesota Unique Well No.
255277

County Blue Earth
Quad Mankato East
Quad ID 55B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 05/15/2000
Update Date 03/11/2005
Received Date

Well Name MANKATO-KASOTA STONE 1
Township Range Dir Section Subsections Elevation 790 **ft.**
108 26 W 7 ACACCB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
90 **ft.**	90 **ft.**	

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Commercial

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
5 in. to ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
MANKATO MN 56001

Geological Material	Color	Hardness	From	To
NO RECORD			0	90

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
MANIFOLDED WITH WELL NO.2.
WELL PUMPED AT 65 GPM.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number
Verification Information from neighbor
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 420320 **Y:** 4891889

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Minnesota Dept. of Natural Resources MNDNR
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Indeterminate
Last Strat
Aquifer Indeterminate
Depth to Bedrock ft.

County Well Index Online Report

255277

Printed 6/27/2008
HE-01205-07

Minnesota Unique Well No.
255278

County Blue Earth
Quad Mankato East
Quad ID 55B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 05/15/2000
Update Date 04/03/2008
Received Date

Well Name MANKATO-KASOTA STONE 2

Township	Range	Dir	Section	Subsections	Elevation
108	26	W	7	ACACCD	790 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
260 ft.	260 ft.	

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Commercial

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** ft.

Casing Diameter	Weight	Hole Diameter
6 in. to ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
MANKATO MN 56001

Geological Material	Color	Hardness	From	To
NO RECORD			0	260

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
MANIFOLDED WITH WELL NO.1.
PUMPED AT 225 GPM.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)

Unique Number
Verification Information from neighbor
Date N/A

System *UTM - Nad83, Zone15, Meters*
X: 420361 **Y:** 4891897

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Minnesota Dept. of Natural Resources MNDNR
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat No Record
Aquifer Indeterminate
Depth to Bedrock ft.

County Well Index Online Report | **255278** | Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
255877

County Blue Earth
Quad Mankato West
Quad ID 56A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 12/04/2002
Update Date 03/11/2005
Received Date

Well Name MANKATO COLD STORAGE
Township Range Dir Section Subsections Elevation 785 **ft.**
108 26 W 7 CAABAB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
580 **ft.**	580 **ft.**	10/18/1945

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
12 in. to 68 ft.	lbs./ft.	
8 in. to 110 ft.	lbs./ft.	

Open Hole from 116 ft. to 580 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
-21 ft. from Land surface Date Measured 10/18/1945

PUMPING LEVEL (below land surface)
ft. after hrs. pumping 60 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
216 ELM ST W
MANKATO MN 56001

Geological Material	Color	Hardness	From	To
SAND, CLAY, AND GRAVEL			0	68
LIMEROCK			68	110
HARDROCK & SHALE			110	260
SANDROCK			260	340
SHALE & SANDROCK			340	475
SANDROCK			475	580

REMARKS
WELL DRILLED BY BENSON AND BERGREN.
SEALED UNDER #H193433.

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Neat Cement from 0 to 110 ft.

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number
Verification Information from owner
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 420015 **Y:** 4891642

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Minnesota Geological Survey MGS
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock St.Lawrence
Last Strat Mt.Simon
Aquifer Multiple
Depth to Bedrock 68 **ft.**

County Well Index Online Report

255877

Printed 6/27/2008
HE-01205-07

Minnesota Unique Well No.
587207

County Blue Earth
Quad Mankato West
Quad ID 56A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 11/11/1997
Update Date 01/16/2003
Received Date

Well Name MANKATO CITIZENS TELE.
Township Range Dir Section Subsections Elevation 792 **ft.**
108 26 W 18 BACACB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
55 ft.	55 ft.	11/11/1996

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Elevator

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☑ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
20 in. to 55 ft.	78.6 lbs./ft.	

Open Hole from ft. to ft.

Screen **Make** **Type**
Diameter **Slot/Gauze** **Length** **Set Between**

Well Address
215 HICKORY ST E
MANKATO MN

Geological Material	Color	Hardness	From	To
PIT			0	13
SAND	BROWN	SOFT	13	41
SHALE	GRAY	HARD	41	55

Static Water Level
23 ft. from Land surface Date Measured 11/11/1997

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Neat Cement from 53 to 55 ft. 3 bags

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number
Verification Address verification
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 419866 **Y:** 4890596

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP _ Volts
Length of drop Pipe _ft. Capacity __g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Midwest Drilling L0004 FULTON, W.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock St.Lawrence
Last Strat St.Lawrence
Aquifer St.Lawrence
Depth to Bedrock 41 **ft.**

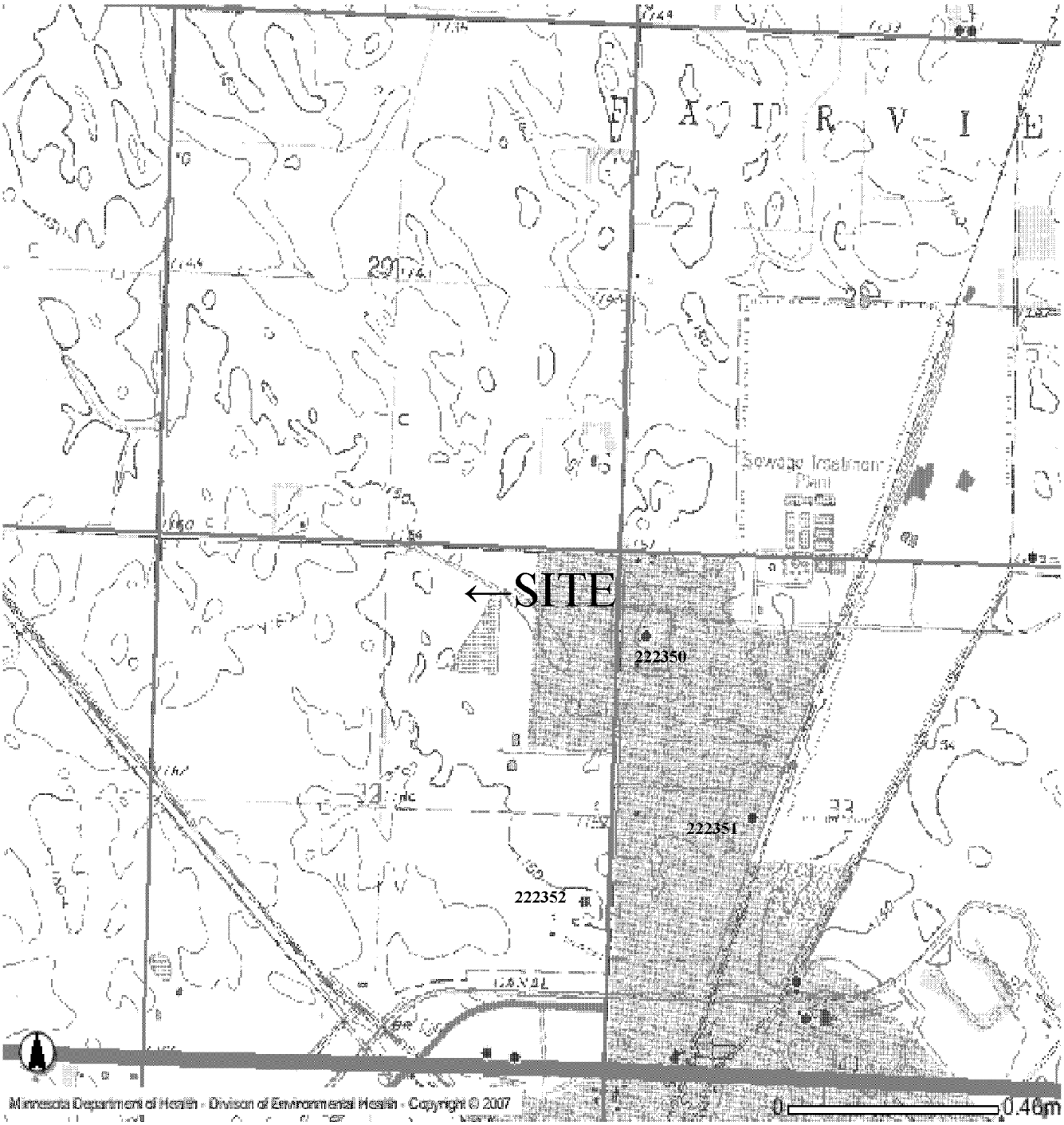
County Well Index Online Report **587207** Printed 6/27/2008 HE-01205-07

SITE SUMMARY

Site Name:	Marshall
Fire Department:	Marshall Fire Department 201 E. Saratoga Marshall, MN 56258
Site Contact:	Marc Klaith, Fire Chief 507-532-5141 marshallfire@iw.net

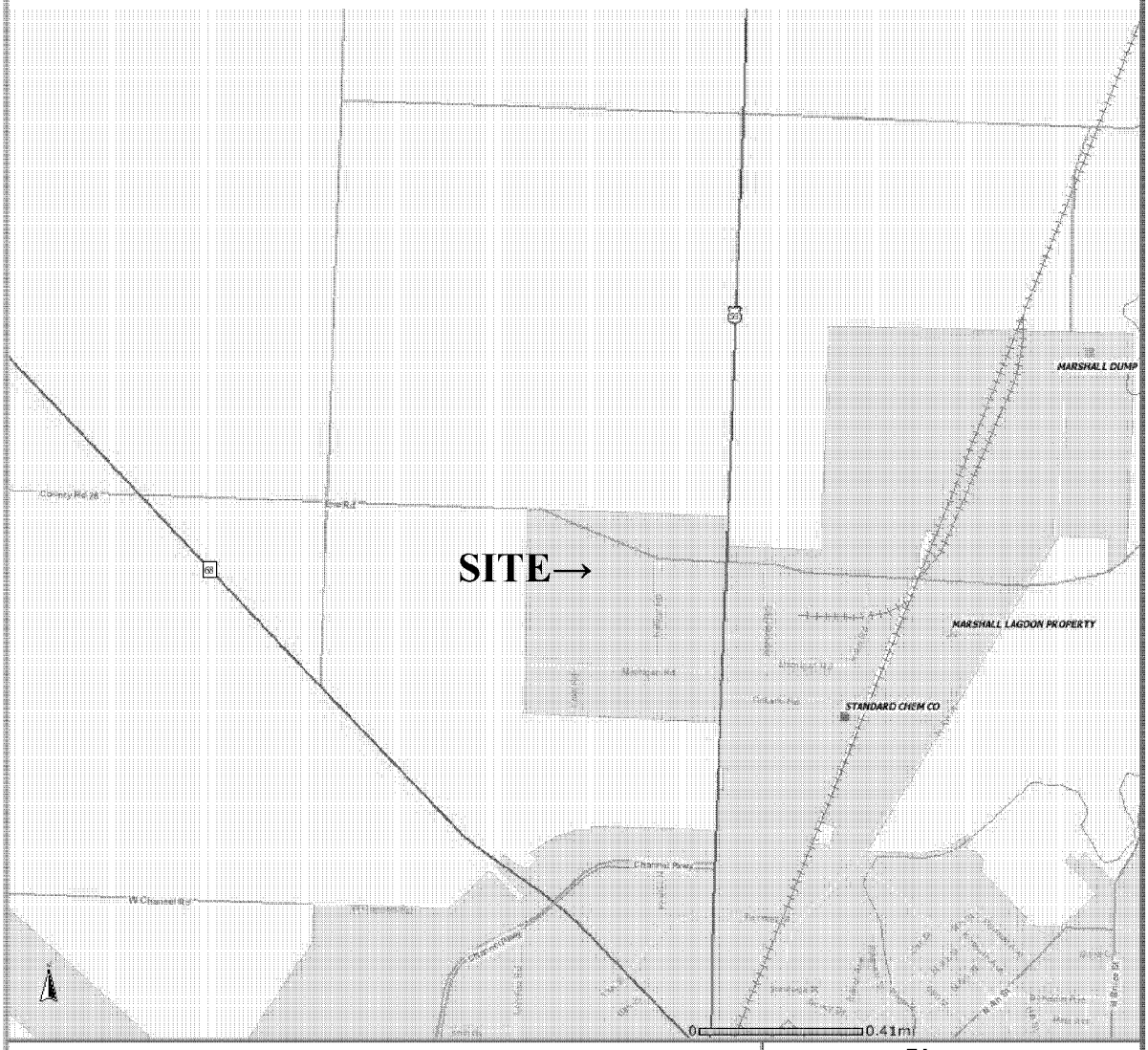
Training Location:	Marshall Merrit Center, County Road 33 (1001 W. Erie Road), Marshall
Type of foam used in training:	AR-AFFF: 3M, use in training not specified Training foam: Trainol
Foam training frequency:	Quarterly
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Ground
Annual foam use:	AR-AFFF: not specified Class A: not specified Training foam: 15 gallons
Nearest surface water:	On or adjacent to site
Nearest wetland:	On or adjacent to site
Nearest water well:	1/4 to 1/2 mile east
Nearest Wellhead Protection Area:	More than 1 mle
SITE RANKING:	**21**

MARSHALL CWI Well Map



STATE_02822396

Marshall *What's In My Neighborhood* Map



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Minnesota Pollution Control Agency

Sites

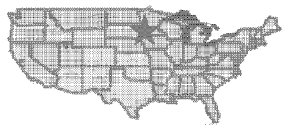
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- Permitted Solid Waste
- Unpermitted Dumps
- NFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

STATE_02822397

Marshall Wetland Map



Map center: 44° 28' 5" N, 95° 48' 1" W



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:50,563

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2222.1441

STATE_02822398

Minnesota Unique Well No.
222350

County Lyon
Quad Marshall
Quad ID 82A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/11/1988
Update Date 10/24/1992
Received Date

Well Name HAHM, TIM
Township Range Dir Section Subsections Elevation 1151 **ft.**

112	41	W	33	BBCBDA	**Elevation Method**	7.5 minute topographic map (+/- 5 feet)

Well Depth	**Depth Completed**	**Date Well Completed**
114 **ft.**	114 **ft.**	00/00/1956

Drilling Method --

Geological Material	**Color**	**Hardness**	**From**	**To**
TOPSOIL & CLAY			0	12
SANDY CLAY			12	32
CLAY			32	61
FINE SAND & CLAY WATER BEARING			61	70
CLAY (FEW PEBBLES)			70	114

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	**Weight**	**Hole Diameter**
0 in. to 67 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** **Type**

Diameter	**Slot/Gauze**	**Length**	**Set Between**

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Information from owner **Date** N/A

System *UTM - Nad83, Zone15, Meters* **X:** 277655 **Y:** 4927863

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP 0 Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
United States Geological Survey USGS
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Pebbly sand/silt/clay
Aquifer Quaternary Undiff.
Depth to Bedrock ft.

County Well Index Online Report **222350** Printed 6/27/2008 HE-01205-07

STATE_02822399

Minnesota Unique Well No.
222351

County Lyon
Quad Marshall
Quad ID 82A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/11/1988
Update Date 10/24/1992
Received Date

Well Name ALFALFA PELLET PLANT
Township Range Dir Section Subsections Elevation 1152 **ft.**
112 41 W 33 BDCCDD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
86 ft.	86 ft.	00/00/1963

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
5 in. to 84 ft.	lbs./ft.	

Well Address
MARSHALL MN 56258

Open Hole from ft. to ft.

Screen **Make** **Type**
Diameter **Slot/Gauze** **Length** **Set Between**

Geological Material	Color	Hardness	From	To
CLAY	YELLOW		0	18
SAND SOUPY			18	66
SHALE	GRAY		66	85
THIN LAYER SANDSTONE & FINE SAND	GREEN		85	86

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Information from owner
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 278029 **Y:** 4927304

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Minett Well Drilling 59234
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Cretaceous,Undiff.
Last Strat Cretaceous,Undiff.
Aquifer Cretaceous,Undiff.
Depth to Bedrock 66 **ft.**

County Well Index Online Report
222351
Printed 6/27/2008
HE-01205-07

Minnesota Unique Well No.
222352

County Lyon
Quad Marshall
Quad ID 82A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/11/1988
Update Date 10/24/1992
Received Date

Well Name SONSTEGARD, GOODWIN
Township Range Dir Section Subsections Elevation 1151 **ft.**
112 41 W 32 DADACA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
76 **ft.**	76 **ft.**	00/00/1974

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
6 in. to 76 ft.	lbs./ft.	

Well Address
MARSHALL MN 56258

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
CLAY & ROCKS	YELLOW		0	25
CLAY TO SHALE	GRAY		25	60
LAYERS OF FINE SAND & SHALE	TAN		60	75
WATER, FINE SAND	GREEN		75	76

Static Water Level
20 ft. from Land surface Date Measured 1974

PUMPING LEVEL (below land surface)
40 ft. after hrs. pumping 5 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Name on mailbox
Date N/A
System *UTM - Nad83, Zone15, Meters* **X:** 277440 **Y:** 4927045

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Minett Well Drilling 59234 MINETT, C.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Cretaceous,Undiff.
Aquifer Cretaceous,Undiff.
Last Strat Cretaceous,Undiff.
Depth to Bedrock 60 **ft.**

County Well Index Online Report | **222352** | Printed 6/27/2008 HE-01205-07

STATE_02822401

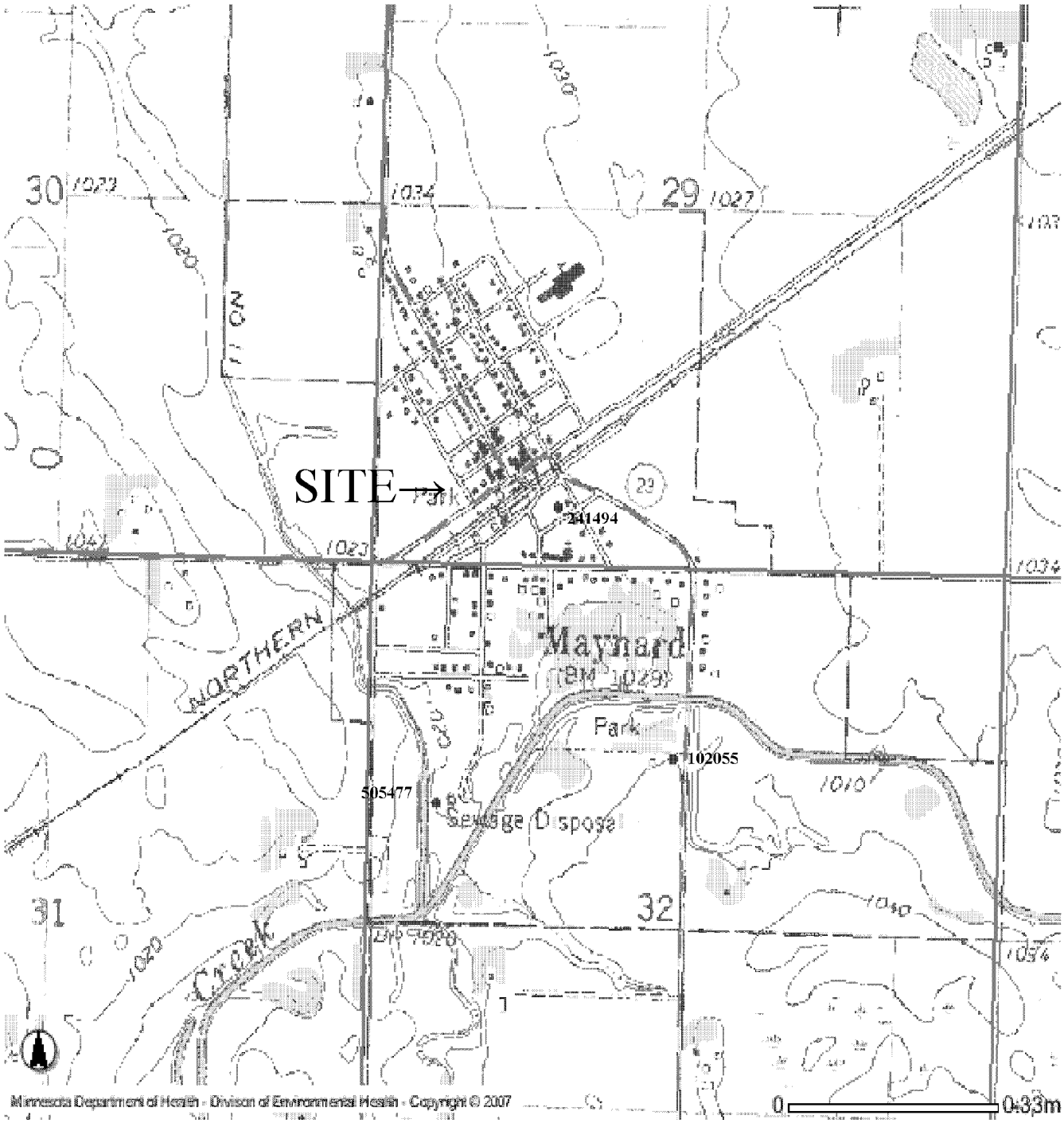
2222.1444

SITE SUMMARY

Site Name:	Maynard
Fire Department:	Maynard Fire Department PO Box 154 Maynard, MN 56260
Site Contact:	Steven Lindquist, Fire Chief 320-367-2140

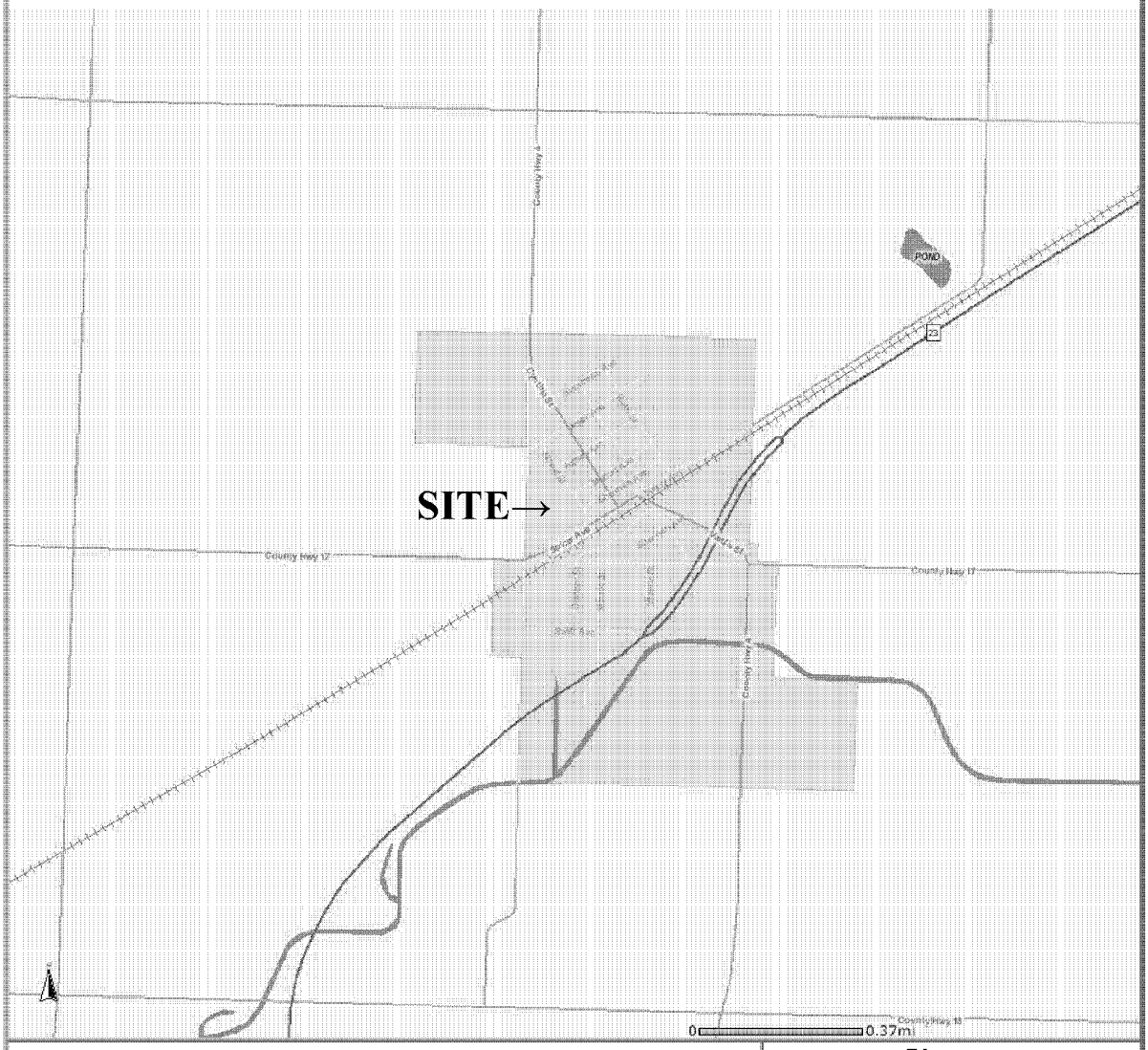
Training Location:	Mable Street and Sherman, Maynard
Type of foam used in training:	Other: Chemguard, historical use, type AFFF assumed Class A: Silv-ex, current use
Foam training frequency:	Bi-Annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Storm sewer
Annual foam use:	Other: not specified Class A: not specified
Nearest surface water:	Unidentified creek approximately 1/4 mile west
Nearest wetland:	1/4 to 1/2 mile southeast
Nearest water well:	Less than 1/4 mile east
Nearest Wellhead Protection Area:	More than 1 mile
SITE RANKING:	**7**

MAYNARD CWI Well Map



STATE_02822403

Maynard *What's In My Neighborhood* Map



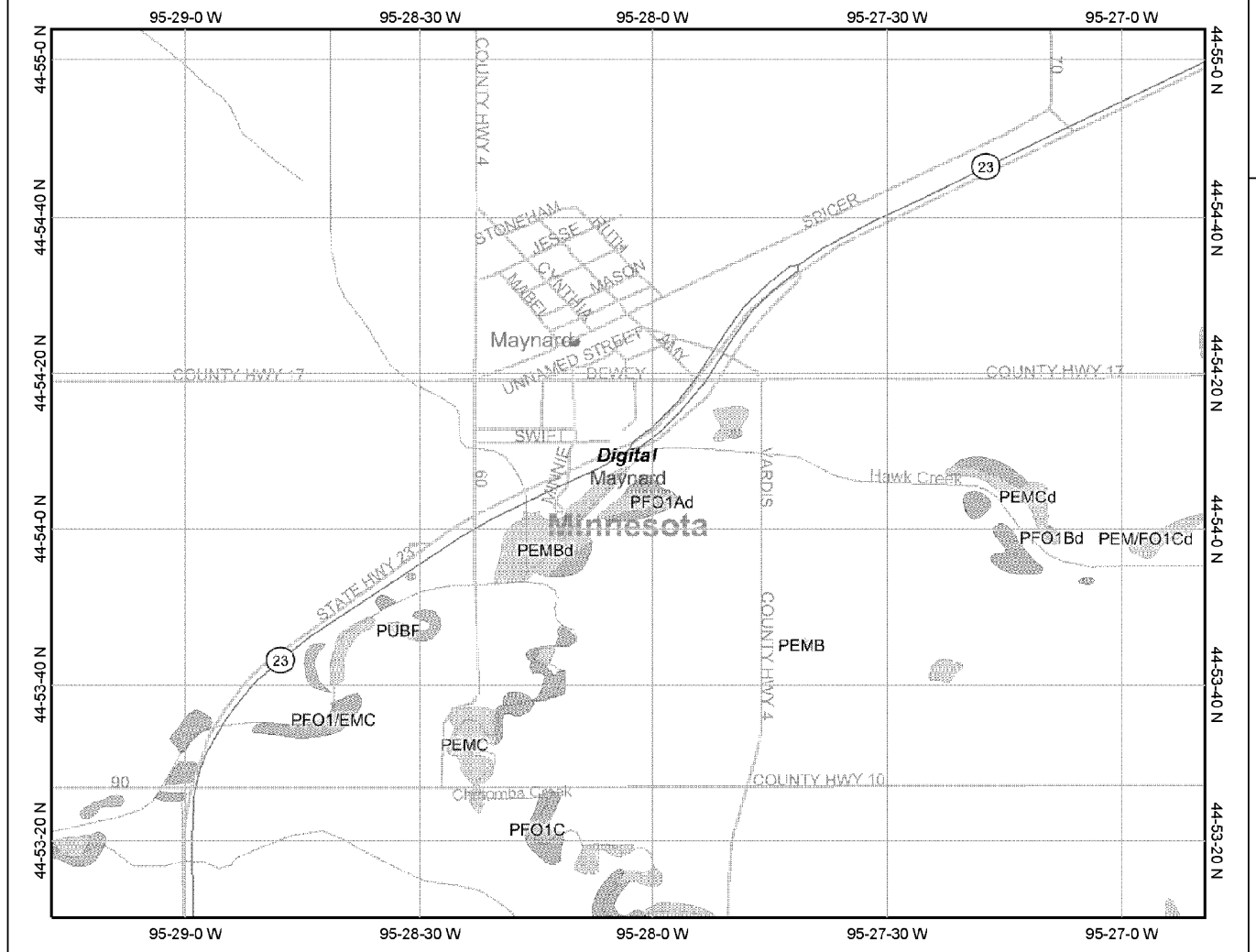
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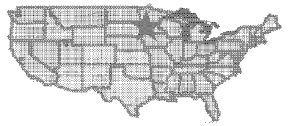
Minnesota Pollution Control Agency

Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

Maynard Wetland Map





Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:24,601

Map center: 44° 54' 7" N, 95° 28' 3" W

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Minnesota Unique Well No.
102055

County Chippewa
Quad Maynard
Quad ID 112B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/07/1988
Update Date 03/06/1997
Received Date

Well Name AEIKENS, MRS. HENRY
Township Range Dir Section Subsections Elevation 1030 **ft.**
117 38 W 32 BDAAAB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
98 **ft.**	94 **ft.**	00/00/1976

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
5 in. to 89 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** HOWARD SMITH **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	20	0	89 ft. and 94 ft.

Well Address

MAYNARD MN 56260

Geological Material	Color	Hardness	From	To
DIRT	BLACK		0	2
CLAY	YELLOW		2	15
CLAY	BLUE		15	16
SANDY CLAY	GRN/BLU		16	28
SANDY CLAY	BLUE		28	70
FINE SAND W/CLAY LAYERS			70	90
SAND			90	94
SANDY CLAY	BLUE		94	98

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☑ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Information from neighbor
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 305527 **Y:** 4974951

Nearest Known Source of Contamination
150 feet N direction Septic tank/drain field type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 03/30/1976
Manufacturer's name BURKS Model number 5SN8B HP 0.5 Volts 230
Length of drop Pipe 40 ft. Capacity 10 g.p.m Type Submersible Material Plastic

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Thein S.e. Well Co. 12013 WEIS, M.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Clay & sand-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report

102055

Printed 6/27/2008
HE-01205-07

STATE_02822406

2222.1449

Minnesota Unique Well No.
241494

County Chippewa
Quad Maynard
Quad ID 112B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 09/17/1992
Update Date 05/06/2005
Received Date

Well Name MAYNARD 2
Township Range Dir Section Subsections Elevation 1026 **ft.**
117 38 W 29 **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
87 **ft.**	87 **ft.**	00/00/1951

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
12 in. to ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
MAYNARD MN 56260

Geological Material	Color	Hardness	From	To
NO RECORD			0	87

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
WELL SEALED 06-04-2004 BY 34625
ORIGINAL USE PC - COMMUNITY SUPPLY

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Department of Health **Method** GPS SA On (averaged)
Unique Number Verification N/A **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 305234 **Y:** 4975514

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Submersible Material

2222.1450

STATE_02822407

	Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No
	Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No
First Bedrock **Aquifer** Quat. Buried Artes. Aquifer **Last Strat** Unknown deposit type **Depth to Bedrock** ft.	**Well Contractor Certification** Minnesota Department of Health MDH License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report	**241494**	Printed 6/27/2008 HE-01205-07

2222.1451

STATE_02822408

Minnesota Unique Well No.
505477

County Chippewa
Quad Maynard
Quad ID 112B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 01/28/1991
Update Date 03/06/1997
Received Date

Well Name WASTE WATER TRTMNT PLANT
Township Range Dir Section Subsections Elevation 1022 **ft.**
117 38 W 32 BCBDAD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
86 ft.	86 ft.	07/12/1989

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 1 **ft.**

Casing Diameter	Weight	Hole Diameter
6 in. to 66 ft.	lbs./ft.	10 in. to 86 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
6	12	20	66 ft. and 86 ft.

Static Water Level
7 ft. from Land surface Date Measured 07/12/1989

PUMPING LEVEL (below land surface)
30 ft. after hrs. pumping 200 g.p.m.

Well Head Completion
Pitless adapter manufacturer MAASS Model 6J2
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
MAYNARD MN 56260

Geological Material	Color	Hardness	From	To
LOAM	BLACK		0	2
CLAY	TAN	MEDIUM	2	24
CLAY	RED	HARD	24	26
CLAY	BLU/GRY	MEDIUM	26	29
GRAVEL	BROWN		29	30
CLAY	BLU/GRY	HARD	30	41
SAND	TAN		41	52
CLAY	BLUE		52	62
SAND			62	86

REMARKS
SCREEN: TOP 12-12-12-18 BOTTOM.

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Neat Cement from 0 to 66 ft. 2 yrds.

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Information from owner
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 304923 **Y:** 4974854

Nearest Known Source of Contamination
175 feet W direction Body of water type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 07/18/1989
Manufacturer's name A.Y. MCDONALD Model number K50
HP 0.5 Volts 230
Length of drop Pipe 42 ft. Capacity 10 g.p.m
Type Submersible Material Galvanized

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Steffl M.j. Well Co 34480 STEFFL, M.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

STATE_02822409

2222.1452

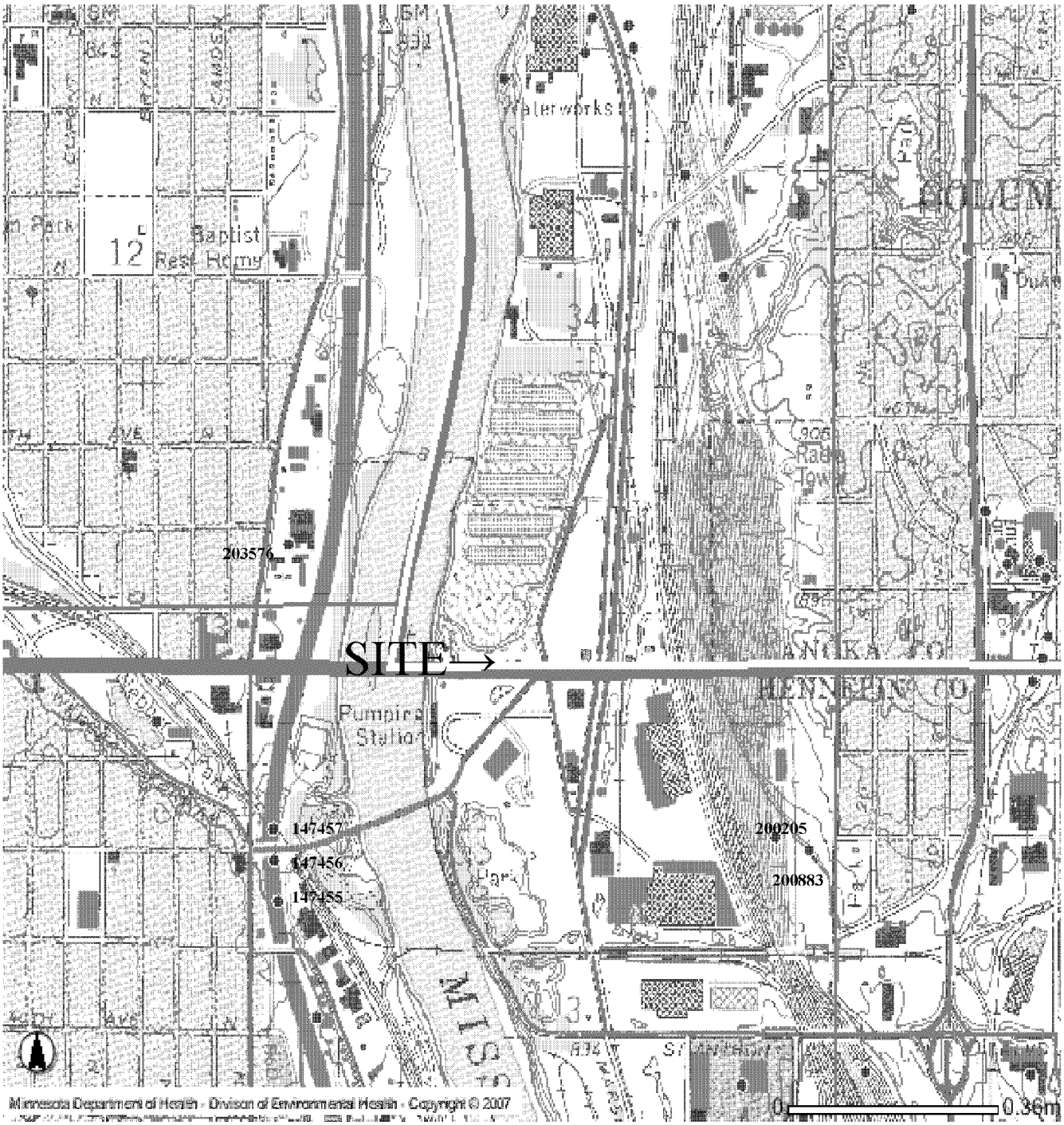
County Well Index Online Report	505477	Printed 6/27/2008 HE-01205-07

SITE SUMMARY

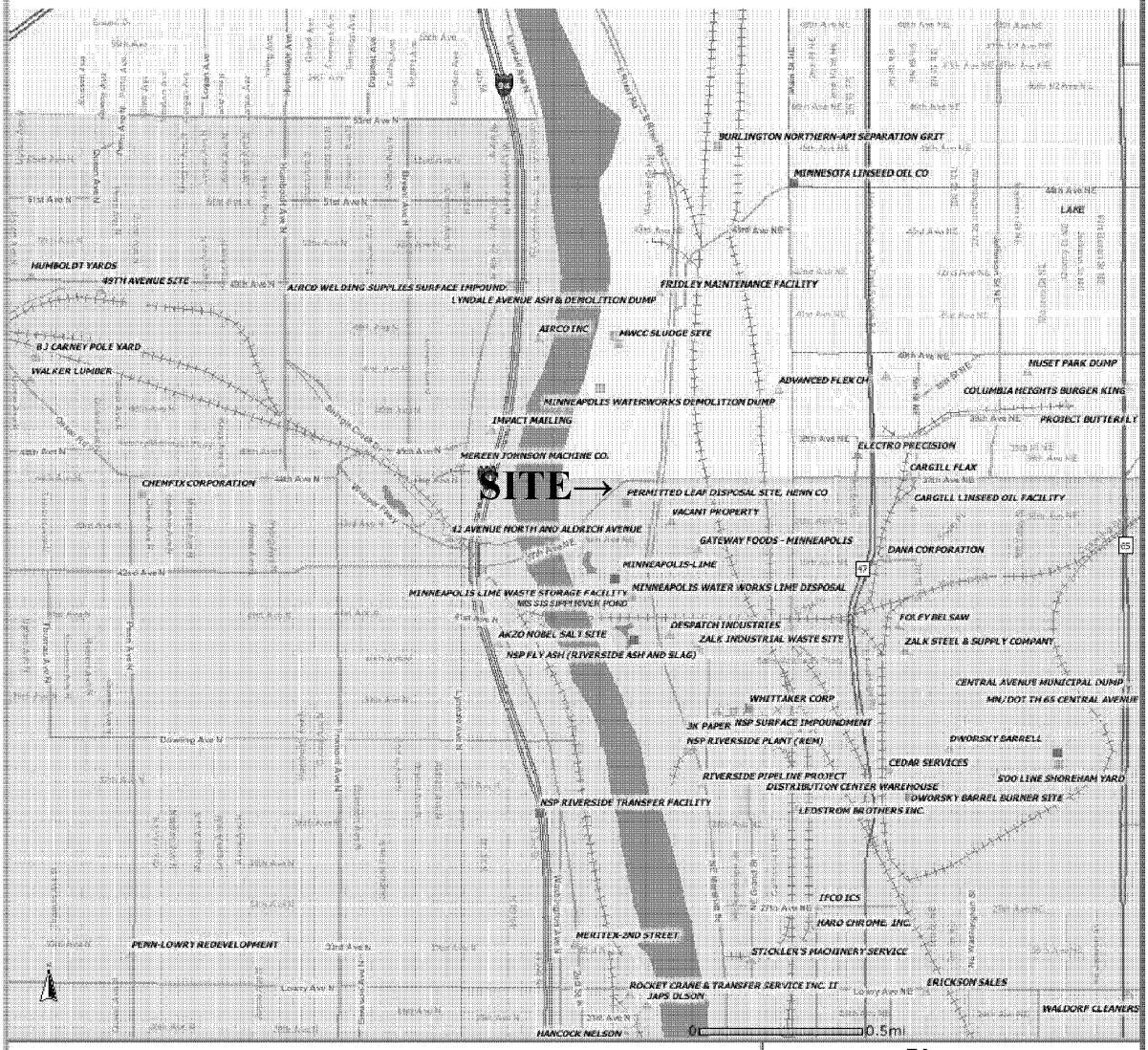
Site Name:	Minneapolis
Fire Department:	Minneapolis Fire Department Room 230, City Hall Minneapolis, MN 55415
Site Contact:	Walt Lee, Captain, Engineering Officer, Fire 350 S. 5th Street, Room 230 Minneapolis, MN 55415 612-673-2059 office 612-718-1859 cell walter.lee@ci.minneapolis.mn.us

Training Location:	25 37th Avenue NE, Minneapolis
Type of foam used in training:	AFFF: 3M Class A: Ansul
Foam training frequency:	Annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Ground
Annual foam use:	AFFF: approximately 5 gallons AR-AFFF: not specified Class A: approximately 5 gallons
Nearest surface water:	Mississippi River less than 1/4 mile west
Nearest wetland:	1/4 to 1/2 mile west
Karst Area:	Training site is located in a transition or covered karst area
Nearest water well:	Approximately 1/2 mile southeast
Nearest Wellhead Protection Area:	More than 1 mile
SITE RANKING:	**19**

MINNEAPOLIS CWI Well Map



Minneapolis *What's In My Neighborhood* Map



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Minnesota Pollution Control Agency

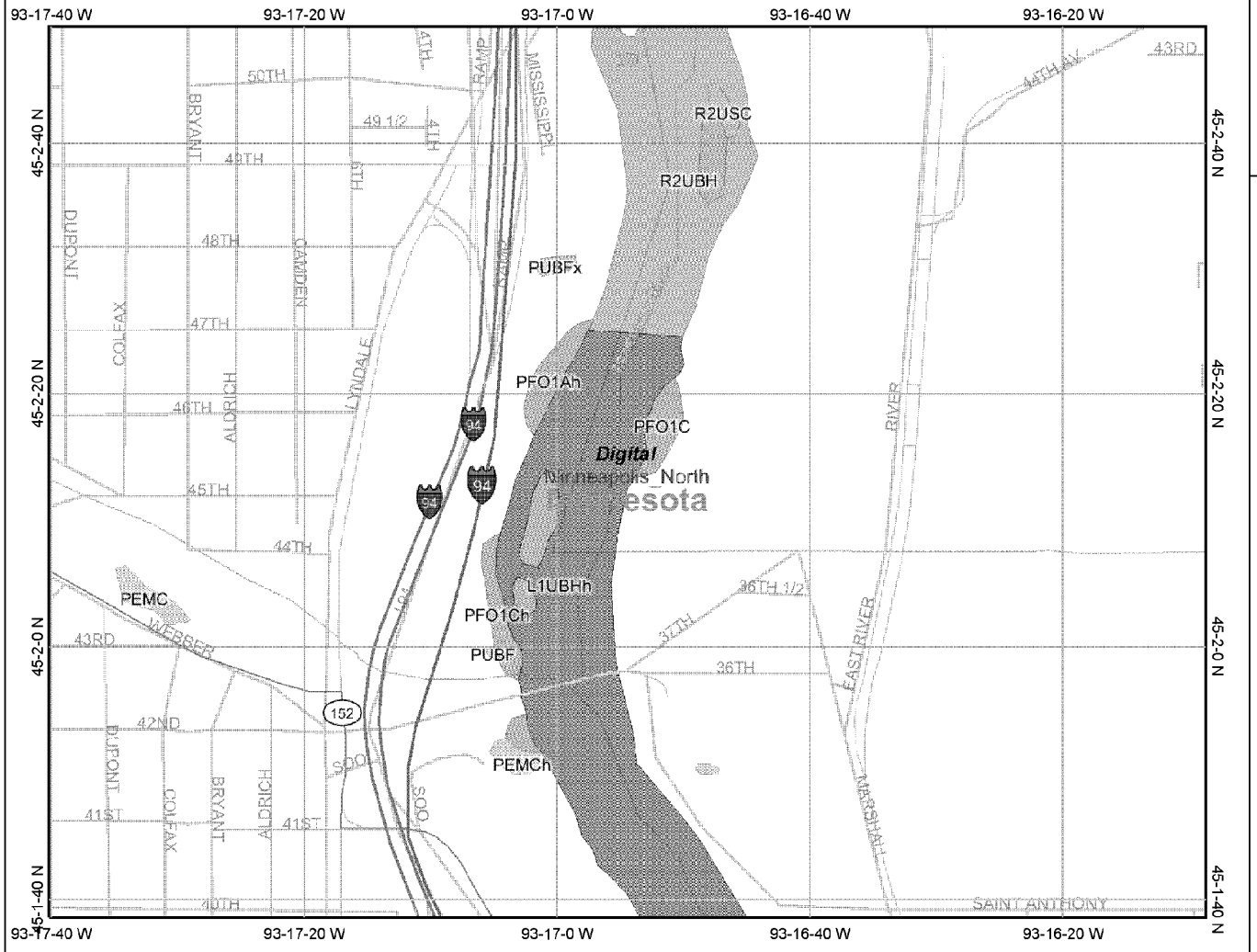
Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

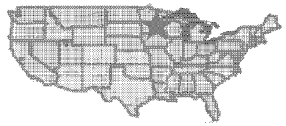
STATE_02822413

2222.1456

Minneapolis Wetland Map



Map center: 45° 2' 14" N, 93° 16' 54" W



Legend

Ohio_wet_scan
- 0
- 1
- Out of range

Interstate

Major Roads
- Other Road
- Interstate
- State highway
- US highway

Roads

Cities

USGS Quad Index 24K

Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan

NHD Streams

Counties 100K

States 100K

South America

North America

Scale: 1:15,236

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2222.1457

STATE_02822414

Minnesota Unique Well No.
147455

County Hennepin
Quad Minneapolis North
Quad ID 120D

MINNESOTA DEPARTMENT OF HEALTH WELL AND BORING RECORD

Minnesota Statutes Chapter 103I

Entry Date 08/24/1991
Update Date 09/11/1991
Received Date

Well Name M.D.O.T. WELL A
Township Range Dir Section Subsections Elevation 840 **ft.**
29 24 W 3 BCBCAD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
70 **ft.**	70 **ft.**	10/05/1985

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Other (specify in remarks)

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
24 in. to 17 ft.	lbs./ft.	
16 in. to 35 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
16		35	35 ft. and 70 ft.

Well Address

MINNEAPOLIS MN

Geological Material	Color	Hardness	From	To
ST. PETER SANDSTONE			0	70

Static Water Level
12 ft. from Land surface Date Measured 10/05/1982

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
CASING: 24 TO 17; 16 TO 35.
WELL SEALED AFTER PROJECT.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number
Verification Information from owner
Date N/A

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

System *UTM - Nad83, Zone15, Meters*
X: 477383 **Y:** 4986362

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP 0 Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Layne Well Co. 27010
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock St.Peter
Last Strat St.Peter
Aquifer St.Peter
Depth to Bedrock **ft.**

STATE_02822415

2222.1458

County Well Index Online Report	147455	Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
147456

County Hennepin
Quad Minneapolis North
Quad ID 120D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/24/1991
Update Date 09/11/1991
Received Date

Well Name M.D.O.T. WELL B
Township Range Dir Section Subsections Elevation 841 **ft.**
29 24 W 3 BCBBAD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
70 **ft.**	70 **ft.**	10/05/1982

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Other (specify in remarks)

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
24 in. to 17 ft.	lbs./ft.	
16 in. to 35 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
16		35	35 ft. and 70 ft.

Well Address

MINNEAPOLIS MN

Geological Material	Color	Hardness	From	To
ST PETER SANDSTONE			0	70

Static Water Level
12 ft. from Land surface Date Measured 10/05/1982

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
CASING: 24 TO 17; 16 TO 35.
WELL SEALED AFTER PROJECT.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number
Verification Information from owner
Date N/A

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

System *UTM - Nad83, Zone15, Meters*
X: 477372 **Y:** 4986461

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP 0 Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Layne Well Co. 27010
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock St.Peter
Last Strat St.Peter
Aquifer St.Peter
Depth to Bedrock **ft.**

STATE_02822417

County Well Index Online Report	147456	Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
147457

County Hennepin
Quad Minneapolis North
Quad ID 120D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/24/1991
Update Date 09/11/1991
Received Date

Well Name M.D.O.T. WELL C

Township	Range	Dir	Section	Subsections	Elevation
29	24	W	3	BBCCCA	836 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
70 ft.	70 ft.	10/05/1982

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Other (specify in remarks)

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 ft.

Casing Diameter	Weight	Hole Diameter
24 in. to 17 ft.	lbs./ft.	
16 in. to 35 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
16		35	35 ft. and 70 ft.

Well Address

MINNEAPOLIS MN

Geological Material	Color	Hardness	From	To
ST. PETER SANDSTONE			0	70

Static Water Level
12 ft. from Land surface Date Measured 10/05/1982

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
CASING: 24 TO 17; 16 TO 35.
WELL SEALED AFTER PROJECT.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number
Verification Information from owner
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 477370 **Y:** 4986537

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP 0 Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Layne Well Co. 27010
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock St.Peter
Last Strat St.Peter
Aquifer St.Peter
Depth to Bedrock ft.

STATE_02822419

2222.1462

County Well Index Online Report	147457	Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
200205

County Hennepin
Quad Minneapolis North
Quad ID 120D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/24/1991
Update Date 09/11/1991
Received Date

Well Name NORTHTOWN 2
Township Range Dir Section Subsections Elevation 845 **ft.**
29 24 W 3 AADCCA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
619 **ft.**	619 **ft.**	05/00/1913

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Industrial

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Well Address
MINNEAPOLIS MN

Casing Diameter	Weight	Hole Diameter
10 in. to 80 ft.	lbs./ft.	
8 in. to 195 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen **Make** **Type**
Diameter **Slot/Gauze** **Length** **Set Between**

Geological Material	Color	Hardness	From	To
CINDERS FILL			0	1
SAND			1	7
SOAPSTONE AND LIMESTONE			7	8
ST. PETER SANDSTONE			8	80
SHALE			80	125
ST. PETER SANDSTONE		HARD	125	175
SANDSTONE AND SHALE	BROWN		175	187
LIMESTONE AND SANDSTONE			187	270
SHALE AND SANDSTONE			270	525
SANDSTONE			525	605
SHALE AND SANDSTONE			605	619

Static Water Level
10 ft. from Land surface Date Measured 05/00/1913

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
CASING: 010 TO 0080;008 TO 0195.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 478750 **Y:** 4986516

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Platteville
Last Strat Cambrian,Undifferentiated
Aquifer Multiplc
Depth to Bedrock 7 **ft.**

County Well Index Online Report | **200205** | Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
200883

County Hennepin
Quad Minneapolis North
Quad ID 120D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 08/24/1991
Update Date 09/11/1991
Received Date

Well Name NORTHTOWN LOCOMOTIVE SUP

Township	Range	Dir	Section	Subsections	Elevation
29	24	W	3	AADDCD	860 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
978 ft.	978 ft.	11/01/1946

Drilling Method --

Well Address
MINNEAPOLIS MN

Geological Material	Color	Hardness	From	To
SAND			0	8
PLATTEVILLE LIMESTONE AND CLAY			8	22
ST PETER SANDSTONE			22	97
ST PETER SANDSTONE			97	170
SHAKOPEE-ONEOTA LIMESTONE			170	290
JORDAN SANDSTONE			290	370
SANDY CLAY	WHITE		370	521
CLAY	GREEN		521	535
SHALE AND FINE SAND			535	600
VERY FINE SAND AND CLAY			600	616
CLAY AND SHALE	BLUE		616	638
CLAY	GRAY		638	650
CLAY	GREEN		650	657
SHALE			657	666
SAND AND SHALE			666	694
SANDSTONE AND SHALE			694	758
SANDSTONE	WHITE		758	768
SAND AND SHALE			768	782
SANDSTONE			782	794
FINE SANDSTONE			794	815
MT. SIMON SANDSTONE			815	823
SANDSTONE	BROWN		823	837
SANDSTONE	PINK		837	844
COARSE SANDSTONE	PINK		844	848
VERY FINE SANDSTONE	PINK		848	850
SANDY CLAY	RED		850	940
QUARTZ GRIT	WHITE		940	959
CLAY	RED		959	960
VERY STICKY CLAY		HARD	960	978

REMARKS
CASING: 018 TO 0097;010 TO 0844.

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A **Date** N/A
System *UTM - Nad83, Zone15, Meters*
X: 478842 **Y:** 4986485

First Bedrock Platteville
Last Strat Mid.Proterozoic Sedimentary
Aquifer Multiple
Depth to Bedrock 8 ft.

Drilling Fluid
--

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Industrial

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
18 in. to 97 ft.	lbs./ft.	
10 in. to 844 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen	Make	Type	
Diameter	**Slot/Gauze**	**Length**	**Set Between**

Static Water Level
141 ft. from Land surface Date Measured 07/08/1948

PUMPING LEVEL (below land surface)
234 ft. after hrs. pumping 465 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Grouting Information Well Grouted? ☐ Yes ☐ No

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Layne Well Co. 27010
License Business Name Lic. Or Reg. No. Name of Driller

STATE_02822422

2222.1465

County Well Index Online Report	200883	Printed 6/27/2008 HE-01205-07

Minnesota Unique Well No.
203576

County Hennepin
Quad Minneapolis North
Quad ID 120D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 08/24/1991
Update Date 09/11/1991
Received Date

Well Name W. BARNES
Township Range Dir Section Subsections Elevation 838 **ft.**
118 21 W 12 DCCADB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
315 **ft.**	315 **ft.**	

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to ft.	lbs./ft.	

Open Hole from ft. to 315 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
0 ft. after hrs. pumping 150 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
4558 LYNDALE AV N
MINNEAPOLIS MN

Geological Material	Color	Hardness	From	To
TOP SOIL			0	9
CLAY	BLUE		9	32
GRAVEL			32	53
ST. PETER			53	82
SHALE			82	88
ST. PETER			88	146
DOLOMITE			146	271
JORDAN			271	315

REMARKS
P.A.85-6194.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 477412 **Y:** 4987222

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed
Manufacturer's name DEMING Model number ___ HP 0 Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

STATE_02822424

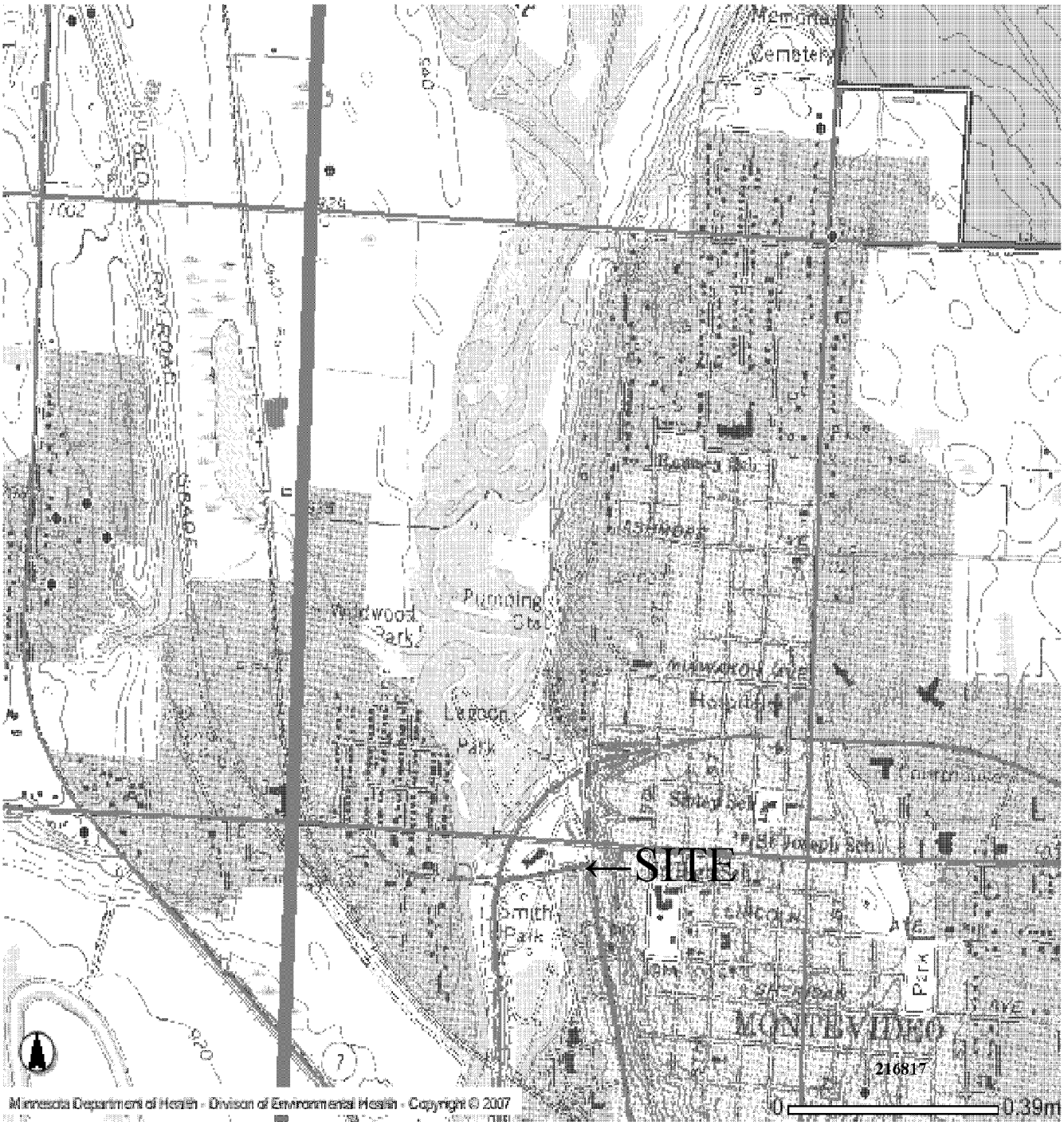
First Bedrock St.Peter **Last Strat** Jordan	**Aquifer** Multiple **Depth to Bedrock** 53 **ft.**	**Well Contractor Certification** Renner Max Well Co. 27246 License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	**203576**	Printed 6/27/2008 HE-01205-07

SITE SUMMARY

Site Name:	Montevideo
Fire Department:	Montevideo Fire Department PO Box 517 Montevideo, MN 56265
Site Contact:	Robb Gilkey firedept@montevideomn.org

Training Location:	Fire station, 103 Canton Avenue, Montevideo
Type of foam used in training:	AR-AFFF: 3M Light Water ATC 3%-6% Class A: Ansul Silv-ex
Foam training frequency:	"When we have a lot of foam"
Foam use per training event:	5 gallons
Spent foam destination:	Ground
Annual foam use:	AR-AFFF (3M Light Water): 2 gallons AR-AFFF (Ansulite 3x3): 0 gallons Class A: approximately 1 gallon
Nearest surface water:	Chippewa River less than 1/4 mile west
Nearest wetland:	Less than 1/4 north
Nearest water well:	1/2 to 1 mile southeast
Nearest Wellhead Protection Area:	More than 1 mile
SITE RANKING:	**17**

MONTEVIDEO CWI Well Map



Montevideo *What's In My Neighborhood* Map



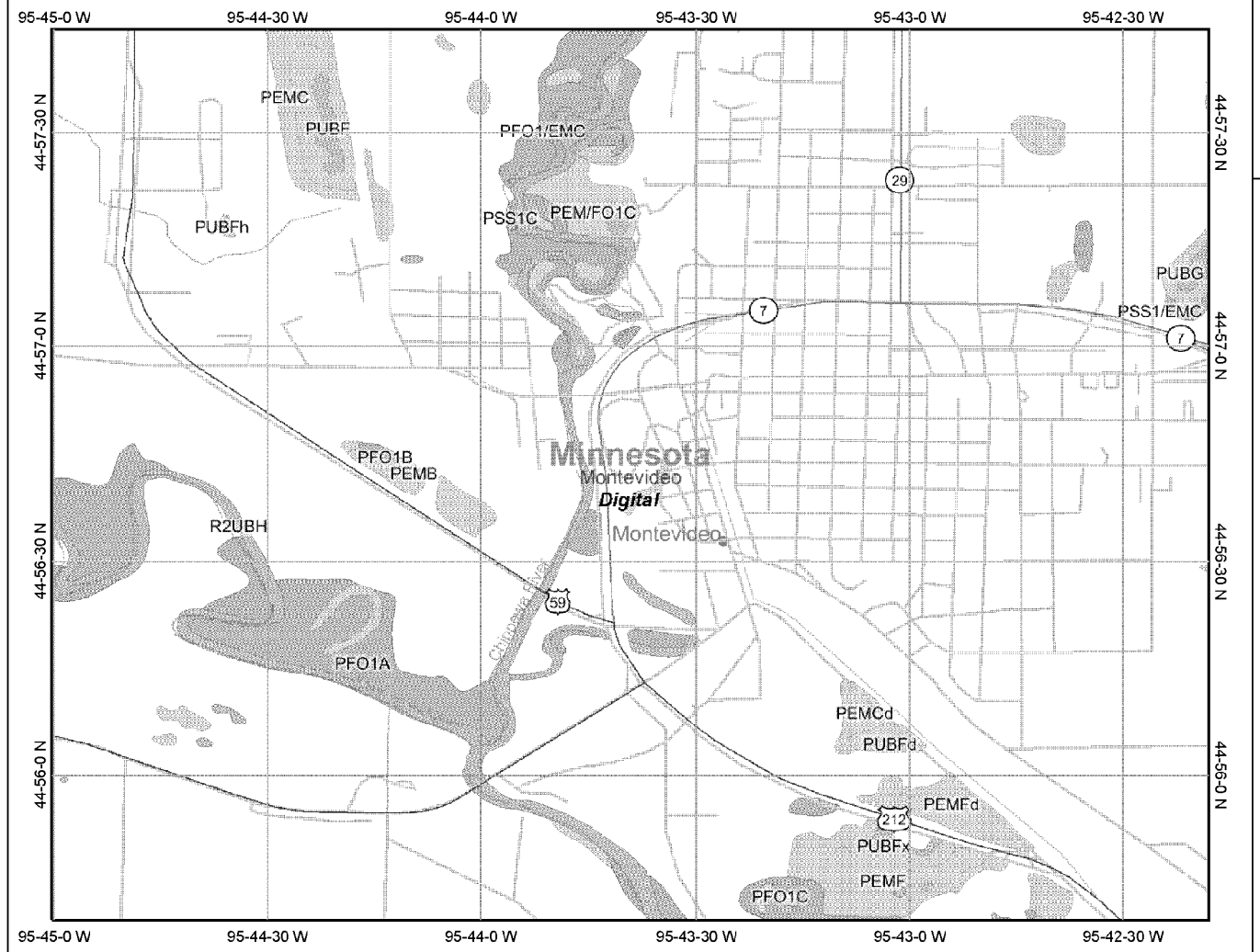
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Minnesota Pollution Control Agency

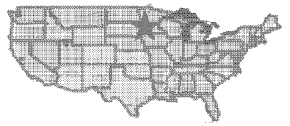
Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- HFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

Montevideo Wetland Map



Map center: 44° 56' 42" N, 95° 43' 39" W



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:26,986

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2222.1472

STATE_02822429

Minnesota Unique Well No.
216817

County Chippewa
Quad Montevideo
Quad ID 113B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/07/1988
Update Date 01/15/2002
Received Date

Well Name MONTEVIDEO TW
Township Range Dir Section Subsections Elevation 978 **ft.**
117 40 W 17 BCBDDD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
162 ft.	162 ft.	00/00/1943

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Test well

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter	Weight	Hole Diameter

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
MONTEVIDEO MN 56265

Geological Material	Color	Hardness	From	To
CLAY	BLUE		0	38
GRAVEL			38	50
FINE SAND			50	59
CLAY	BLUE		59	89
MEDIUM AND FINE SAND			89	108
CLAY	BLUE		108	134
SOAPSTONE			134	136
CLAY	BLUE		136	162
GRANITE			162	162

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number
Verification Information from owner **Date** N/A

System *UTM - Nad83, Zone15, Meters* **X:** 285843 **Y:** 4980247

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Minnesota Geological Survey MGS
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Cretaceous Regolith **Aquifer**
Last Strat Montevideo Gneiss **Depth to Bedrock** 134 **ft.**

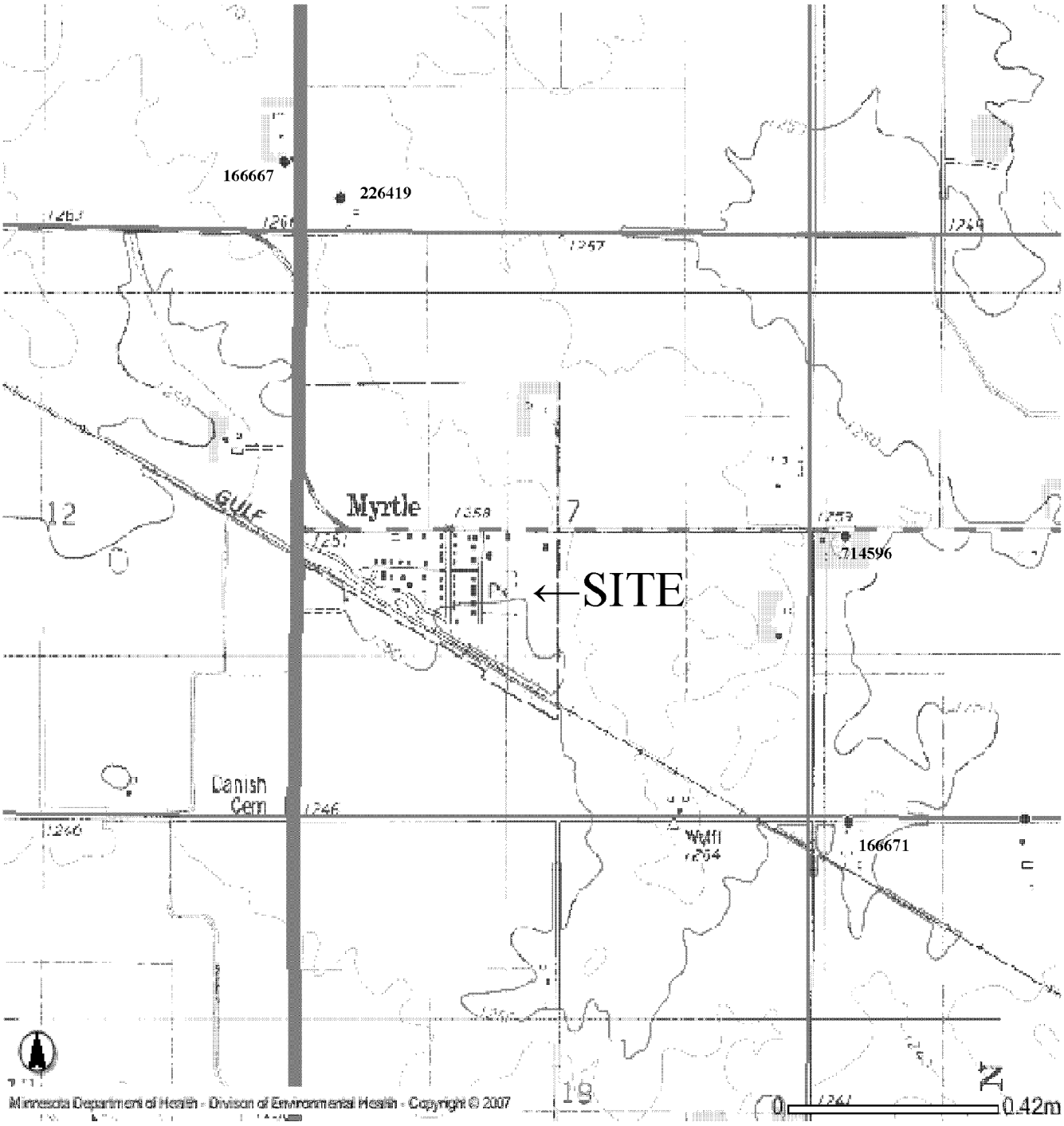
County Well Index Online Report | **216817** | Printed 6/27/2008 HE-01205-07

SITE SUMMARY

Site Name:	Myrtle
Fire Department:	Myrtle Fire Department Myrtle, MN 56070
Site Contact:	Not provided

Training Location:	Myrtle ball field
Type of foam used in training:	Not specified, use of 3M AFFF assumed
Foam training frequency:	Annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Ground
Annual foam use:	Not specified
Nearest surface water:	Intermittent stream located 1/2 to 3/4 mile west
Nearest wetland:	More than 1 mile
Karst Area:	Training site appears to be located in an active karst area
Nearest water well:	1/2 to3/4 mile east
Nearest Wellhead Protection Area:	More than 1 mile
SITE RANKING:	**17**

MYRTLE CWI Well Map



Myrtle *What's In My Neighborhood* Map



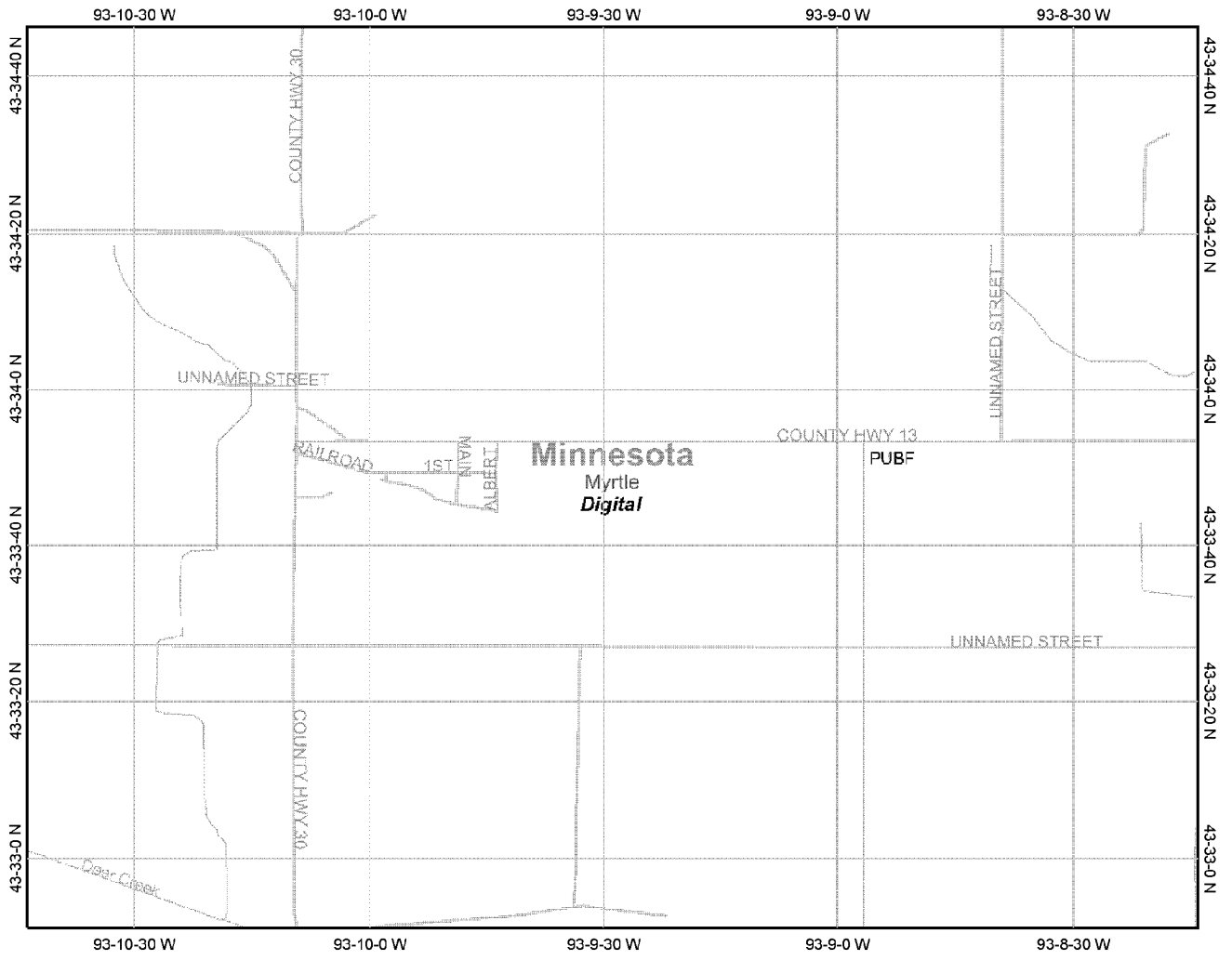
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Minnesota Pollution Control Agency

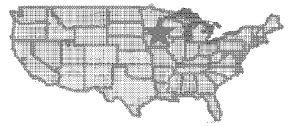
Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

Myrtle Wetland Map



Map center: 43° 33' 49" N, 93° 9' 29" W



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:24,908

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2222.1477

STATE_02822434

Minnesota Unique Well No.
166667

County Freeborn
Quad Myrtle
Quad ID 9C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/08/1988
Update Date 07/27/2000
Received Date

Well Name SVENSON, ALVIN
Township Range Dir Section Subsections Elevation 1265 **ft.**
101 20 W 1 DDDADC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
142 **ft.**	142 **ft.**	09/18/1979

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 2 **ft.**

Casing Diameter	Weight	Hole Diameter
5 in. to 132 ft.	15 lbs./ft.	

Open Hole from 132 ft. to 142 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
TOP SOIL	BLACK		0	2
CLAY	YELLOW		2	18
CLAY	BLUE		18	30
SAND			30	50
CLAY			50	125
LIMESTONE			125	135
SHALE			135	135
LIMESTONE			135	142

Static Water Level
39 ft. from Land surface Date Measured 09/18/1979

PUMPING LEVEL (below land surface)
46 ft. after 2 hrs. pumping 100 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☑ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Information from neighbor
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 486289 **Y:** 4824574

Nearest Known Source of Contamination
70 feet N direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number HP 0 Volts
Length of drop Pipe ft. Capacity g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Morrison Well Co. | 24001 | MORRISON, D.
License Business Name | Lic. Or Reg. No. | Name of Driller

First Bedrock Cedar Valley Group
Last Strat Cedar Valley Group
Aquifer Cedar Valley Group
Depth to Bedrock 125 **ft.**

County Well Index Online Report

166667

Printed 6/28/2008
HE-01205-07

STATE_02822435

2222.1478

Minnesota Unique Well No.
166671

County Freeborn
Quad Myrtle
Quad ID 9C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/08/1988
Update Date 07/27/2000
Received Date

Well Name BELSHAN, CALVIN
Township Range Dir Section Subsections Elevation 1251 **ft.**
101 19 W 17 BBBBAD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
140 **ft.**	140 **ft.**	10/02/1979

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 2 **ft.**

Casing Diameter	Weight	Hole Diameter
5 in. to 100 ft.	15 lbs./ft.	

Well Address
RR 1
GLENVILLE MN 56036

Geological Material	Color	Hardness	From	To
TOP SOIL	BLACK		0	2
CLAY	YELLOW		2	15
CLAY	BLUE		15	80
SHALE	LIGHT		80	95
LIMESTONE			95	125
SHALE	GREEN		125	127
LIMESTONE	GRAY		127	135
SHALE	GREEN		135	136
LIMESTONE	GRAY		136	137
SHALE	GREEN		137	138
LIMESTONE	GRAY		138	140

Open Hole from 100 ft. to 140 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
40 ft. from Land surface Date Measured 10/02/1979

PUMPING LEVEL (below land surface)
48 ft. after 2 hrs. pumping 75 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☑ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Information from neighbor
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 488068 **Y:** 4822748

Nearest Known Source of Contamination
100 feet W direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0 Volts
Length of drop Pipe __ft. Capacity __g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Morrison Well Co. 24001 MORRISON, D.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Cedar Valley Group
Last Strat Cedar Valley Group
Aquifer Cedar Valley Group
Depth to Bedrock 80 **ft.**

County Well Index Online Report | **166671** | Printed 6/28/2008 HE-01205-07

STATE_02822436

2222.1479

Minnesota Unique Well No.
226419

County Freeborn
Quad Myrtle
Quad ID 9C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/08/1988
Update Date 07/27/2000
Received Date

Well Name PRAUTUER, MILO
Township Range Dir Section Subsections Elevation 1265 **ft.**
101 19 W 6 CCCCAD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
160 **ft.**	160 **ft.**	09/01/1960

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
TOP SOIL			0	3
SAND			3	110
BROWN ROCK	BROWN		110	112
SAND			112	124
YELLOW ROCK SOFT	YELLOW	SOFT	124	150
LIMESTONE			150	160

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
40 ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Information from neighbor
Date N/A

System *UTM - Nad83, Zone15, Meters*
X: 486465 **Y:** 4824474

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Morrison Well Co. 24001 MORRISON WELL
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Cedar Valley Group
Last Strat Cedar Valley Group
Aquifer Cedar Valley Group
Depth to Bedrock 124 **ft.**

County Well Index Online Report

226419

Printed 6/28/2008
HE-01205-07

STATE_02822437

2222.1480

Minnesota Unique Well No.
714596

County Freeborn
Quad Myrtle
Quad ID 9C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 02/04/2005
Update Date 11/26/2007
Received Date 08/27/2004

Well Name CREWS, ROGER
Township Range Dir Section Subsections Elevation 1255 **ft.**
101 19 W 8 CBBABC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
115 **ft.**	115 **ft.**	08/23/2004

Drilling Method Non-specified Rotary

Well Address
86093 145TH ST
GLENVILLE MN

Geological Material	Color	Hardness	From	To
SOIL	BLACK	SOFT	0	2
CLAY SAND	YELLOW	SOFT	2	12
CLAY SAND	LT. GRY	SOFT	12	90
SHALE	DK. GRN	SOFT	90	94
LIMESTONE	BROWN	MED-HRD	94	115

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** **ft.**

Casing Diameter	Weight	Hole Diameter
5 in. to 94 ft.	15 lbs./ft.	8 in. to 94 ft.
		5 in. to 115 ft.

Open Hole from 94 ft. to 115 ft.

Screen NO **Make** **Type**
Diameter **Slot/Gauze** **Length** **Set Between**

Static Water Level
37 ft. from Land surface Date Measured 08/23/2004

PUMPING LEVEL (below land surface)
37 ft. after 2 hrs. pumping 20 g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model BULLDOG
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Cuttings from 50 to 94 ft.
Grout Material: High solids bentonite from to 50 ft. 2.5 bags

Located Minnesota Department of Health **Method** GPS SA Off (averaged)
Unique Number Verification N/A **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 488059 **Y:** 4823538

Nearest Known Source of Contamination
55 feet S direction Septic tank/drain field type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed 08/23/2004
Manufacturer's name AERMOTOR Model number 12T 75
HP 0.75 Volts 230
Length of drop Pipe 60 ft. Capacity 12 g.p.m Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
Martin Well Co. 22109 MARTIN, G.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat
Aquifer Cedar Valley Group
Depth to Bedrock 90 **ft.**

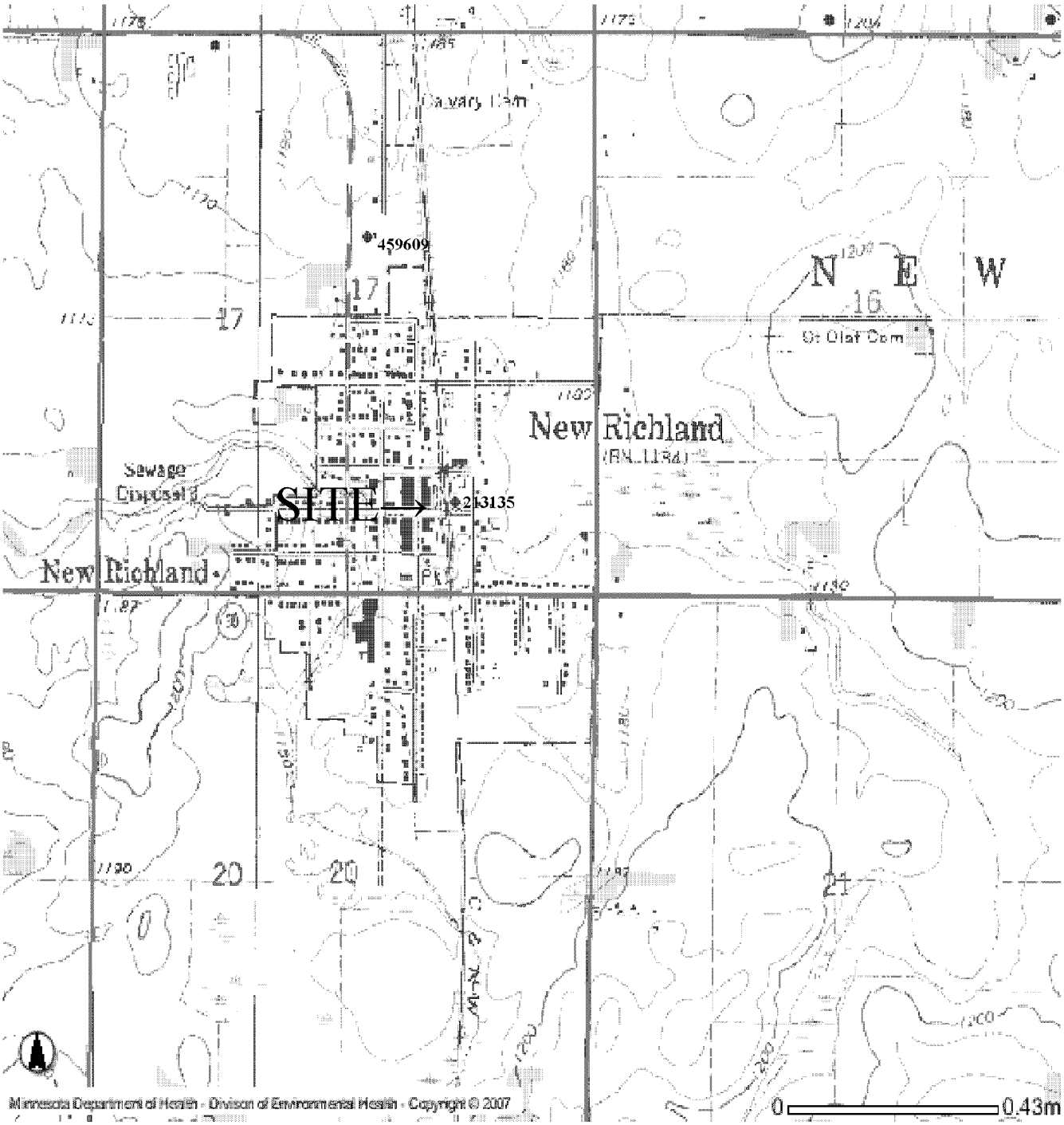
County Well Index Online Report | **714596** | Printed 6/28/2008 HE-01205-07

SITE SUMMARY

Site Name:	New Richland
Fire Department:	New Richland Fire Department PO Box 87 New Richland, MN 56072
Site Contact:	Brian Svoboda 507-465-3700 (home phone) Svoboda4@Hickorytech.net (home e-mail)

Training Location:	Grassy lot on east side of fire hall, 203 Broadway Avenue N., closest cross street 1st Street. NE
Type of foam used in training:	Other: Chemguard, product type not specified, training not specified Class A: Ansul Silv-ex
Foam training frequency:	Bi-Annually
Foam use per training event:	5 gallons
Spent foam destination:	Ground
Annual foam use:	Other: not specified Class A: less than 5 gallons
Nearest surface water:	Intermittent stream less than 1/8 mile south
Nearest wetland:	1/4 to 1/3 mile east
Karst Area:	Training site is located in a transition or covered karst area
Nearest water well:	Less than 1/8 mile north
Nearest Wellhead Protection Area:	More than 1 mile
SITE RANKING:	**13**

NEW RICHLAND CWI Well Map



New Richland *What's In My Neighborhood* Map



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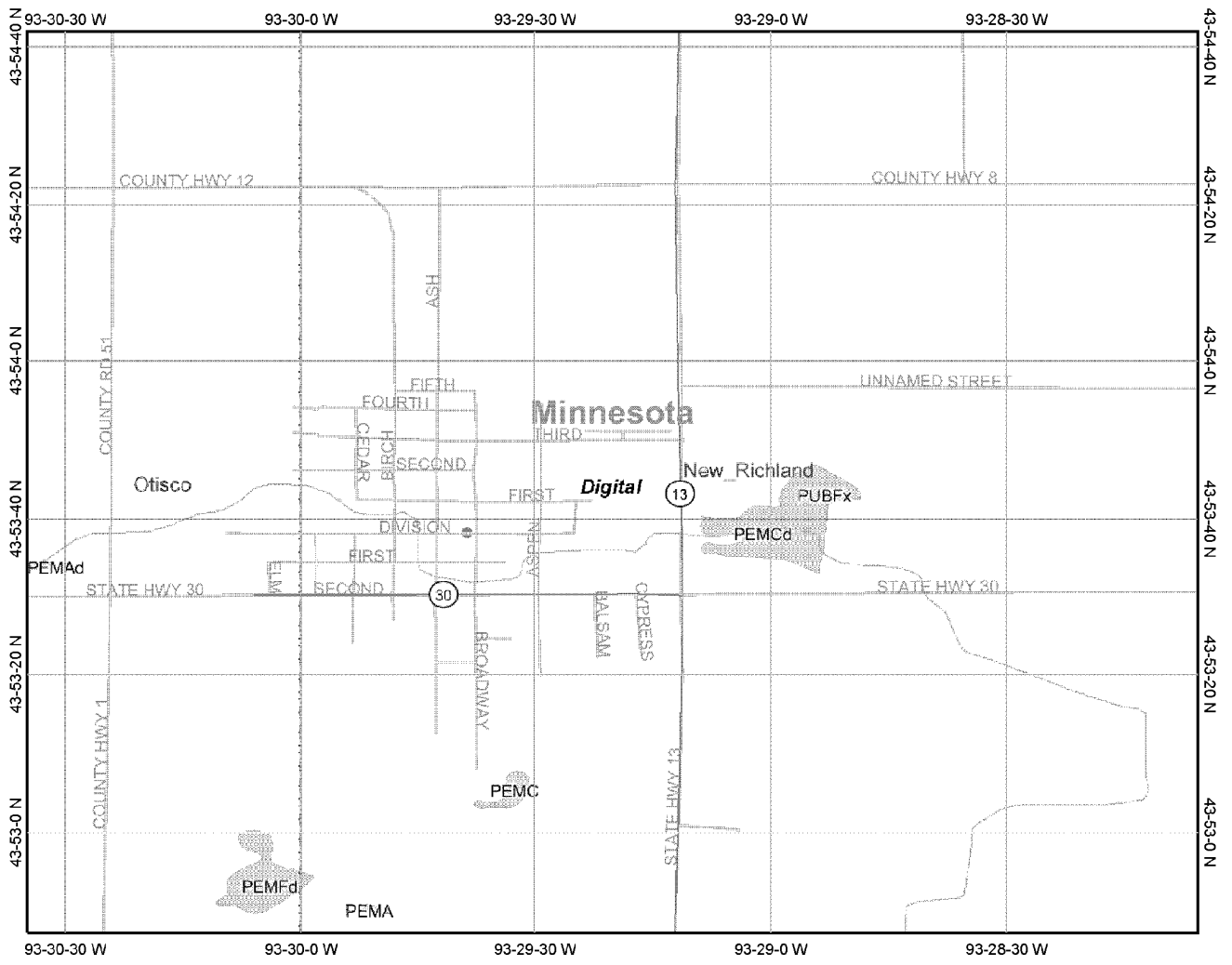
Minnesota Pollution Control Agency

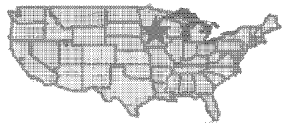
Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

STATE_02822441

New Richland Wetland Map





Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:24,828

Map center: 43° 53' 45" N, 93° 29' 20" W

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2222.1485

STATE_02822442

Minnesota Unique Well No.
213135

County Waseca
Quad New Richland
Quad ID 32B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/17/1988
Update Date 01/19/1992
Received Date

Well Name DUNWOODY + CORSON MILL

Township	Range	Dir	Section	Subsections	Elevation	Elevation Method
105	22	W	17	DCADBD	1184 ft.	7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
110 ft.	110 ft.	

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Commercial

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter

Well Address
NEW RICHLAND MN

Open Hole from ft. to ft.

Screen **Make** **Type**
Diameter **Slot/Gauze** **Length** **Set Between**

Geological Material	Color	Hardness	From	To
SOIL			0	2
TILL WITH SAND STREAKS	YELLOW		2	32
TILL	BLUE		32	98
SAND			98	100
SANDSTONE	YELLOW	HARD	100	110

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
ABANDONED

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number
Verification Information from owner
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 460467 **Y:** 4860226

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP 0 Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Minnesota Geological Survey MGS
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Galena
Last Strat Galena
Aquifer
Depth to Bedrock 100 **ft.**

County Well Index Online Report

213135

Printed 6/28/2008
HE-01205-07

Minnesota Unique Well No.
459609

County Waseca
Quad New Richland
Quad ID 32B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 01/28/1992
Update Date 03/27/1992
Received Date

Well Name HERBST, GLEN
Township Range Dir Section Subsections Elevation 1176 **ft.**
105 22 W 17 ACBCDB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
152 ft.	152 ft.	05/01/1990

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 111 ft.	lbs./ft.	7 in. to 111 ft.
		4 in. to 152 ft.

Open Hole from 111 ft. to 152 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
RR 2
NEW RICHLAND MN 56072

Geological Material	Color	Hardness	From	To
SOIL	BLACK	SOFT	0	2
CLAY	YELLOW	SOFT	2	6
SANDY + GRAVELY CLAY	YELLOW	SOFT	6	14
CLAY	BLUE	SOFT	14	90
SANDY CLAY	BLUE	SOFT	90	111
LIMESTONE	YELLOW	M.HARD	111	121
LIMESTONE	GRAY	M.HARD	121	152

Static Water Level
37 ft. from Land surface Date Measured 05/01/1990

PUMPING LEVEL (below land surface)
40 ft. after hrs. pumping 15 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Located Minnesota Geological Survey **Method** Digitization (Screen) - Map (1:24,000)

Unique Number Verification Other, note in remarks **Date** 06/26/2004

System *UTM - Nad83, Zone15, Meters* **X:** 460181 **Y:** 4860986

Nearest Known Source of Contamination
70 feet South East direction Septic tank/drain field type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 05/01/1990
Manufacturer's name FLINT + WALLING Model number 4F10B05
HP 0.5 Volts 230
Length of drop Pipe 54 ft. Capacity 10 g.p.m
Type Submersible Material Galvanized

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Born Well Co. 81162 BORN, R.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Galena **Aquifer** Galena
Last Strat Galena **Depth to Bedrock** 111 **ft.**

County Well Index Online Report **459609** Printed 6/28/2008 HE-01205-07

SITE SUMMARY

Site Name:	Newfolden
Fire Department:	Newfolden Fire Department PO Box 188 Newfolden, MN 56378
Site Contact:	Keith Rud, Fire Chief 218-874-7135 krud@wiktel.com

Training Location:	Fire hall (exact location not found, assumed in town)
Type of foam used in training:	Other: Oxford 229 Wetting Agent, used in training not specified
Foam training frequency:	Annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Ground
Annual foam use:	Other: 5 gallons Class A: 5 to 10 gallons
Nearest surface water:	Middle River runs along south edge of town
Nearest wetland:	1/4 to 1/3 mile southwest and east of town
Nearest water well:	1/4 to 1/2 mile east and west of town
Nearest Wellhead Protection Area:	More than 1 mile
SITE RANKING:	**7**

NEWFOLDEN CWI Well Map



Newfolden *What's In My Neighborhood* Map



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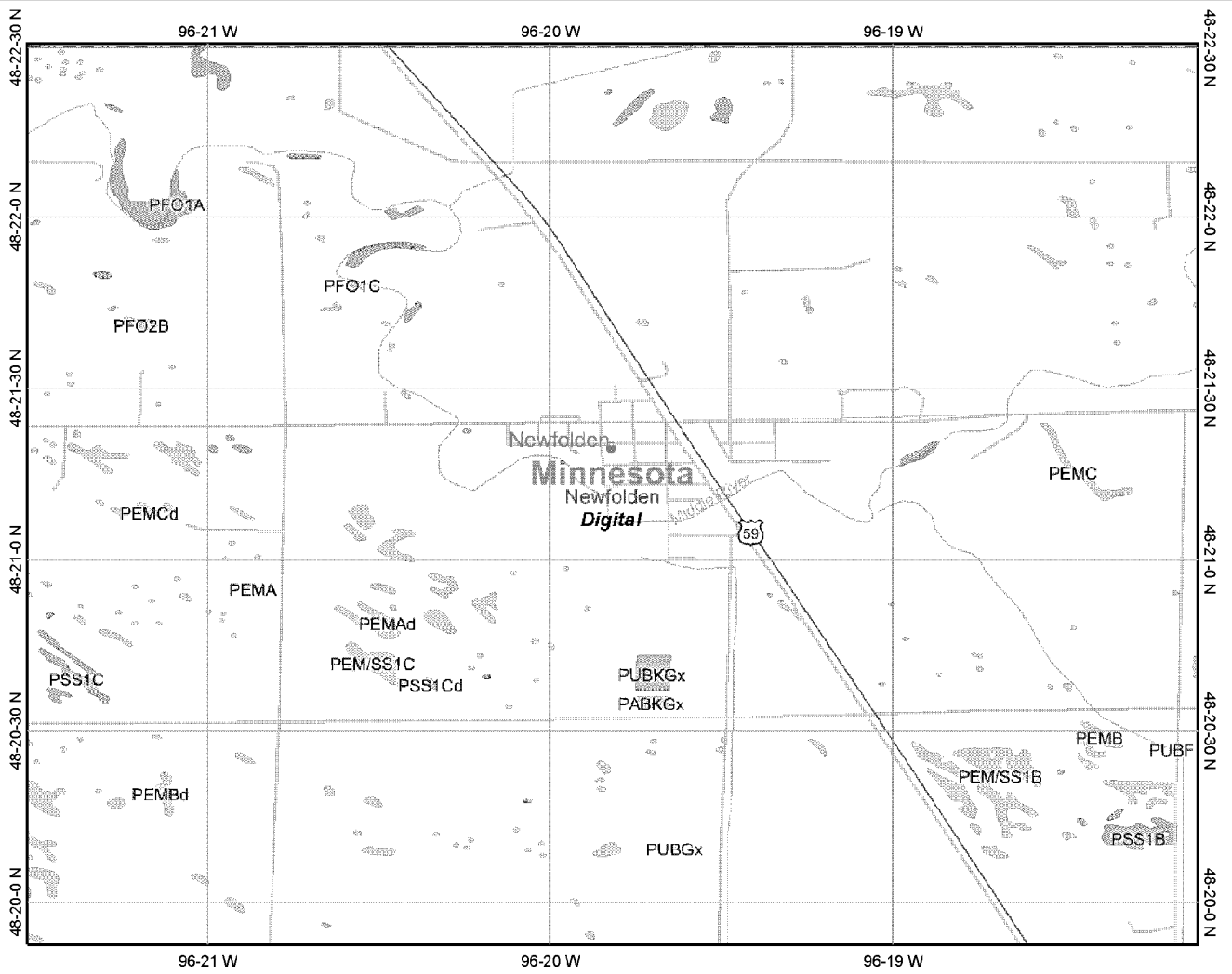
Minnesota Pollution Control Agency

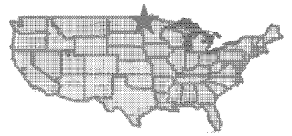
Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

STATE_02822447

Newfolden Wetland Map





Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:34,158

Map center: 48° 21' 12" N, 96° 19' 49" W

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2222.1491

STATE_02822448

Minnesota Unique Well No.
683985

County Marshall
Quad Newfolden
Quad ID 416D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/06/2005
Update Date 05/09/2006
Received Date 01/31/2005

Well Name KNUTSON, RANDY

Township	Range	Dir	Section	Subsections	Elevation
156	44	W	9	BAABDB	1096 ft.

Elevation Method Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
85 ft.	83 ft.	01/11/2005

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below** ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 78 ft.	1.5 lbs./ft.	8 in. to 30 ft.
		6.25 in. to 85 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type**

Diameter	Slot/Gauze	Length	Set Between
3	12	5	78 ft. and 83 ft.

Well Address
12615 330TH ST NW
NEWFOLDEN MN 56738

Geological Material	Color	Hardness	From	To
TOP SOIL	BLACK	SOFT	0	1
CLAY - STONES	GRAY	MEDIUM	1	75
SAND	GRAY	SOFT	75	85

Static Water Level
12 ft. from Land surface Date Measured 01/03/2005

PUMPING LEVEL (below land surface)
75 ft. after 2 hrs. pumping 7 g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model BULLDOG
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Located Minnesota Department of Health **Method** GPS SA Off (averaged)
Unique Number Verification N/A **Date** 12/22/2005
System *UTM - Nad83, Zone15, Meters* **X:** 254434 **Y:** 5361240

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: High solids bentonite from to 40 ft. 1 bags

Nearest Known Source of Contamination
100 feet S direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 01/03/2005
Manufacturer's name STA-RITE Model number 10SP40C2J
HP 0.5 Volts 230
Length of drop Pipe 75 ft. Capacity 10 g.p.m
Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

STATE_02822449

2222.1492

First Bedrock **Last Strat**	**Aquifer** **Depth to Bedrock ft.**	**Well Contractor Certification** Davidson Well License Business Name	45664 Lic. Or Reg. No.	DAVIDSON, J. Name of Driller
County Well Index Online Report	**683985**		Printed 6/28/2008 HE-01205-07	

Minnesota Unique Well No.
712351

County Marshall
Quad Newfolden
Quad ID 416D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date
Update Date 08/02/2006
Received Date 04/14/2005

Well Name ANDERSON, ROB

Township	Range	Dir	Section	Subsections	Elevation
156	44	W	8	BBBBDC	1093 ft.

Elevation Method Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
112 ft.	110 ft.	03/01/2005

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below** ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 100 ft.	1.5 lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type**

Diameter	Slot/Gauze	Length	Set Between
3	10	10	100 ft. and 110 ft.

Well Address
330TH ST NW
NEWFOLDEN MN 56738

Geological Material	Color	Hardness	From	To
TOPSOIL	BLACK	SOFT	0	1
CLAY-STONES	GRAY	MEDIUM	1	95
SAND-FINE	GRAY	SOFT	95	112

Static Water Level
10 ft. from No Information Date Measured 03/01/2005

PUMPING LEVEL (below land surface)
30 ft. after 2 hrs. pumping 35 g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model BULLDOG
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: High solids bentonite from 8 to 60 ft. 2 bags

Located Minnesota Department of Health **Method** GPS SA Off (averaged)
Unique Number Verification N/A **Date** 12/22/2005
System *UTM - Nad83, Zone15, Meters* **X:** 252198 **Y:** 5361266

Nearest Known Source of Contamination
100 feet N direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 03/01/2005
Manufacturer's name STA-RITE Model number 10SP40CJ2
HP 0.5 Volts 230
Length of drop Pipe 40 ft. Capacity 10 g.p.m
Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

STATE_02822451

2222.1494

First Bedrock **Last Strat**	**Aquifer** **Depth to Bedrock ft.**	**Well Contractor Certification** Davidson Well 45664 License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	**712351**	Printed 6/28/2008 HE-01205-07

SITE SUMMARY

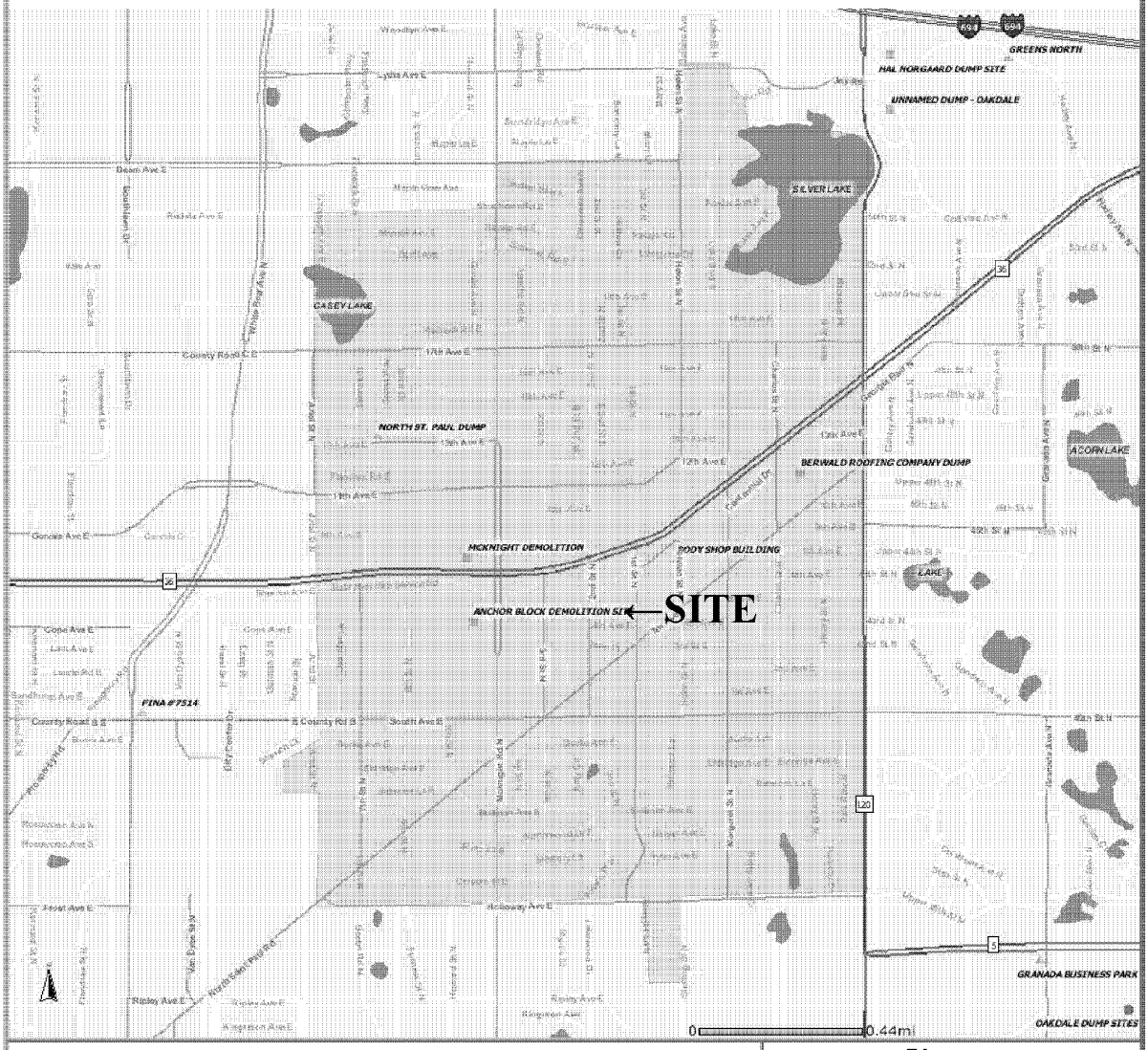
Site Name:	North St. Paul
Fire Department:	North St. Paul Fire Department 2400 Margaret Street North St. Paul, MN 55109
Site Contact:	Jason Mallinger, Deputy Fire Chief 651-747-2552 jmallinger@ci.north-saint-paul.mn.us

Training Location:	North St. Paul Public Works, 2303 1st Street N., North St. Paul
Type of foam used in training:	AFFF: 3M Light Water Class A: 3M Light Water (SFFF)
Foam training frequency:	Semi-Annually
Foam use per training event:	5 to 10 gallons
Spent foam destination:	Ground
Annual foam use:	AFFF: 5 gallons Class A: 15 gallons
Nearest surface water:	Unnamed stream less than 1/8 mile northeast
Nearest wetland:	1/4 to 1/2 mile west
Karst Area:	Training site is located in a covered karst area
Nearest water well:	Less than 1/4 mile southwest
Nearest Wellhead Protection Area:	Training site located in or adjacent to Wellhead Protection Area
SITE RANKING:	**28**

NORTH ST PAUL CWI Well Map



North St. Paul Richland *What's In My Neighborhood*



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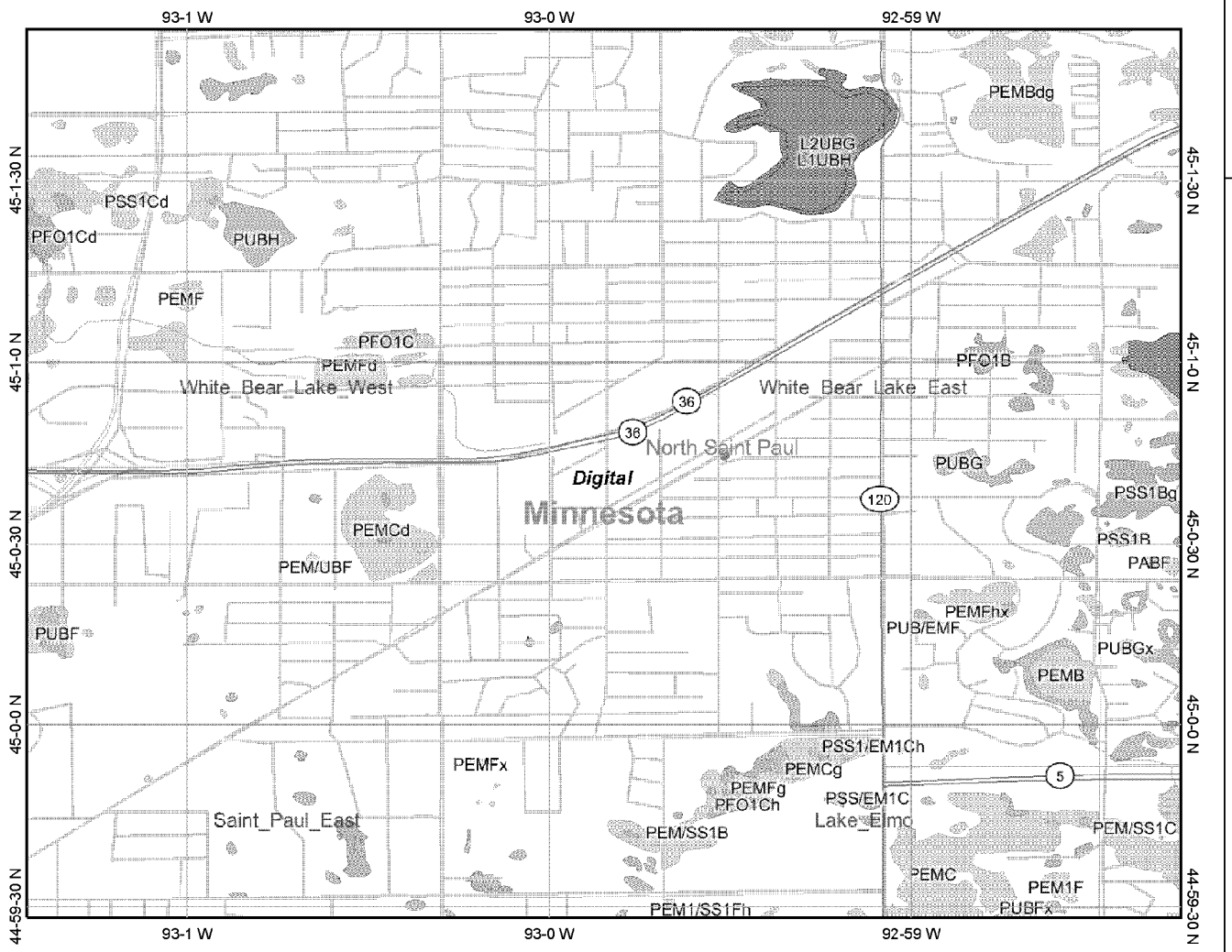
Minnesota Pollution Control Agency

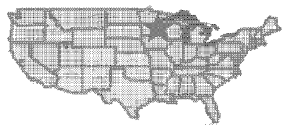
Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

STATE_02822455

North St Paul





Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:31,802

Map center: 45° 0' 42" N, 92° 59' 51" W

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2222.1499

STATE_02822456

Minnesota Unique Well No.
200440

County Ramsey
Quad White Bear Lake East
Quad ID 118C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/14/1991
Update Date 01/14/2004
Received Date

Well Name CLYDE CROSSLEY

Township	Range	Dir	Section	Subsections	Elevation
29	22	W	13	AAAAAB	1005 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
200 ft.	200 ft.	08/30/1936

Drilling Method --

Well Address
B CR
NORTH ST PAUL MN

Geological Material	Color	Hardness	From	To
BOULDERS + GRAVEL + CLAY			0	27
SAND			27	30
GRAY CLAY, GRAVEL AND SAND	GRAY		30	56
BOULDERS + SAND + CLAY	GRAY		56	121
CLAY + SAND			121	131
SANDROCK			131	200

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 ft.

Casing Diameter	Weight	Hole Diameter
2 in. to 180 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen **Make** **Type**
Diameter **Slot/Gauze** **Length** **Set Between**

Static Water Level
120 ft. from Land surface Date Measured 08/00/1936

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
WELL ABANDONED

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 501191 **Y:** 4983690

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Keys Well Co. 62012
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock St.Peter
Last Strat St.Peter
Aquifer St.Peter
Depth to Bedrock 131 ft.

County Well Index Online Report

200440

Printed 6/28/2008
HE-01205-07

Minnesota Unique Well No.
208225

County Ramsey
Quad White Bear Lake East
Quad ID 118C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/14/1991
Update Date 01/14/2004
Received Date

Well Name STANDARD CONVEYOR CO.
Township Range Dir Section Subsections Elevation 970 **ft.**
29 22 W 12 CDBCCB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
360 **ft.**	360 **ft.**	11/00/1953

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
10 in. to 54 ft.	lbs./ft.	
8 in. to 212 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen **Make** **Type**
Diameter **Slot/Gauze** **Length** **Set Between**

Well Address
MN

Geological Material	Color	Hardness	From	To
SAND + GRAVEL			0	18
CLAY			18	40
SHALE			40	53
PLATTEVILLE LIMEROCK			53	83
ST PETER SANDROCK			83	243
SHAKOPEE LIMEROCK			243	360

Static Water Level
84 ft. from Land surface Date Measured 11/00/1953

PUMPING LEVEL (below land surface)
92 ft. after hrs. pumping 200 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
CASING: 010 TO 0054;008 TO 0212.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 500034 **Y:** 4983934

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed
Manufacturer's name A.O.SMITH Model number ___ HP 15 Volts 220
Length of drop Pipe 127 ft. Capacity 1760 g.p.m
Type Turbine Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Keys Well Co. 62012
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Decorah
Last Strat Prairie Du Chien Group
Aquifer Multiple
Depth to Bedrock 40 **ft.**

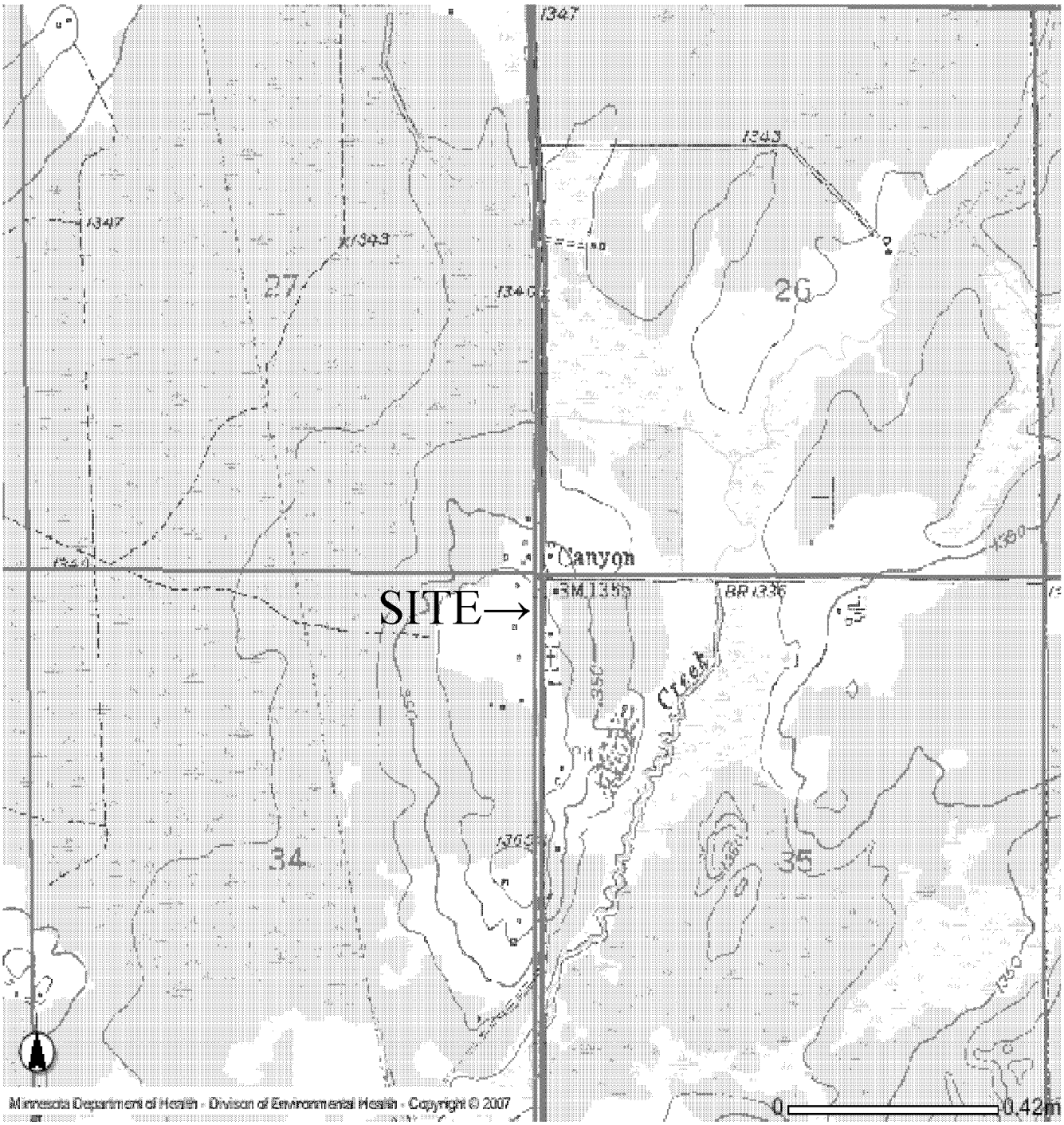
County Well Index Online Report **208225** Printed 6/28/2008
HE-01205-07

SITE SUMMARY

Site Name:	Northland
Fire Department:	Northland Fire Department 7271 Highway 53 S. Canyon, MN 55717
Site Contact:	Not provided, back page of questionnaire not completed

Training Location:	Fire hall, 7271 Highway 53, Canyon
Type of foam used in training:	Not specified
Foam training frequency:	Annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Ground
Annual foam use:	Not specified, use of 3M AFFF assumed
Nearest surface water:	Hellwig Creek, 1/4 tot 1/3 mile east
Nearest wetland:	1/4 to 1/2 mile west
Nearest water well:	More than 1 mile
Nearest Wellhead Protection Area:	More than 1 mile
SITE RANKING:	**12**

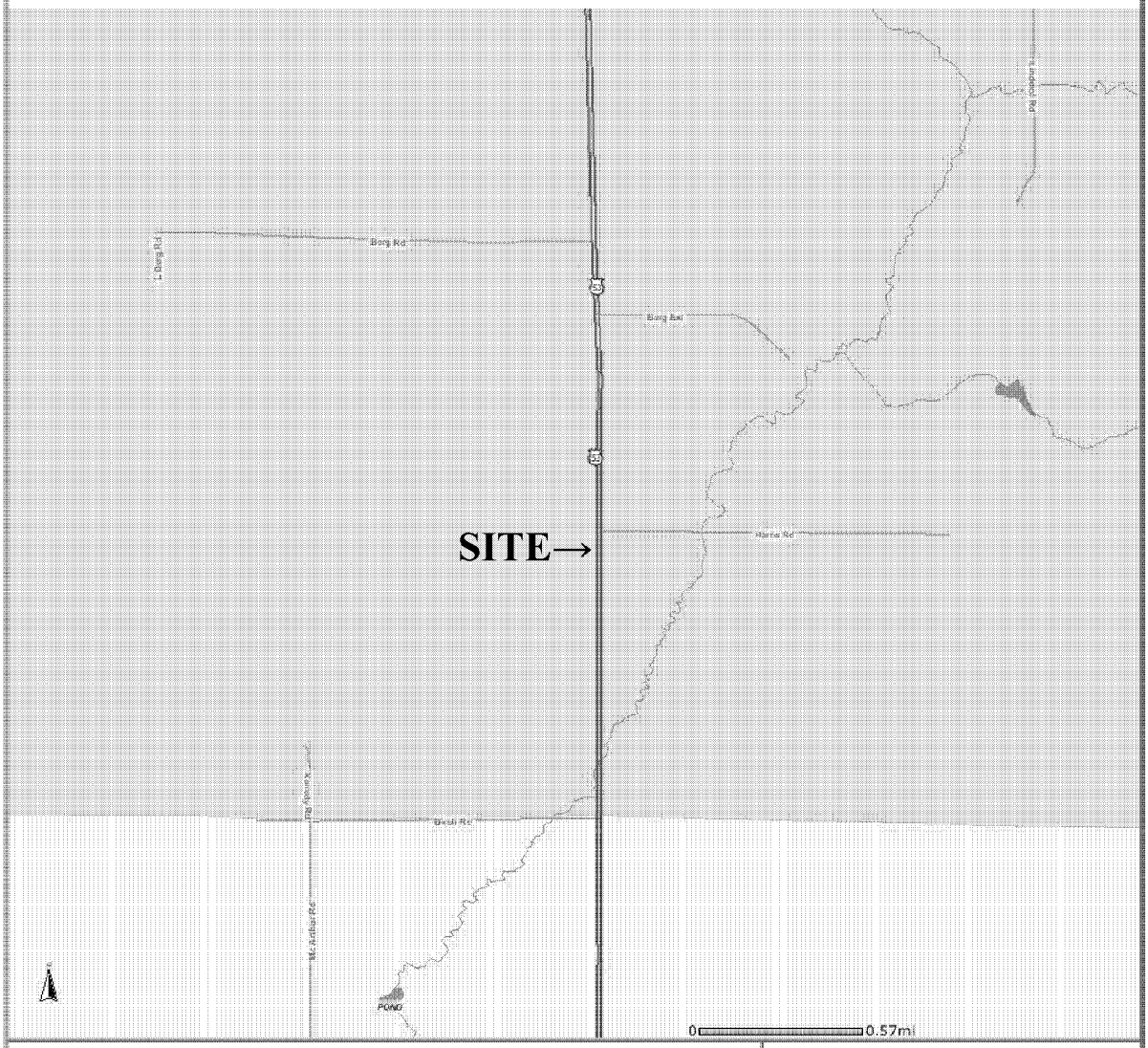
NORTHLAND CWI Well Map



STATE_02822460

2222.1503

Northland *What's In My Neighborhood* Map



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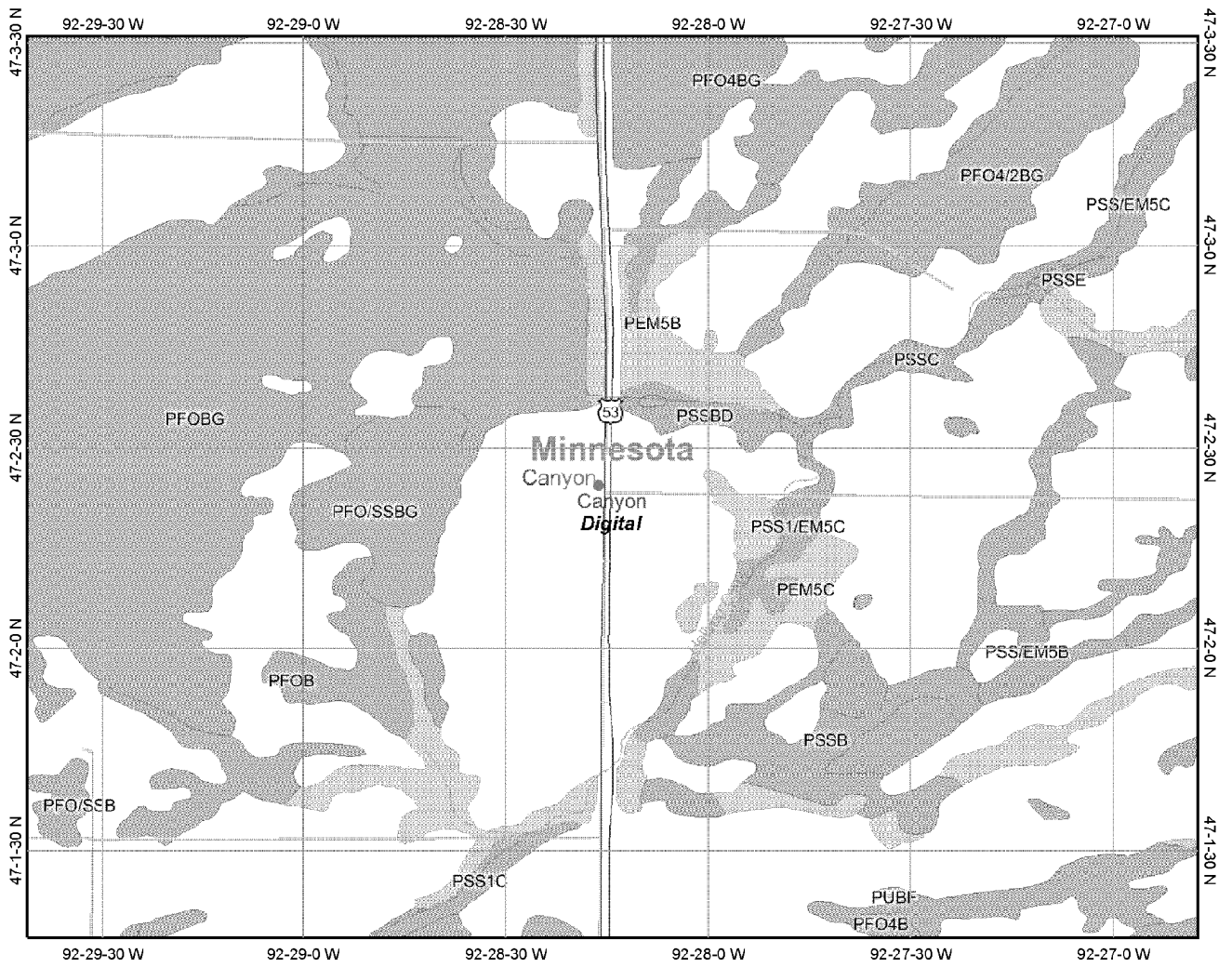
Minnesota Pollution Control Agency

Sites

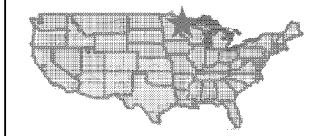
- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

STATE_02822461

Northland Wetland Map



Map center: 47° 2' 24" N, 92° 28' 14" W



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:28,922

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2222.1505

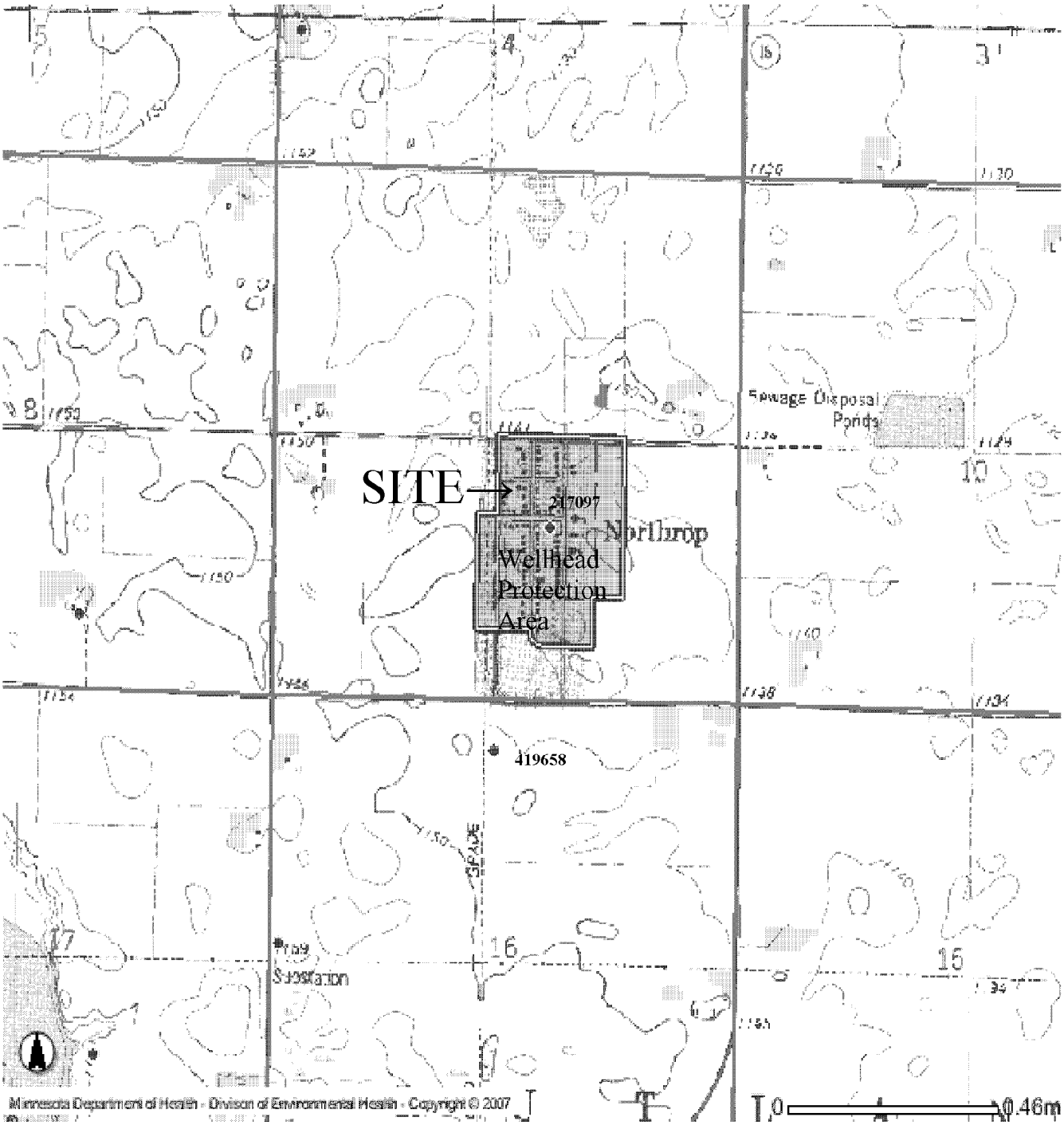
STATE_02822462

SITE SUMMARY

Site Name:	Northrop
Fire Department:	Northrop Fire Department PO Box 208 Northrop, MN 56075
Site Contact:	Corrie Martinson, Fire Chief 507-399-3228 nfdfiredp@yahoo.com

Training Location:	Behind fire hall, 211 N. Bridgeman, Northrop
Type of foam used in training:	Other: Pyrocorn Stick
Foam training frequency:	Bi-Annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Ground
Annual foam use:	Other: 1 stick
Nearest surface water:	Lake Charlotte, more than 1 mile southwest
Nearest wetland:	More than 1/4 to the east and west
Nearest water well:	Less than 1/8 mile southeast
Nearest Wellhead Protection Area:	Training site located in Wellhead Protection Area
SITE RANKING:	**11**

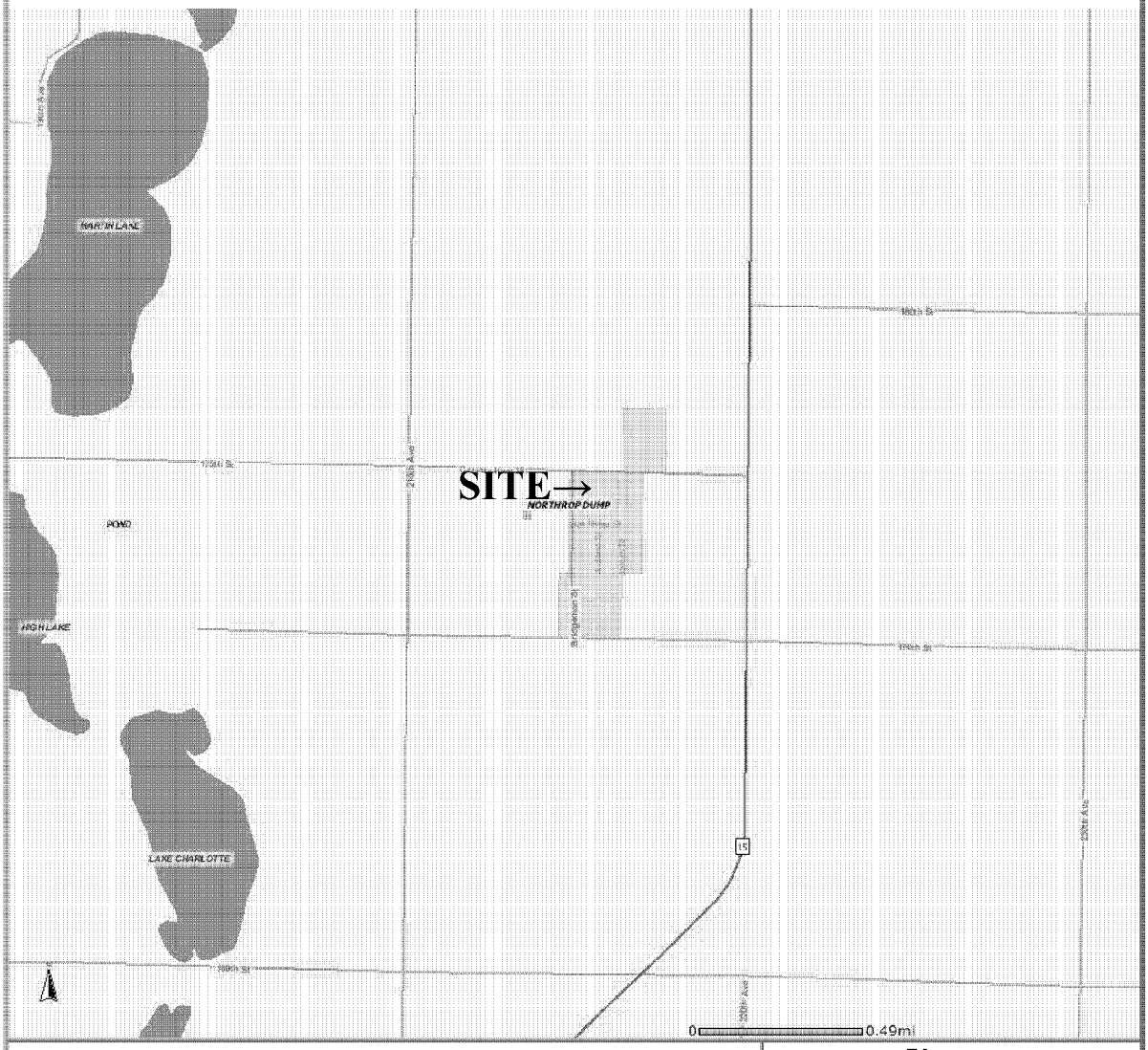
NORTHROP CWI Well Map



STATE_02822464

2222.1507

Northrop *What's In My Neighborhood* Map



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Minnesota Pollution Control Agency

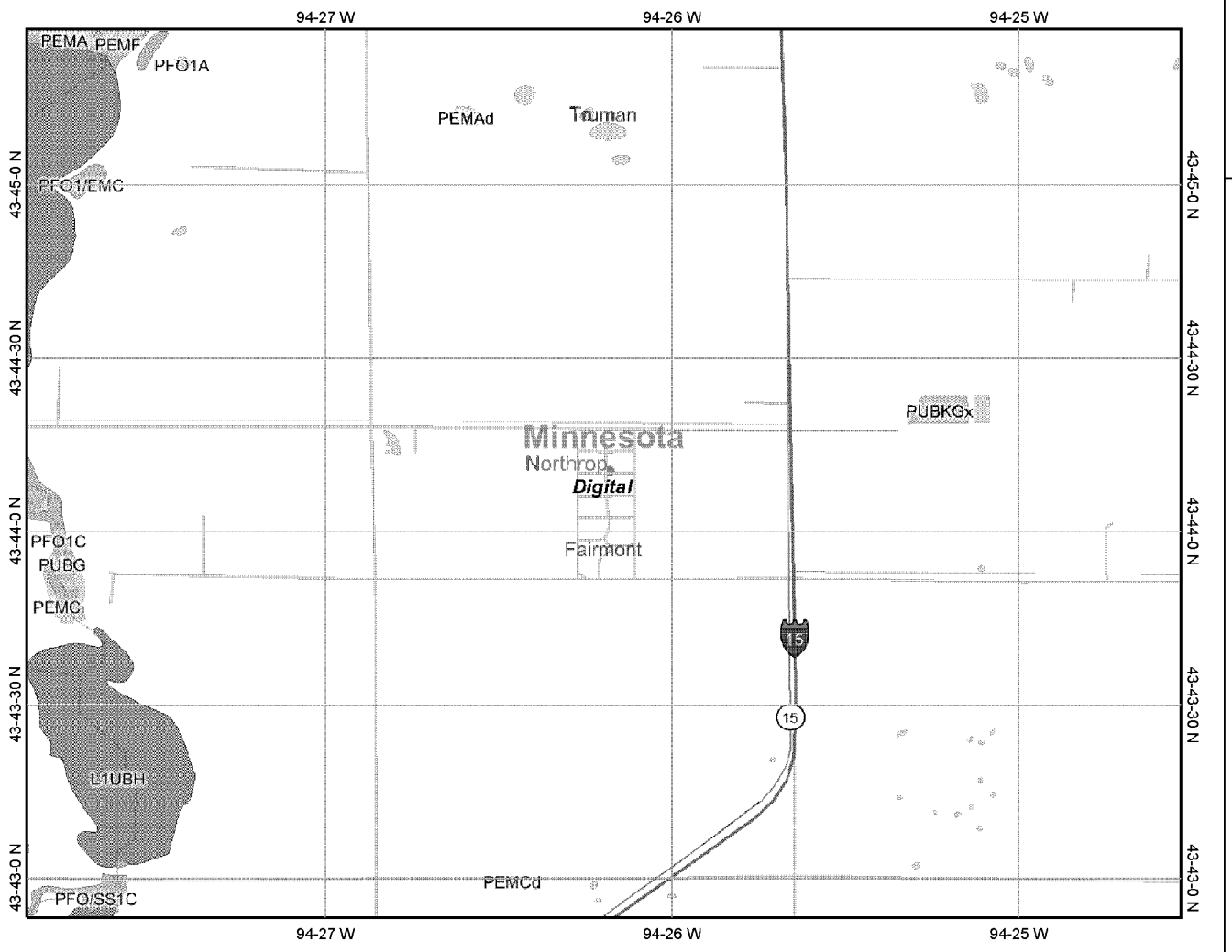
Sites

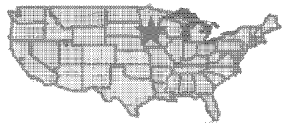
- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

STATE_02822465

2222.1508

Northrop Wetland Map





Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:33,256

Map center: 43° 44' 10" N, 94° 26' 12" W

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2222.1509

STATE_02822466

Minnesota Unique Well No.
217097

County Martin
Quad Fairmont
Quad ID 14B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/13/1988
Update Date 07/10/2007
Received Date

Well Name NORTHROP #1
Township Range Dir Section Subsections Elevation 1146 **ft.**
103 30 W 9 DBCADA **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
145 **ft.**	145 **ft.**	09/00/1955

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter	Weight	Hole Diameter
12 in. to ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type**

Diameter	Slot/Gauze	Length	Set Between
12	12	20	0 ft. and ft.

Well Address
NORTHROP MN

Geological Material	Color	Hardness	From	To
TOPSOIL			0	3
CLAY	YELLOW		3	21
CLAY	BLUE		21	119
FINE SAND	WHITE		119	145

Static Water Level
76 ft. from Land surface Date Measured 09/00/1955

PUMPING LEVEL (below land surface)
95 ft. after 10 hrs. pumping 200 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
WELL SEALED 11-27-2002 BY 46191

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey **Method** GPS SA On (averaged)
Unique Number Verification N/A **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 384368 **Y:** 4843567

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
BROWN, K.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-white
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock **ft.**

County Well Index Online Report | **217097** | Printed 6/28/2008 IIE-01205-07

Minnesota Unique Well No.
419658

County Martin
Quad
Quad ID 14B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/13/1988
Update Date 09/12/2002
Received Date

Well Name ABEL,ROYCE
Township Range Dir Section Subsections Elevation 1149 **ft.**
103 30 W 16 DAAADD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
170 **ft.**	169 **ft.**	10/16/1986

Drilling Method Non-specified Rotary

Geological Material	Color	Hardness	From	To
TOP SOIL	BLACK	SOFT	0	1
CLAY	YELLOW	SOFT	1	13
CLAY	BLUE	SOFT	13	152
SAND	BROWN	SOFT	152	170

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 2 **ft.**

Casing Diameter	Weight	Hole Diameter
5 in. to 164 ft.	lbs./ft.	9 in. to 170 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
5	20	5	164 ft. and 169 ft.

Static Water Level
45 ft. from Land surface Date Measured 10/16/1986

PUMPING LEVEL (below land surface)
80 ft. after 1 hrs. pumping 20 g.p.m.

Well Head Completion
Pitless adapter manufacturer SNAPPY Model 5"
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Located Mankato State University
Method Digitization (Screen) - Map (1:24,000)

Unique Number
Verification Information from owner
Date N/A

System *UTM - Nad83, Zone15, Meters* **X:** 384173 **Y:** 4842893

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Bentonite from 0 to 150 ft. 1.5 yrds.

Nearest Known Source of Contamination
65 feet W direction type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 10/16/1986
Manufacturer's name GRUDFOS Model number SP2-10
HP 0.5 Volts 230
Length of drop Pipe 80 ft. Capacity 10 g.p.m
Type Submersible Material Plastic

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification

License Business Name	Lic. Or Reg. No.	Name of Driller
Beemer Well Co.	46191	KOLLASCH, T.

First Bedrock
Last Strat Sand-brown
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **419658** | Printed 6/28/2008 HF-01205-07

STATE_02822468

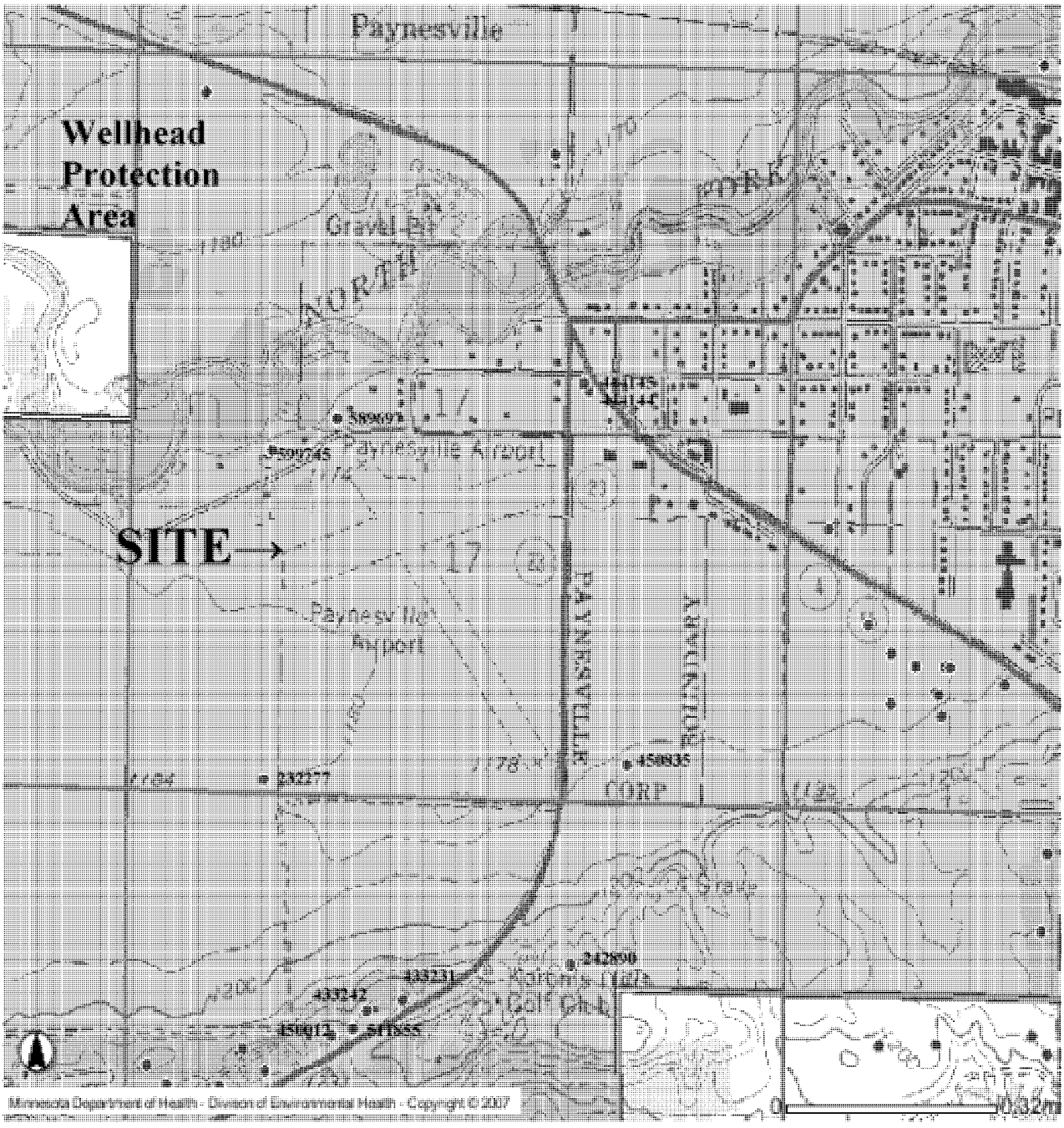
2222.1511

SITE SUMMARY

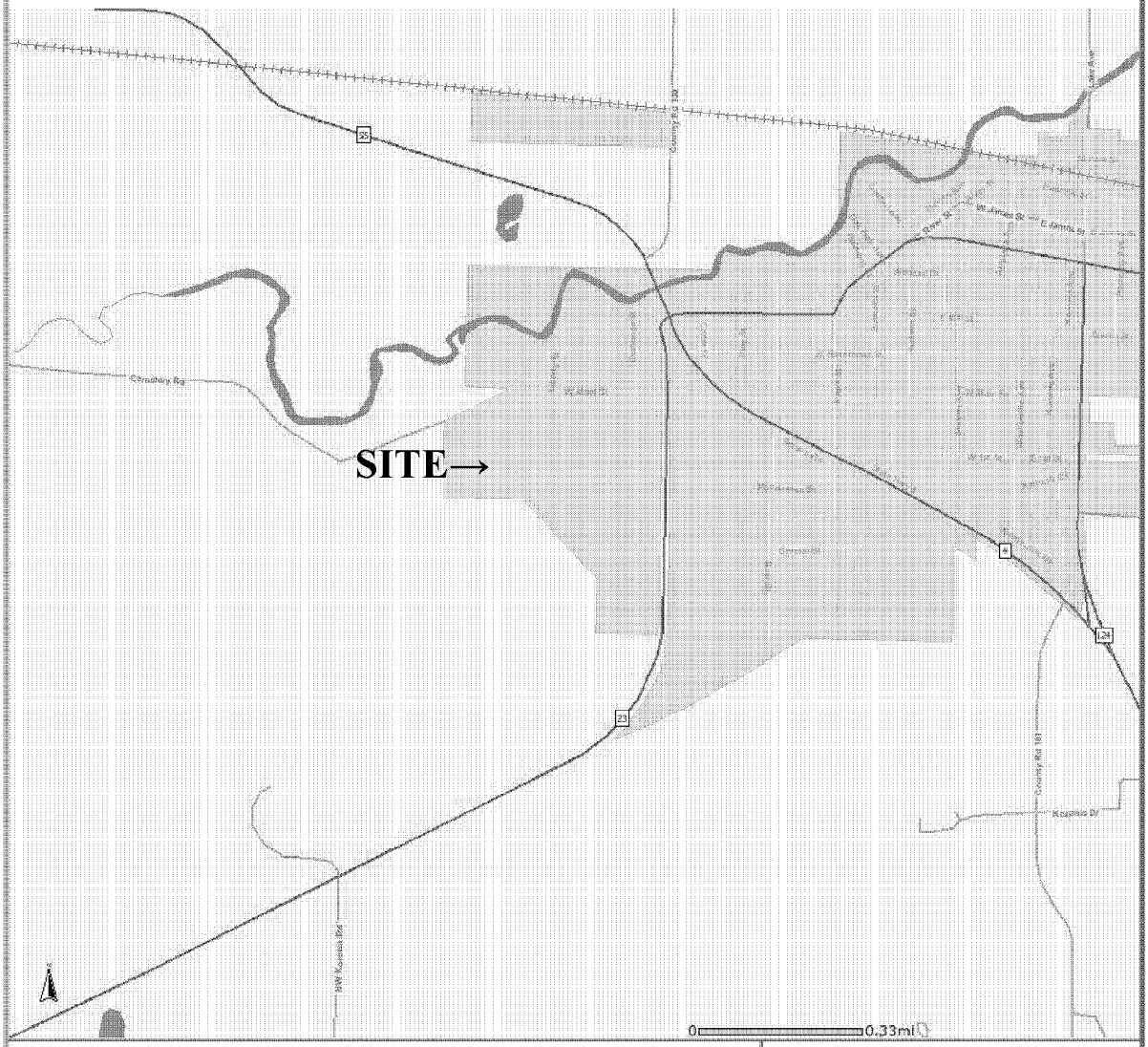
Site Name:	Paynesville
Fire Department:	Paynesville Fire Department Box 34 Paynesville, MN 56362
Site Contact:	Jack Winter, Fire Chief 320-243-3714 jwinter@lakedalelink.net

Training Location:	City airport, Paynesville
Type of foam used in training:	AR-AFFF: Chemguard AR3% (use in training not specified) Class A: Ansul Silv-ex (use in training not specified) Other: Pyrocom TS-Eco (use in training not specified)
Foam training frequency:	Bi-Annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Ground
Annual foam use:	AR-AFFF: less than 1 gallon Class A: not specified Other: not specified
Nearest surface water:	North Fork of the Crow River, less than 1/4 mile north of airport
Nearest wetland:	Less than 1/4 mile north
Nearest water well:	Less than 1/8 mile from airport
Nearest Wellhead Protection Area:	Training site located in Wellhead Protection Area
SITE RANKING:	**16**

PAYNESVILLE CWI Well Map



Paynesville *What's In My Neighborhood* Map



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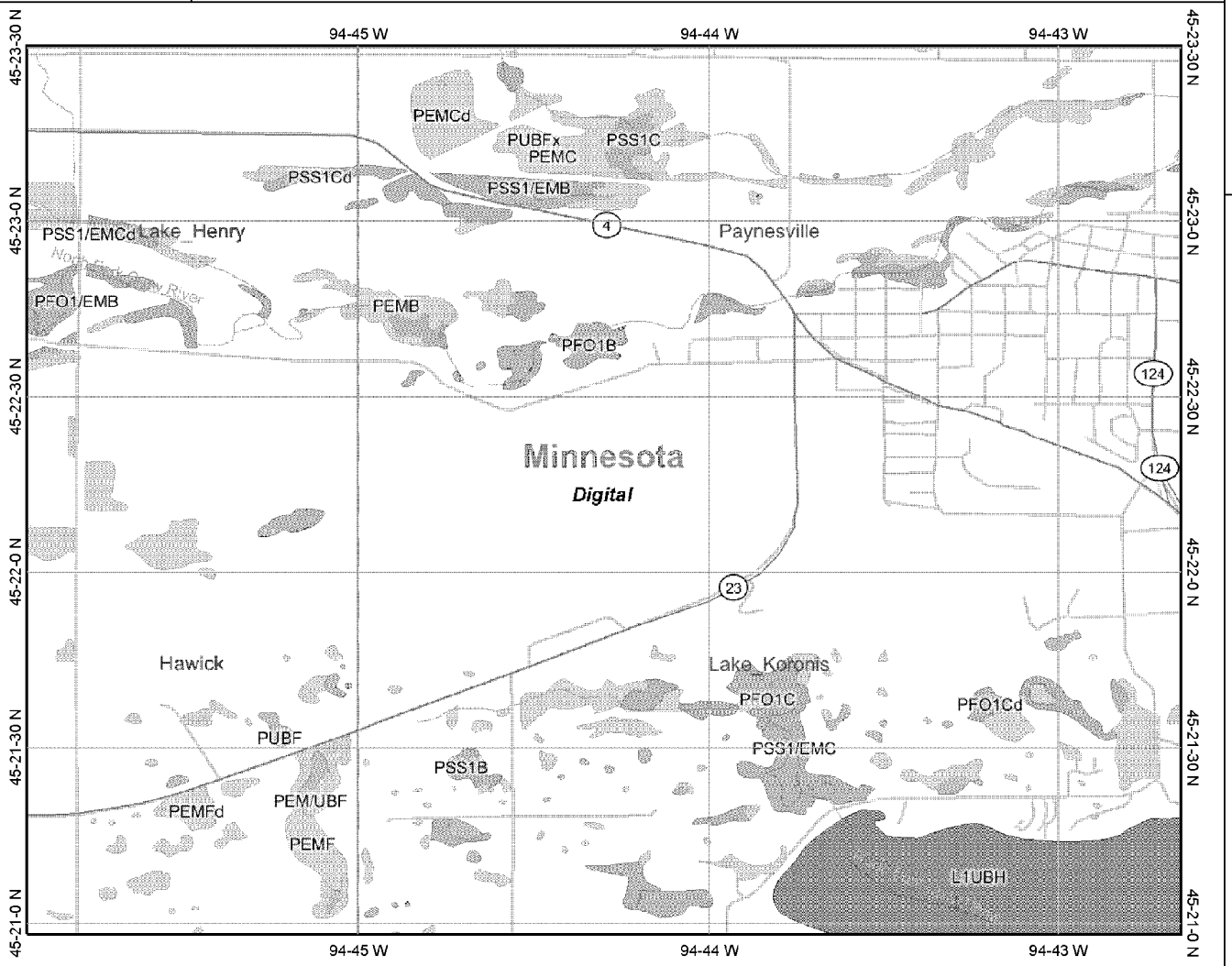
Minnesota Pollution Control Agency

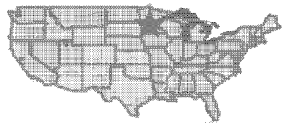
Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- HFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

STATE_02822471

Paynesville Wetland Map





Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:32,917

Map center: 45° 22' 14" N, 94° 44' 18" W

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2222.1515

STATE_02822472

Minnesota Unique Well No.
232277

County Stearns
Quad Lake Koronis
Quad ID 141C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 02/13/1989
Update Date 08/20/1993
Received Date

Well Name ROTHSTEIN, DENNIS
Township Range Dir Section Subsections Elevation 1182 **ft.**
122 32 W 17 CCDDCA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
141 **ft.**	141 **ft.**	06/23/1974

Drilling Method --

Well Address
RR 3 BOX 60
PAYNESVILLE MN

Geological Material	Color	Hardness	From	To
TOPSOIL			0	1
COARSE GRAVEL	BROWN		1	9
CLAY	BLUE		9	20
COARSE SAND	BROWN		20	38
SAND MIXED W/ CLAY	BLUE		38	52
CLAY	BLUE		52	82
COARSE SAND	BROWN		82	98
CLAY	BLUE		98	101
COARSE SAND & GRAVEL	BROWN		101	141

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Irrigation

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
12 in. to 26 ft.	lbs./ft.	
12 in. to 125 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between
12	125	12	26 ft. and 38 ft.
12	125	16	125 ft. and 141 ft.

Static Water Level
12 ft. from Land surface Date Measured 06/23/1974

PUMPING LEVEL (below land surface)
0 ft. after hrs. pumping 650 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Information from owner
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 363861 **Y:** 5025494

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed
Manufacturer's name Model number ___ HP 41 Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Turbine Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Aaa Well Co. 73107
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand & larger-brown
Aquifer Multiple
Depth to Bedrock **ft.**

County Well Index Online Report | **232277** | Printed 6/28/2008 HE-01205-07

STATE_02822473

2222.1516

Minnesota Unique Well No.
242890

County Stearns
Quad Lake Koronis
Quad ID 141C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 06/30/1992
Update Date 08/20/1993
Received Date

Well Name KORONIS HILLS GOLF COURS
Township Range Dir Section Subsections Elevation 1227 **ft.**
122 32 W 20 ABDCDB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
125 **ft.**	125 **ft.**	07/10/1990

Drilling Method

Drilling Fluid

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Irrigation

Casing Type **Joint** **Drive Shoe?** ☐ Yes ☐ No **Above/ Below ft.**

Casing Diameter	Weight	Hole Diameter

Open Hole from ft. to ft.

Screen

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
BOX 55
PAYNESVILLE MN 56362

Geological Material	Color	Hardness	From	To

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Name on mailbox
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 364615 **Y:** 5025094

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

First Bedrock **Last Strat**	**Aquifer** **Depth to Bedrock ft.**	**Well Contractor Certification** Minnesota Dept. of Natural Resources License Business Name	MNDNR Lic. Or Reg. No. Name of Driller
County Well Index Online Report	**242890**		Printed 6/28/2008 HE-01205-07

Minnesota Unique Well No.
433231

County Stearns
Quad Lake Koronis
Quad ID 141C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/22/1991
Update Date 08/20/1993
Received Date

Well Name BUERMAN, DUANE
Township Range Dir Section Subsections Elevation 1242 **ft.**
122 32 W 20 BDABAC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
129 **ft.**	129 **ft.**	08/08/1987

Drilling Method Non-specified Rotary

Well Address
29866 23 SH
PAYNESVILLE MN 56362

Geological Material	Color	Hardness	From	To
GRAVEL & BOULDERS	YELLOW		0	51
CLAY	YELLOW		51	82
CLAY	BLUE		82	90
SANDY CLAY	BLUE		90	95
CLAY	BLUE		95	119
SAND	BLUE		119	129

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 1 **ft.**

Casing Diameter	Weight	Hole Diameter
5 in. to 119 ft.	lbs./ft.	9 in. to 129 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	18	10	119 ft. and 129 ft.

Static Water Level
80 ft. from Land surface Date Measured 08/08/1987

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement	from 0 to 30 ft.	0
Grout Material: Cuttings	from 30 to 119 ft.	0

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number
Verification Address verification
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 364204 **Y:** 5025019

Nearest Known Source of Contamination
60 feet South West direction Tanks type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 08/08/1987
Manufacturer's name A.Y. MCDONALD Model number ___ HP 0.5 Volts 230
Length of drop Pipe 100 ft. Capacity 10 g.p.m
Type Submersible Material Plastic

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Steffl M.j. Well Co 34480 STEFFL, M.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **433231** | Printed 6/28/2008 HE-01205-07

STATE_02822476

2222.1519

Minnesota Unique Well No.
433242

County Stearns
Quad Lake Koronis
Quad ID 141C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/22/1991
Update Date 08/20/1993
Received Date

Well Name GNIFFKE, KENNETH/MARILYN
Township Range Dir Section Subsections Elevation 1241 **ft.**
122 32 W 20 BDBADA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
147 **ft.**	147 **ft.**	08/29/1987

Drilling Method Non-specified Rotary

Well Address
RR 3
PAYNESVILLE MN 56362

Geological Material	Color	Hardness	From	To
GRAVEL & BOULDERS	YELLOW		0	64
CLAY	BROWN		64	70
CLAY	BLUE		70	94
SAND	BLUE		94	97
CLAY & SAND STREAKS	BLUE		97	125
SAND	BLUE		125	147

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 1 **ft.**

Casing Diameter	Weight	Hole Diameter
5 in. to 137 ft.	lbs./ft.	9 in. to 147 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	12	10	137 ft. and 147 ft.

Static Water Level
80 ft. from Land surface Date Measured 08/29/1987

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement	from 10 to 30 ft.	0
Grout Material: Cuttings	from 30 to 147 ft.	0

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number
Verification Name on mailbox
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 364116 **Y:** 5024996

Nearest Known Source of Contamination
60 feet N direction Septic tank/drain field type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 08/29/1987
Manufacturer's name A.Y. MCDONALD Model number ___ HP 0.5 Volts 230
Length of drop Pipe 100 ft. Capacity 10 g.p.m
Type Submersible Material Plastic

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Steffl M.j. Well Co 34480 STEFFL, M.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report **433242** Printed 6/28/2008 HE-01205-07

STATE_02822477

Minnesota Unique Well No.
444144

County Stearns
Quad Paynesville
Quad ID 141B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 11/03/1992
Update Date 05/06/2005
Received Date

Well Name Q-PETROLEUM CORP.
Township Range Dir Section Subsections Elevation 1177 **ft.**
122 32 W 17 ACDD **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
22 ft.	19 ft.	03/08/1988

Drilling Method

Drilling Fluid

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type **Joint** **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter

Open Hole from ft. to ft.

Screen

Diameter	Slot/Gauze	Length	Set Between

Well Address
907 MINNESOTA ST W
PAYNESVILLE MN

Geological Material	Color	Hardness	From	To

Static Water Level
18 ft. from Land surface Date Measured 03/17/1988

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
MW 1
WELL SEALED 04-26-1991 BY M0054
ORIGINAL USE MW - MONITOR WELL

Grouting Information Well Grouted? ☑ Yes ☐ No

Located Minnesota Department of Health **Method** GPS SA Off (averaged)
Unique Number Verification N/A **Date** 10/18/2004
System *UTM - Nad83, Zone15, Meters* **X:** 364661 **Y:** 5026331

Nearest Known Source of Contamination
20 feet North West direction Tanks type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

STATE_02822478

2222.1521

First Bedrock **Last Strat**	**Aquifer** **Depth to Bedrock ft.**	**Well Contractor Certification** Dpra M0054 License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	**444144**	Printed 6/28/2008 HE-01205-07

Minnesota Unique Well No.
444145

County Stearns
Quad Paynesville
Quad ID 141B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 11/03/1992
Update Date 05/06/2005
Received Date

Well Name Q-PETROLEUM CORP.

Township	Range	Dir	Section	Subsections	Elevation	Elevation Method
122	32	W	17	ACDB	1177 ft.	Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
23 ft.	22 ft.	03/08/1988

Drilling Method

Drilling Fluid

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type **Joint** **Drive Shoe?** ☐ Yes ☐ No **Above/ Below** **ft.**

Casing Diameter	Weight	Hole Diameter

Open Hole from ft. to ft.

Screen

Diameter	Slot/Gauze	Length	Set Between

Well Address
907 MINNESOTA ST W
PAYNESVILLE MN

Geological Material	Color	Hardness	From	To

Static Water Level
19 ft. from Land surface Date Measured 03/12/1988

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
MW 2
WELL SEALED 04-26-1991 BY M0054
ORIGINAL USE MW - MONITOR WELL

Grouting Information Well Grouted? ☑ Yes ☐ No

Located Minnesota Department of Health
Method GPS SA Off (averaged)
Unique Number Verification N/A
Date 10/18/2004
System *UTM - Nad83, Zone15, Meters*
X: 364649 **Y:** 5026347

Nearest Known Source of Contamination
25 feet E direction Tanks type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

STATE_02822480

First Bedrock **Last Strat**	**Aquifer** **Depth to Bedrock ft.**	**Well Contractor Certification** Dpra M0054 License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	**444145**	Printed 6/28/2008 HE-01205-07

Minnesota Unique Well No.
450012

County Stearns
Quad Lake Koronis
Quad ID 141C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 05/07/1991
Update Date 08/20/1993
Received Date

Well Name FASEN, MARVIN/BERNADINE
Township Range Dir Section Subsections Elevation 1242 **ft.**
122 32 W 20 BDBCAD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
155 **ft.**	155 **ft.**	07/08/1988

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 1 **ft.**

Casing Diameter	Weight	Hole Diameter
5 in. to 145 ft.	lbs./ft.	9 in. to 155 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	18	10	145 ft. and 155 ft.

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
29992 23 SH
PAYNESVILLE MN 56362

Geological Material	Color	Hardness	From	To
GRAVEL	ORANGE		0	16
CLAY	ORANGE		16	25
CLAY & GRAVEL STREAKS	YELLOW	SOFT	25	70
CLAY	BLUE	HARD	70	119
COARSE SAND	BLUE		119	121
CLAY	BLUE	SOFT	121	129
COARSE SAND	BLUE		129	130
CLAY	BLUE	SOFT	130	143
SAND STREAKY	BLUE		143	155

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Address verification
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 364028 **Y:** 5024943

Nearest Known Source of Contamination
70 feet W direction Septic tank/drain field type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 07/09/1988
Manufacturer's name A.Y. MCDONALD Model number ___ HP 0.75 Volts 230
Length of drop Pipe 120 ft. Capacity 10 g.p.m
Type Submersible Material Plastic

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Steffl M.j. Well Co 34480 STEFFL, M.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report

450012

Printed 6/28/2008
HE-01205-07

STATE_02822482

2222.1525

Minnesota Unique Well No.
450835

County Stearns
Quad Lake Koronis
Quad ID 141C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 07/31/1991
Update Date 08/20/1993
Received Date

Well Name PAYNESVILLE I1.S.
Township Range Dir Section Subsections Elevation 1182 **ft.**
122 32 W 17 DDCCBB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
140 ft.	124 ft.	08/16/1988

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Irrigation

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
8 in. to 111 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
8	40	13	111 ft. and 124 ft.

Well Address
HWY 23
PAYNESVILLE MN 56362

Geological Material	Color	Hardness	From	To
DIRT	BLACK		0	1
SAND & GRAVEL			1	28
SAND BLUE CLAY	BLUE		28	30
MEDIUM TO COARSE SAND			30	42
CLAY	BLUE		42	72
CLAY	YELLOW		72	94
SAND			94	96
CLAY	YELLOW		96	99
SAND			99	100
CLAY	YELLOW		100	112
DIRTY SAND			112	115
NICE SAND MEDIUM TO COARSE			115	124
SAND	BLACK		124	140

Static Water Level
21 ft. from Land surface Date Measured 08/16/1988

PUMPING LEVEL (below land surface)
46 ft. after hrs. pumping 150 g.p.m.

Well Head Completion
Pitless adapter manufacturer MERRILL Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement from 8 to 110 ft. 0

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Information from owner
Date N/A

System *UTM - Nad83, Zone15, Meters*
X: 364755 **Y:** 5025524

Nearest Known Source of Contamination
50 feet _direction Septic tank/drain field type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 08/18/1988
Manufacturer's name GOULDS Model number 15OH10-4 HP 10 Volts 230
Length of drop Pipe 102 ft. Capacity _g.p.m Type Submersible Material Steel (black or low carbon)

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Thein Well Co. 34050 THEIN, R.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-black
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report

450835

Printed 6/28/2008
HE-01205-07

STATE_02822483

2222.1526

Minnesota Unique Well No.
511855

County Stearns
Quad Lake Koronis
Quad ID 141C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/22/1991
Update Date 08/20/1993
Received Date

Well Name HEINEMAN, GARY

Township	Range	Dir	Section	Subsections	Elevation
122	32	W	20	BDBDBA	1241 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
187 ft.	187 ft.	11/07/1989

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 182 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** SMITH **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
0	15	0	0 ft. and ft.

Well Address
29958 23 SH
PAYNESVILLE MN 56362

Geological Material	Color	Hardness	From	To
GRAVEL			0	91
CLAY			91	100
GRAVEL			100	140
CLAY			140	170
WATER SAND			170	187

Static Water Level
45 ft. from Land surface Date Measured 11/07/1989

PUMPING LEVEL (below land surface)
0 ft. after hrs. pumping 12 g.p.m.

Well Head Completion
Pitless adapter manufacturer WHITEWATER Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement from 0 to 30 ft. 0

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Information from owner
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 364081 **Y:** 5024957

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 10/13/1989
Manufacturer's name FLINT & WALLING Model number __ HP 0.75 Volts
Length of drop Pipe 160 ft. Capacity _ g.p.m
Type Submersible Material Plastic

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Torgerson Well Co. 27056 TORGERSON, S.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

STATE_02822484

2222.1527

County Well Index Online Report	511855	Printed 6/28/2008 HE-01205-07

Minnesota Unique Well No.
589697

County Stearns
Quad Paynesville
Quad ID 141B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 09/30/1998
Update Date 10/12/2004
Received Date

Well Name STRODTMAN, HARRY&THERESA
Township Range Dir Section Subsections Elevation 1177 **ft.**
122 32 W 17 BDCC **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
117 **ft.**	117 **ft.**	04/23/1997

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 112 ft.	lbs./ft.	8 in. to 117 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	12	5	112 ft. and 117 ft.

Static Water Level
15 ft. from Land surface Date Measured 04/23/1997

PUMPING LEVEL (below land surface)
40 ft. after 0.5 hrs. pumping 50 g.p.m.

Well Head Completion
Pitless adapter manufacturer MERRILL Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
514 GRAND ST
PAYNESVILLE MN 56362

Geological Material	Color	Hardness	From	To
LOAM	BLACK	MEDIUM	0	1
GRAVEL	YELLOW	MEDIUM	1	18
CLAY	YELLOW	MEDIUM	18	25
SAND 18 SLOT	YELLOW		25	27
CLAY	BLUE	MEDIUM	27	30
SAND 18 SLOT	TAN		30	44
CLAY	GRAY	MEDIUM	44	74
CLAY	GREEN	MEDIUM	74	81
SAND 12 SLOT	TAN		81	82
CLAY	TAN/GRN	MEDIUM	82	100
CLAY		MEDIUM	100	112
SAND	GRAY		112	117
CLAY	GRAY	SOFT	117	117

NO REMARKS

Located Minnesota Department of Health **Method** GPS SA Off (averaged)
Unique Number Verification N/A **Date** 10/18/2004
System *UTM - Nad83, Zone15, Meters* **X:** 364043 **Y:** 5026270

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Other	from 0 to 40 ft.	4 bags
Grout Material: Cuttings	from 40 to 117 ft.	

Nearest Known Source of Contamination
130 feet N direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 04/22/1997
Manufacturer's name LOWARA Model number 101S05
HP 0.5 Volts 230
Length of drop Pipe 40 ft. Capacity 10 g.p.m
Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

STATE_02822486

First Bedrock **Last Strat**	**Aquifer** **Depth to Bedrock ft.**	**Well Contractor Certification** Steffl M.j. Well Co 34480 DAHL, J. License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	**589697**	Printed 6/28/2008 HE-01205-07

Minnesota Unique Well No.
599745

County Stearns
Quad Paynesville
Quad ID 141B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 09/30/1998
Update Date 01/16/2002
Received Date

Well Name MEAGHER, PATRICK
Township Range Dir Section Subsections Elevation 1174 **ft.**

122	32	W	17	CBAA

Elevation Method Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
64 **ft.**	64 **ft.**	05/14/1998

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 44 ft.	lbs./ft.	8 in. to 64 ft.

Well Address
30078 CEMETARY RD
PAYNESVILLE MN 56362

Open Hole from ft. to ft.

Screen YES **Make** EAGLE **Type** plastic

Diameter	Slot/Gauze	Length	Set Between
	16	20	44 ft. and 64 ft.

Geological Material	Color	Hardness	From	To
FINE SAND	BROWN		0	8
CLAY	GRAY	MEDIUM	8	38
GRAVEL COARSE	WHITE		38	64

Static Water Level
15 ft. from Land surface Date Measured 05/14/1998

PUMPING LEVEL (below land surface)
45 ft. after 2 hrs. pumping 25 g.p.m.

Well Head Completion
Pitless adapter manufacturer MERRILL Model SPK
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Bentonite from 0 to 33 ft.

Located Minnesota Department of Health **Method** GPS SA Off (averaged)
Unique Number Verification N/A **Date** 10/18/2004
System *UTM - Nad83, Zone15, Meters* **X:** 363884 **Y:** 5026202

Nearest Known Source of Contamination
52 feet W direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 05/18/1998
Manufacturer's name GRUNDFOS Model number __ HP 0.5 Volts 230
Length of drop Pipe 40 ft. Capacity __g.p.m
Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

STATE_02822488

2222.1531

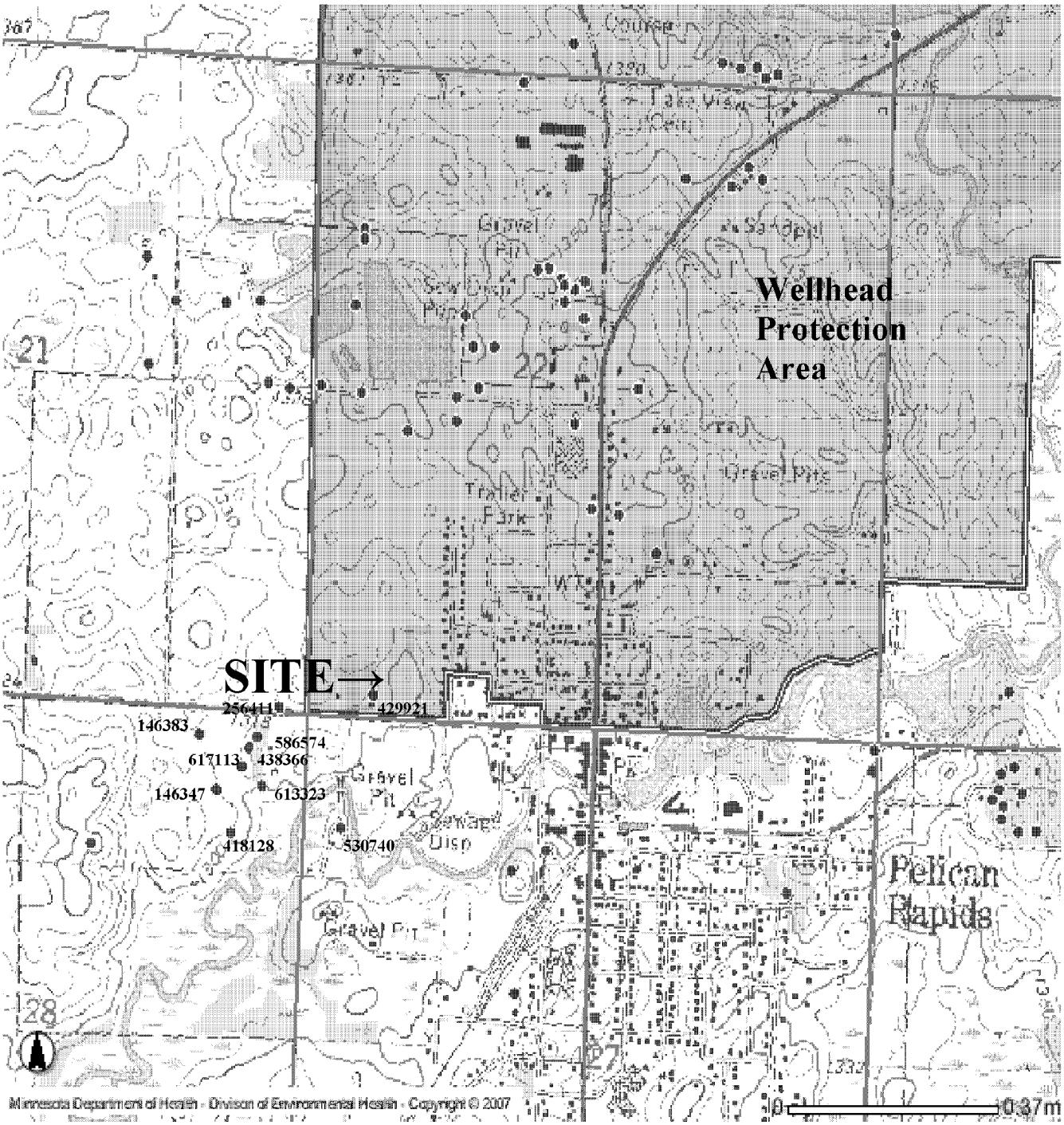
First Bedrock	**Aquifer**	**Well Contractor Certification**	
Last Strat	**Depth to Bedrock ft.**	Don's Pump & Well / License Business Name	61584 / Lic. Or Reg. No. — MEULEBROEK, D / Name of Driller
County Well Index Online Report	**599745**		Printed 6/28/2008 HE-01205-07

SITE SUMMARY

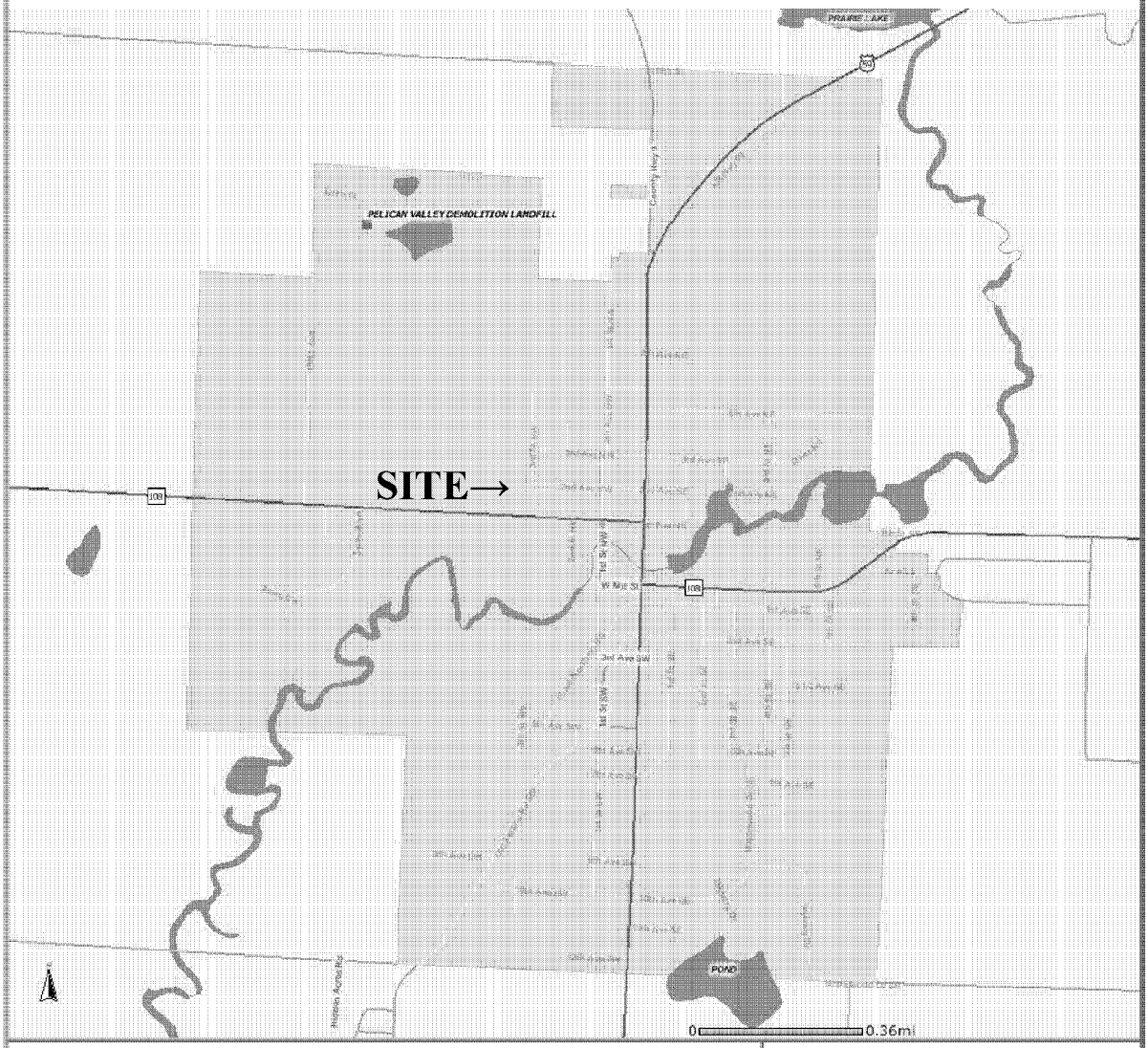
Site Name:	Pelican Rapids
Fire Department:	Pelican Rapids Fire Department 709 5th Street SE Pelican Rapids, MN 56572
Site Contact:	Trevor Steeves, Fire Chief 218-863-5211 prfd@loretel.net

Training Location:	2nd Avenue NW and 4th Street, Pelican Rapids
Type of foam used in training:	AFFF: U.S. First Strike Class A: Ansul Silv-ex
Foam training frequency:	Bi-Annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Ground, storm sewer
Annual foam use:	AFFF: 5 gallons Class A: 5 gallons
Nearest surface water:	Pelican River, less than 1/4 mile south
Nearest wetland:	Less than 1/4 mile south
Nearest water well:	At or adjacent to training site
Nearest Wellhead Protection Area:	Training site located in Wellhead Protection Area
SITE RANKING:	**16**

PELICAN RAPIDS CWI Well Map



Pelican Rapids *What's In My Neighborhood* Map



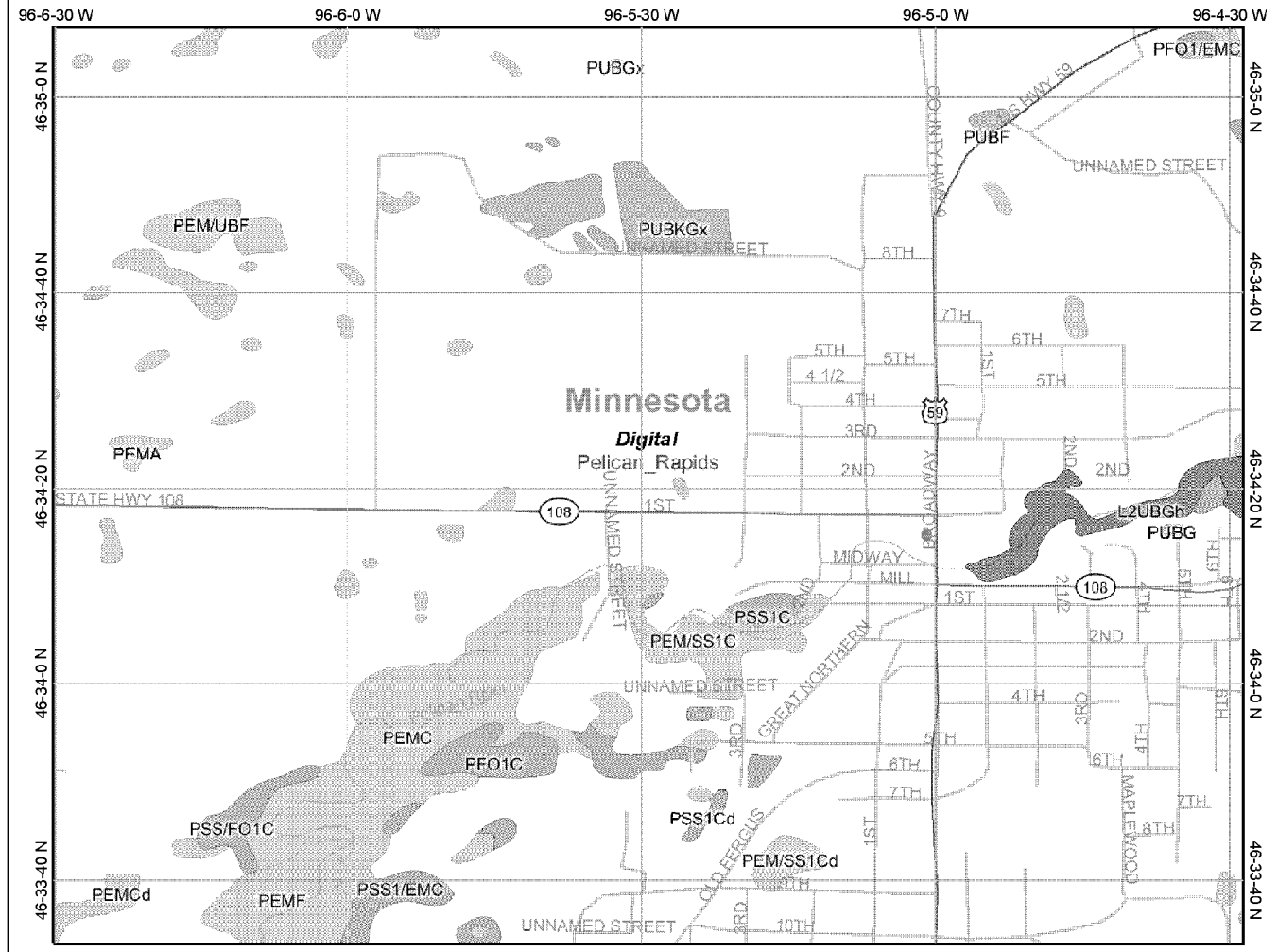
Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

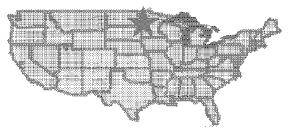
Minnesota Pollution Control Agency

Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

Pelican Rapids Wetland Map





Legend

Ohlo_wet_scan
- 0
- 1
- Out of range

Interstate

Major Roads

Other Road
Interstate
State highway
US highway

Roads

Cities

USGS Quad Index 24K

Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan

NHD Streams

Counties 100K

States 100K
- South America
- North America

Scale: 1:20,224

Map center: 46° 34' 20" N, 96° 5' 29" W

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

2222.1536

STATE_02822493

Minnesota Unique Well No.
146347

County Otter Tail
Quad Pelican Rapids
Quad ID 239D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/17/1988
Update Date 08/17/2000
Received Date

Well Name SWAN, PAUL

Township	Range	Dir	Section	Subsections	Elevation
136	43	W	28	AABDCD	1311 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
80 ft.	80 ft.	10/30/1978

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 1 ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 70 ft.	11 lbs./ft.	

Well Address

PELICAN RAPIDS MN

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	12	4	70 ft. and 74 ft.

Geological Material	Color	Hardness	From	To
TOP SOIL	BLACK		0	2
SANDY CLAY	YELLOW		2	21
CLAY	BLUE		21	24
SAND	YELLOW		24	40
SAND FINE TO MEDIUM	GRAY		40	80

Static Water Level
15 ft. from Land surface Date Measured 10/30/1978

PUMPING LEVEL (below land surface)
18 ft. after 2 hrs. pumping 25 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Bentonite from 8 to 50 ft.

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Information from neighbor
Date N/A

System *UTM - Nad83, Zone15, Meters* **X:** 262650 **Y:** 5162005

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☑ Not Installed Date Installed 11/08/1978
Manufacturer's name FLINT & WALLING Model number 5BA8
__ HP 0.5 Volts 230
Length of drop Pipe 54 ft. Capacity 10 g.p.m Type Submersible Material Steel (black or low carbon)

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Robertson Well Co. 26144 CATOE, R.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-gray
Aquifer Quat. Bnried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **146347** | Printed 6/28/2008 HE-01205-07

Minnesota Unique Well No.
146383

County Otter Tail
Quad Pelican Rapids
Quad ID 239D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/17/1988
Update Date 08/17/2000
Received Date

Well Name LUNDHAGEN, NORMAN

Township	Range	Dir	Section	Subsections	Elevation
136	43	W	28	AABACB	1307 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
75 ft.	75 ft.	11/03/1978

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 1 ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 71 ft.	11 lbs./ft.	

Well Address

PELICAN RAPIDS MN

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	18	4	71 ft. and 75 ft.

Geological Material	Color	Hardness	From	To
TOP SOIL	BLACK		0	1
CLAY	YELLOW		1	22
SAND FINE	GRAY		22	65
SAND MEDIUM	GRAY		65	75

Static Water Level
12 ft. from Land surface Date Measured 11/03/1978

PUMPING LEVEL (below land surface)
25 ft. after 2 hrs. pumping 20 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Bentonite from 8 to 45 ft.

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Information from neighbor
Date N/A

System *UTM - Nad83, Zone15, Meters* **X:** 262602 **Y:** 5162141

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☑ Not Installed Date Installed 11/08/1978
Manufacturer's name FLINT AND WALLING Model number ___ HP 0.5 Volts 230
Length of drop Pipe 54 ft. Capacity 10 g.p.m
Type Submersible Material Galvanized

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Robertson Well Co. 26144 WAGNER, W.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-gray
Aquifer Quat. Bnried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **146383** | Printed 6/28/2008 HE-01205-07

Minnesota Unique Well No.
256411

County Otter Tail
Quad Pelican Rapids
Quad ID 239D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date
Update Date 09/20/2004
Received Date

Well Name USGS 133
Township Range Dir Section Subsections Elevation 1318 **ft.**
136 43 W 21 DDDDCC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
17 ft.	17 ft.	08/01/1979

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Scientific Investigation

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter	Weight	Hole Diameter

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
ROADFILL			0	2
TILL, SANDY	BROWN		2	17

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located United States Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number
Verification Information from owner
Date 09/27/2004
System *UTM - Nad83, Zone15, Meters*
X: 262827 **Y:** 5162208

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
United States Geological Survey USGS
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Till-brown
Aquifer
Depth to Bedrock **ft.**

STATE_02822496

County Well Index Online Report	256411	Printed 6/28/2008 HE-01205-07

Minnesota Unique Well No.
418128

County Otter Tail
Quad Pelican Rapids
Quad ID 239D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/17/1988
Update Date 03/11/2005
Received Date

Well Name EVENSON, KERRY

Township	Range	Dir	Section	Subsections	Elevation	Elevation Method
136	43	W	28	AADCBB	1304 ft.	7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
80 ft.	80 ft.	05/23/1986

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/ Below** ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 58 ft.	lbs /ft.	

Well Address

PELICAN RAPIDS MN 56572

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	10	4	58 ft. and 62 ft.

Geological Material	Color	Hardness	From	To
TOP SOIL	BLACK		0	1
CLAY	YELLOW		1	16
SAND	YELLOW		16	30
SAND	GRAY		30	65
SILTY CLAY	GRAY		65	80

Static Water Level
15 ft. from Land surface Date Measured 05/23/1986

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
PLASTIC CASING RIVERREST BLK 1 LOT 7

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Bentonite from 10 to 50 ft.

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Information from owner
Date N/A

System *UTM - Nad83, Zone15, Meters*
X: 262691 **Y:** 5161898

Nearest Known Source of Contamination
90 feet N direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☑ Not Installed Date Installed 05/28/1986
Manufacturer's name FLINT-WALLING Model number 4F10B05-30K
HP 0.5 Volts 230
Length of drop Pipe 39 ft. Capacity 10 g.p.m
Type Submersible Material Galvanized

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

First Bedrock
Last Strat Unknown deposit type-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

Well Contractor Certification
Robertson Well Co. 26144 CATOE, R.
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report | **418128** | Printed 6/28/2008 HE-01205-07

STATE_02822498

2222.1541

Minnesota Unique Well No.
429921

County Otter Tail
Quad Pelican Rapids
Quad ID 239D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 01/31/1991
Update Date 02/04/2004
Received Date

Well Name MAGNUSSON, MIKE

Township	Range	Dir	Section	Subsections	Elevation
136	43	W	22	CCCDAC	1341 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
107 ft.	107 ft.	06/21/1988

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 1 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 103 ft.	lbs./ft.	6.75 in. to 107 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	12	4	103 ft. and 107 ft.

Well Address
P.O.BOX 50
PELICAN RAPIDS MN 56572

Geological Material	Color	Hardness	From	To
CLAY	YELLOW	SOFT	0	21
CLAY-GRAVEL	BLUE	HARD	21	32
GRAVEL SAND	GRAY	SOFT	32	52
GRAVEL CLAY	GRAY	HARD	52	84
SAND CLAY	BROWN	SOFT	84	102
SAND	BROWN	SOFT	102	107

Static Water Level
15 ft. from Land surface Date Measured 06/21/1988

PUMPING LEVEL (below land surface)
107 ft. after 1 hrs. pumping 60 g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model 7PSB4554C1
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
PLASTIC CASING RJ MILLER ADDN LOTS 3-5

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Neat Cement from to ft.

Located Minnesota Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Information from owner **Date** N/A

System *UTM - Nad83, Zone15, Meters* **X:** 263092 **Y:** 5162238

Nearest Known Source of Contamination
100 feet South East direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☑ Not Installed Date Installed 06/22/1988
Manufacturer's name STA-RITE Model number 8P4C02S
HP 0.5 Volts 230
Length of drop Pipe 80 ft. Capacity 10 g.p.m
Type Submersible Material Plastic

Abandoned Wells Does property have any not in use and not sealed well(s)?
☑ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification

License Business Name	Lic. Or Reg. No.	Name of Driller
Antonsen Well Co.	56132	DAVE & JERRY

First Bedrock
Last Strat Sand-brown
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **429921** | Printed 6/28/2008 HF-01205-07

STATE_02822499

2222.1542

Minnesota Unique Well No.
438366

County Otter Tail
Quad Pelican Rapids
Quad ID 239D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 01/31/1991
Update Date 08/17/2000
Received Date

Well Name PAULSON, CHUCK
Township Range Dir Section Subsections Elevation 1318 **ft.**
136 43 W 28 AAABCD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
80 **ft.**	80 **ft.**	09/01/1987

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 1 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 69 ft.	lbs./ft.	8 in. to 80 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	20	4	69 ft. and 73 ft.

Well Address
BOX 1
PELICAN RAPIDS MN 56572

Geological Material	Color	Hardness	From	To
TOP SOIL	BLACK		0	1
CLAY	YELLOW		1	28
SAND	GRAY		28	51
SAND	GRAY		51	75
CLAY	BLUE		75	80

Static Water Level
20 ft. from Land surface Date Measured 09/01/1987

PUMPING LEVEL (below land surface)
30 ft. after 1 hrs. pumping 15 g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
PLASTIC CASING

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Bentonite from 10 to 50 ft.

Located Minnesota Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number
Verification Information from owner **Date** N/A

System *UTM - Nad83, Zone15, Meters* **X:** 262742 **Y:** 5162108

Nearest Known Source of Contamination
85 feet W direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☑ Not Installed Date Installed 09/17/1987
Manufacturer's name AERMOTOR Model number A12B-50
HP 0.5 Volts 230
Length of drop Pipe 40 ft. Capacity 12 g.p.m
Type Submersible Material Plastic

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Robertson Well Co. 26144 CATOE, R.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Clay-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report **438366** Printed 6/28/2008 HE-01205-07

Minnesota Unique Well No.
530740

County Otter Tail
Quad Pelican Rapids
Quad ID 239D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 06/22/1994
Update Date 07/13/2004
Received Date

Well Name KONICKA, BERNARDINE

Township	Range	Dir	Section	Subsections	Elevation
136	43	W	27	BBCACB	1301 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
65 ft.	65 ft.	09/22/1993

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** Glued **Drive Shoe?** ☐ Yes ☑ No **Above/ Below** ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 57 ft.	lbs./ft.	6.25 in. to 65 ft.

Open Hole from ft. to ft.

Screen YES **Make** WESCO **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	6	8	57 ft. and 65 ft.

Well Address
620 108 HY
PELICAN RAPIDS MN 56572

Geological Material	Color	Hardness	From	To
GRAVEL & ROCK	GRAY	SOFT	0	40
SANDY CLAY	GRAY	SOFT	40	45
FINE CLEAN SAND	GRAY	SOFT	45	65

Static Water Level
6 ft. from Land surface Date Measured 09/22/1993

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer MAASS Model 4JCLP
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Bentonite from 7 to 50 ft. 3 bags

Located Minnesota Department of Health
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification N/A
Date 07/12/2004
System *UTM - Nad83, Zone15, Meters*
X: 263001 **Y:** 5161910

Nearest Known Source of Contamination
130 feet W direction Body of water type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 09/29/1993
Manufacturer's name GRUNDFOS Model number JS10-05
HP 0.5 Volts 220
Length of drop Pipe 40 ft. Capacity 10 g.p.m
Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Olson Well Drilling 14229 OLSON, P.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report **530740** Printed 6/28/2008 HE-01205-07

STATE_02822501

2222.1544

Minnesota Unique Well No.
586574

County Otter Tail
Quad Pelican Rapids
Quad ID 239D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 05/02/1997
Update Date 07/14/2004
Received Date

Well Name FARNAM, DUANE B.
Township Range Dir Section Subsections Elevation 1315 **ft.**
136 43 W 28 AAABDB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
99 ft.	99 ft.	11/29/1996

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to ft.	lbs./ft.	8 in. to 30 ft.
		6.75 in. to 99 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	15	5	94 ft. and 99 ft.

Well Address
HY 108 W OF PELICAN
MN

Geological Material	Color	Hardness	From	To
CLAY SAND	YEL/BRN	HARD	0	16
CLAY	BLUE	HARD	16	25
CLAY GRAVEL	BLU/GRY	SOFT	25	37
SAND	GRAY	SFT-HRD	37	50
CLAY SAND	GRY/BLU	HARD	50	60
FINE SAND	GRAY	SOFT	60	81
SAND	GRAY	SOFT	81	88
FINE SAND	GRAY	SOFT	88	95
SAND	GRAY	SOFT	95	99

Static Water Level
8 ft. from Land surface Date Measured 11/29/1996

PUMPING LEVEL (below land surface)
99 ft. after 1 hrs. pumping 75 g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model 7PS45B54C0
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Bentonite from 0 to 31 ft.

Located Minnesota Department of Health
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification N/A
Date 07/13/2004
System *UTM - Nad83, Zone15, Meters*
X: 262766 **Y:** 5162134

Nearest Known Source of Contamination
60 feet W direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 12/00/1996
Manufacturer's name STA-RITE Model number 15P4D02J
HP 0.75 Volts 230
Length of drop Pipe 40 ft. Capacity 10 g.p.m
Type Submersible Material Plastic

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
Antonsen Well Co. 56132 ANTONSEN, D.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report

586574

Printed 6/28/2008
HE-01205-07

Minnesota Unique Well No.
613323

County Otter Tail
Quad Pelican Rapids
Quad ID 239D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/06/1999
Update Date 03/11/2005
Received Date

Well Name BERG, MIKE
Township Range Dir Section Subsections Elevation 1301 **ft.**
136 43 W 28 AAACDD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
81 ft.	81 ft.	06/19/1998

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 77 ft.	2 lbs./ft.	7 in. to 81 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	12	5	77 ft. and 81 ft.

Geological Material	Color	Hardness	From	To
SAND	YELLOW	SOFT	0	1
CLAY	YELLOW	SOFT	2	34
COARSE GRAVEL BOULDERS	RED	MEDIUM	35	46
CLAY	BLUE	MEDIUM	48	61
COARSE SAND	GRAY	SOFT	62	81

Static Water Level
10 ft. from Land surface Date Measured 06/19/1998

PUMPING LEVEL (below land surface)
10 ft. after 2 hrs. pumping 40 g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model 4B0
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Bentonite from 0 to 30 ft. 3 bags

Located Minnesota Department of Health
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification N/A
Date 07/12/2004
System *UTM - Nad83, Zone15, Meters*
X: 262779 **Y:** 5162014

Nearest Known Source of Contamination
60 feet W direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 06/19/1998
Manufacturer's name AERMOTOR Model number T12 50
HP 0.5 Volts 230
Length of drop Pipe 40 ft. Capacity 12 g.p.m
Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
Krueger Well Drll | 03669 | LINDSAY, JIM
License Business Name | Lic. Or Reg. No. | Name of Driller

First Bedrock
Last Strat Sand-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report

613323

Printed 6/28/2008
HE-01205-07

STATE_02822503

2222.1546

Minnesota Unique Well No.
617113

County Otter Tail
Quad Pelican Rapids
Quad ID 239D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 07/15/1999
Update Date 07/13/2004
Received Date

Well Name AHOKAS, STEVE
Township Range Dir Section Subsections Elevation 1310 **ft.**
136 43 W 28 AAACBC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
70 ft.	70 ft.	09/11/1998

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 60 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	10	10	60 ft. and 70 ft.

Well Address
PO BOX 149
PELICAN RAPIDS MN 56572

Geological Material	Color	Hardness	From	To
SANDY CLAY	BROWN	HARD	0	18
SAND	BROWN	SOFT	18	28
SANDY CLAY	BROWN	HARD	28	59
FINE SAND	GRAY	SOFT	59	70

Static Water Level
45 ft. from Land surface Date Measured 09/11/1998

PUMPING LEVEL (below land surface)
52 ft. after 1 hrs. pumping 15 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
SWAN CIRCLE

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Bentonite from 0 to 40 ft. 3 bags

Located Minnesota Department of Health
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification N/A
Date 07/12/2004
System *UTM - Nad83, Zone15, Meters*
X: 262722 **Y:** 5162062

Nearest Known Source of Contamination
62 feet North East direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
Vareberg Well Co. 03424 KRAFT, C.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

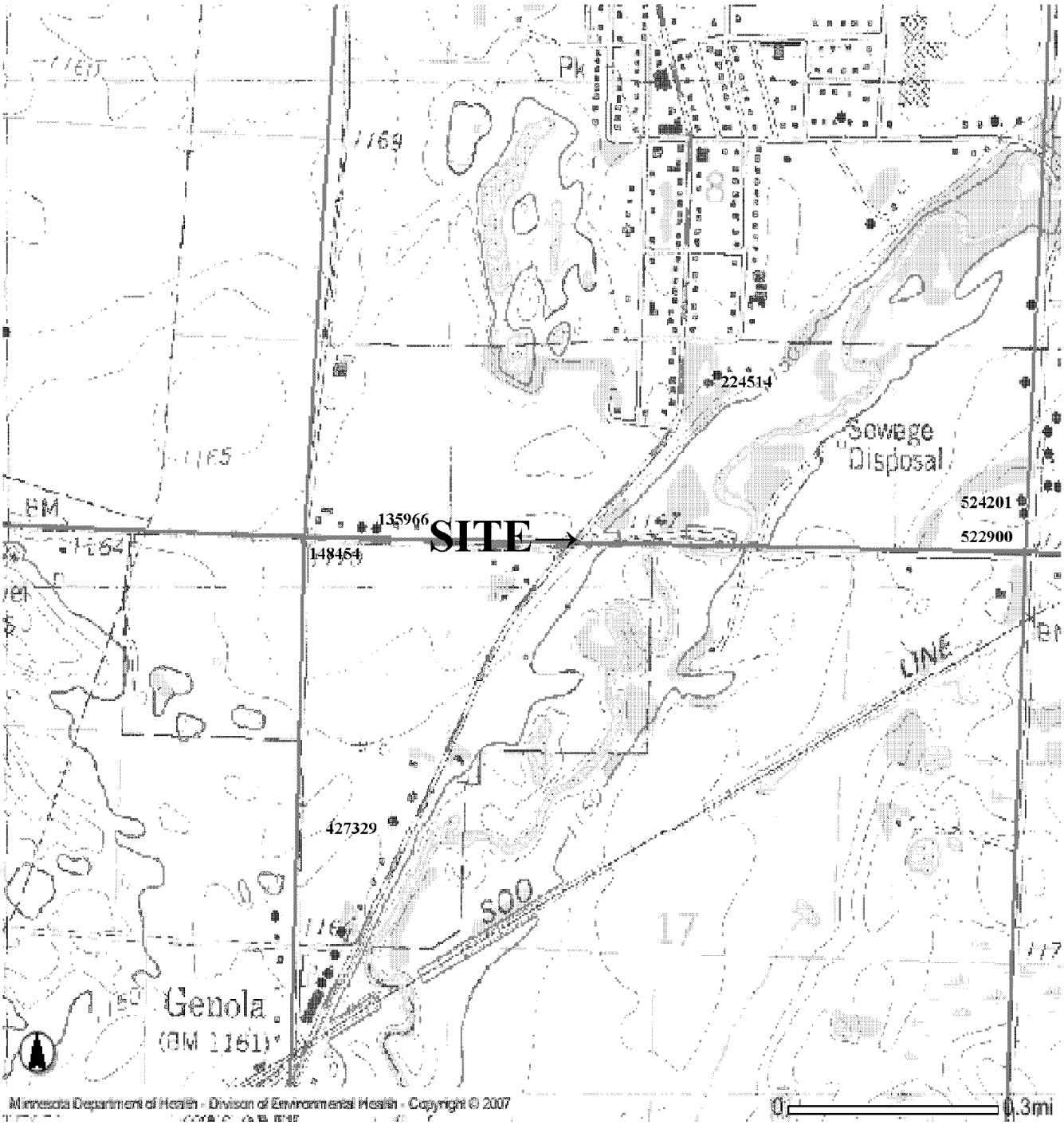
County Well Index Online Report **617113** Printed 6/28/2008 HE-01205-07

SITE SUMMARY

Site Name:	Pierz
Fire Department:	Pierz Fire Department PO Box 340 Pierz, MN 56364
Site Contact:	Brian Jay Boxer, Fire Chief 320-468-6608 pierzfire@mywdo.com

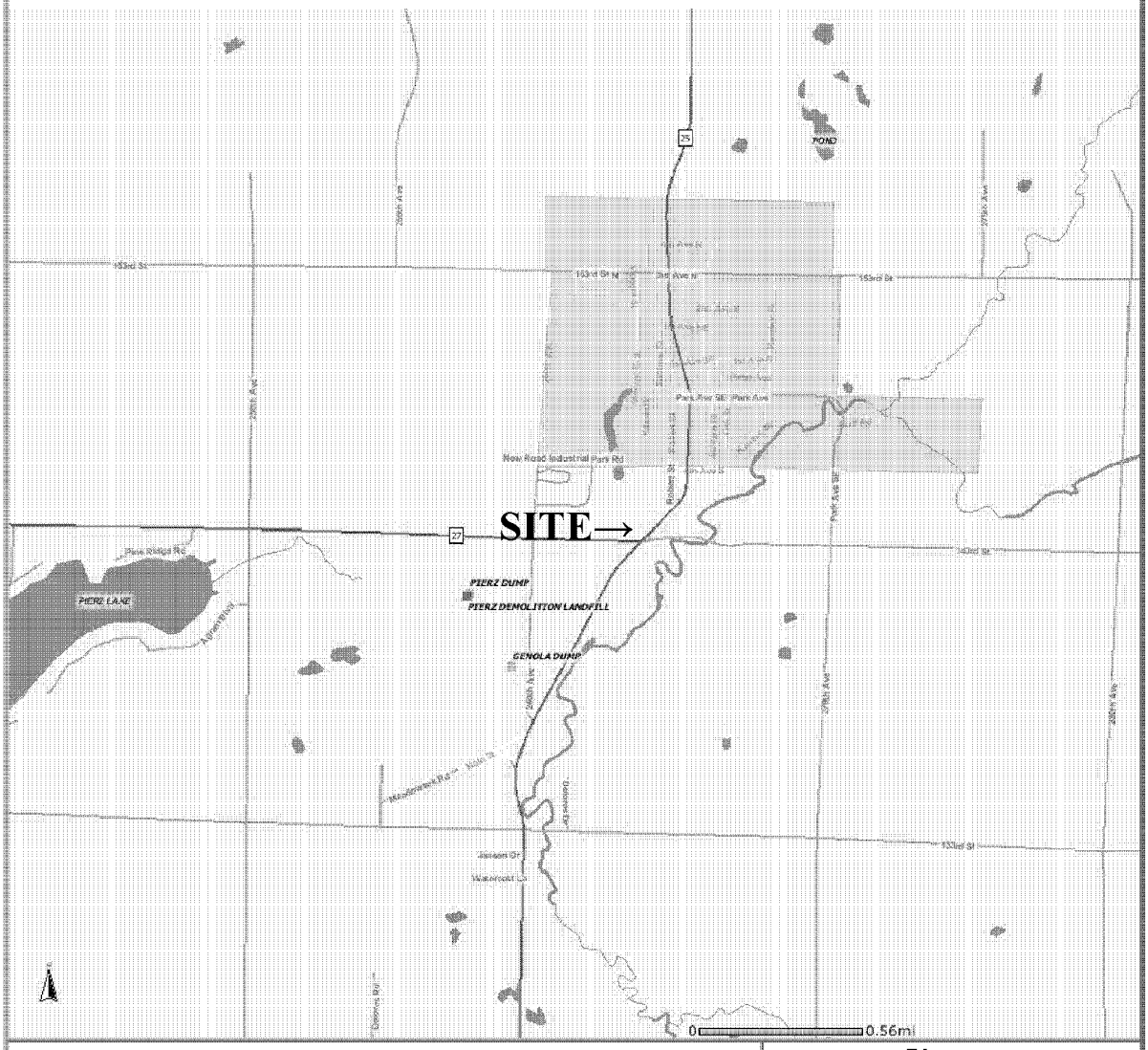
Training Location:	Intersection of Highways 25 and 27, Pierz. Last training in 2005.
Type of foam used in training:	AFFF: 3M
Foam training frequency:	Bi-Annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Ground
Annual foam use:	AFFF: not specified Class A: 25 gallons
Nearest surface water:	Skunk River, less than 1/8 mile east
Nearest wetland:	Less than 1/8 mile southeast
Nearest water well:	Approximately 1/4 mile west
Nearest Wellhead Protection Area:	More than 1 mile
SITE RANKING:	**17**

PIERZ CWI Well Map



STATE_02822506

Pierz *What's In My Neighborhood* Map



Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

Minnesota Pollution Control Agency

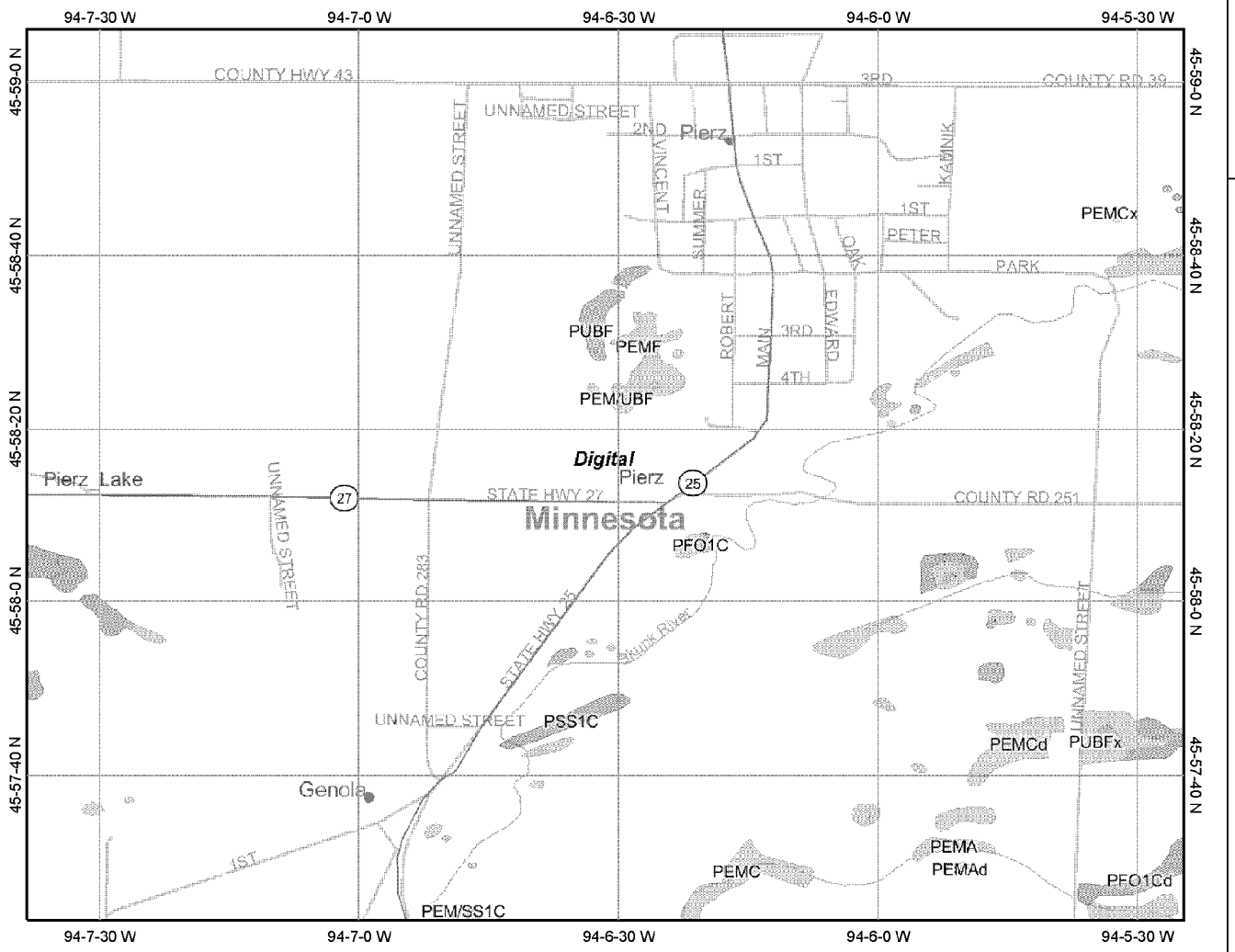
Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

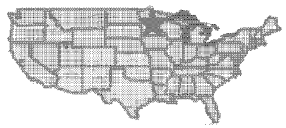
STATE_02822507

2222.1550

Pierz Wetland Map



Map center: 45° 58' 15" N, 94° 6' 32" W



Legend

Ohio_wet_scan
- 0
- 1
- Out of range

Interstate

Major Roads
- Other Road
- Interstate
- State highway
- US highway

Roads

Cities

USGS Quad Index 24K

Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan

NHD Streams

Counties 100K

States 100K
- South America
- North America

Scale: 1:22,262

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

2222.1551

STATE_02822508

Minnesota Unique Well No.
135966

County Morrison
Quad Pierz
Quad ID 175A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/13/1988
Update Date 03/09/1999
Received Date

Well Name GULDEN, LEROY
Township Range Dir Section Subsections Elevation 1169 **ft.**
40 30 W 8 CCCDCC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
73 ft.	73 ft.	06/10/1977

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 1 **ft.**

Casing Diameter	Weight	Hole Diameter
6 in. to 73 ft.	19 lbs./ft.	6 in. to 73 ft.

Open Hole from 73 ft. to 73 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
RR 3
PIERZ MN 56364

Geological Material	Color	Hardness	From	To
GRAVEL & BOULDERS	BROWN	HARD	0	5
SAND	BROWN	HARD	5	45
CLAY	YELLOW	HARD	45	67
GRAVEL & WATER			67	73

Static Water Level
25 ft. from Land surface Date Measured 06/10/1977

PUMPING LEVEL (below land surface)
45 ft. after hrs. pumping 25 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☑ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Information from neighbor
Date N/A

System *UTM - Nad83, Zone15, Meters*
X: 413823 **Y:** 5091329

Nearest Known Source of Contamination
75 feet S direction Septic tank/drain field type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Donabauer Well Co. 73061 DONABAUER, G.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Gravel (+larger)
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock **ft.**

County Well Index Online Report | **135966** | Printed 6/28/2008 HE-01205-07

STATE_02822509

Minnesota Unique Well No.
148454

County Morrison
Quad Pierz
Quad ID 175A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/13/1988
Update Date 03/09/1999
Received Date

Well Name BRAUSEN, GARY
Township Range Dir Section Subsections Elevation 1168 **ft.**
40 30 W 8 CCCCDC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
87 ft.	87 ft.	04/11/1978

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 1 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 79 ft.	10.89 lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	12	8	79 ft. and 87 ft.

Well Address
PIERZ MN 56364

Geological Material	Color	Hardness	From	To
GRAVEL	BROWN		0	20
CLAY & ROCKS	BROWN	SFT-HRD	20	71
DIRTY SAND	BROWN	SOFT	71	79
SAND (FINE)	GRAY	SOFT	79	87

Static Water Level
29 ft. from Land surface Date Measured 04/11/1978

PUMPING LEVEL (below land surface)
49 ft. after hrs. pumping 15 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☑ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Other, note in remarks
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 413789 **Y:** 5091331

Nearest Known Source of Contamination
80 feet South East direction Septic tank/drain field type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
North Star Drilling 48038 FLICKER, D.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **148454** | Printed 6/28/2008 HE-01205-07

Minnesota Unique Well No.
224514

County Morrison
Quad Pierz
Quad ID 175A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/13/1988
Update Date 03/09/1999
Received Date

Well Name VERNIG, LEO
Township Range Dir Section Subsections Elevation 1170 **ft.**
40 30 W 8 DCBBDD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
66 **ft.**	66 **ft.**	00/00/1969

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 66 ft.	lbs./ft.	

Open Hole from 66 ft. to 66 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
PIERZ MN 56364

Geological Material	Color	Hardness	From	To
TOPSOIL			0	3
GRAVEL			3	47
BROWNISH-GRAY CLAY			47	66
SAND			66	66

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number
Verification Information from neighbor
Date N/A

System *UTM - Nad83, Zone15, Meters*
X: 414593 **Y:** 5091632

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
United States Geological Survey | USGS | KAHLHAMMER, M
License Business Name | Lic. Or Reg. No. | Name of Driller

First Bedrock
Last Strat Sand
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **224514** | Printed 6/28/2008 HE-01205-07

Minnesota Unique Well No.
427329

County Morrison
Quad Pierz
Quad ID 175A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/05/1989
Update Date 03/11/2005
Received Date

Well Name LUCKING, KURT

Township	Range	Dir	Section	Subsections	Elevation
40	30	W	17	B	1161 ft.

Elevation Method Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
78 ft.	76 ft.	10/25/1986

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 1 ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 72 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	12	4	72 ft. and 76 ft.

Geological Material	Color	Hardness	From	To
ROCKS	GRAY	HARD	0	30
CLAY	GRAY	MEDIUM	30	62
SAND	GRAY	MEDIUM	62	78

Static Water Level
20 ft. from Land surface Date Measured 10/25/1986

PUMPING LEVEL (below land surface)
27 ft. after 1 hrs. pumping 20 g.p.m.

Well Head Completion
Pitless adapter manufacturer MAASS Model J
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
601 - 7TH AVE. SW., LITTLE FALLS (?)

Located **Method** GPS SA On (averaged)

Unique Number Verification Address verification **Date** N/A

System *UTM - Nad83, Zone15, Meters* **X:** 413860 **Y:** 5090748

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement from 30 to 10 ft.

Nearest Known Source of Contamination
100 feet _direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 11/05/1986
Manufacturer's name AERMOTOR Model number SD12-50
__ HP 0.5 Volts 230
Length of drop Pipe 57 ft. Capacity 8 g.p.m
Type Submersible Material Plastic

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

STATE_02822512

2222.1555

First Bedrock **Last Strat**	**Aquifer** **Depth to Bedrock ft.**	**Well Contractor Certification** North Star Drilling 48038 BACKOWSKI, M. License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	**427329**	Printed 6/28/2008 HE-01205-07

Minnesota Unique Well No.
522900

County Morrison
Quad Pierz
Quad ID 175A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 07/31/1993
Update Date 01/06/2005
Received Date

Well Name GRITZMACHER, JOE

Township	Range	Dir	Section	Subsections	Elevation
40	30	W	8	DAD	1184 ft.

Elevation Method Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
75 ft.	75 ft.	06/08/1993

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 71 ft.	3 lbs./ft.	8 in. to 75 ft.

Well Address
RR 3
PIERZ MN 56364

Open Hole from ft. to ft.

Screen YES **Make** COOK **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
3	12	4	71 ft. and 75 ft.

Geological Material	Color	Hardness	From	To
CLAY	BROWN	HARD	0	10
GRAVEL	BROWN	HARD	10	35
SAND	BROWN	SOFT	35	48
CLAY	GRAY	HARD	48	68
SAND	BROWN	SOFT	68	75

Static Water Level
40 ft. from Land surface Date Measured 06/08/1993

PUMPING LEVEL (below land surface)
ft. after hrs. pumping 10 g.p.m.

Well Head Completion
Pitless adapter manufacturer MAASS Model 4J-1
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Bentonite from 10 to 40 ft. 5 bags

Located **Method** GPS SA On (averaged)
Unique Number Verification N/A **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 415287 **Y:** 5091358

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

STATE_02822514

2222.1557

First Bedrock **Last Strat**	**Aquifer** **Depth to Bedrock ft.**	**Well Contractor Certification** Northland Well Co. 49397 HENSE, R. License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	**522900**	Printed 6/28/2008 HE-01205-07

Minnesota Unique Well No.
524201

County Morrison
Quad Pierz
Quad ID 175A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 06/22/1994
Update Date 06/01/2001
Received Date

Well Name PREIMESBERGER,TOM&JACKIE

Township	Range	Dir	Section	Subsections	Elevation	Elevation Method
40	30	W	8	DDD	1184 ft.	Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
62 ft.	62 ft.	04/13/1994

Drilling Method Driven

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 58 ft.	11 lbs./ft.	4 in. to 62 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	20	4	53 ft. and 62 ft.

Well Address
626 PARK AV SE
PIERZ MN 56364

Geological Material	Color	Hardness	From	To
SAND & ROCKS	BROWN	HARD	0	28
ROCKS & CLAY	GRAY	HARD	28	58
SAND , GRAEL & WATER	BROWN	SOFT	58	62

Static Water Level
28 ft. from Land surface Date Measured 04/13/1994

PUMPING LEVEL (below land surface)
50 ft. after 1 hrs. pumping 15 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☑ No

Located **Method** GPS SA On (averaged)
Unique Number Verification Information from owner **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 415282 **Y:** 5091384

Nearest Known Source of Contamination
100 feet _direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Donabauer Well 73668 DONABAUER, G.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock **Aquifer**
Last Strat **Depth to Bedrock** ft.

County Well Index Online Report **524201** Printed 6/28/2008 HE-01205-07

STATE_02822516

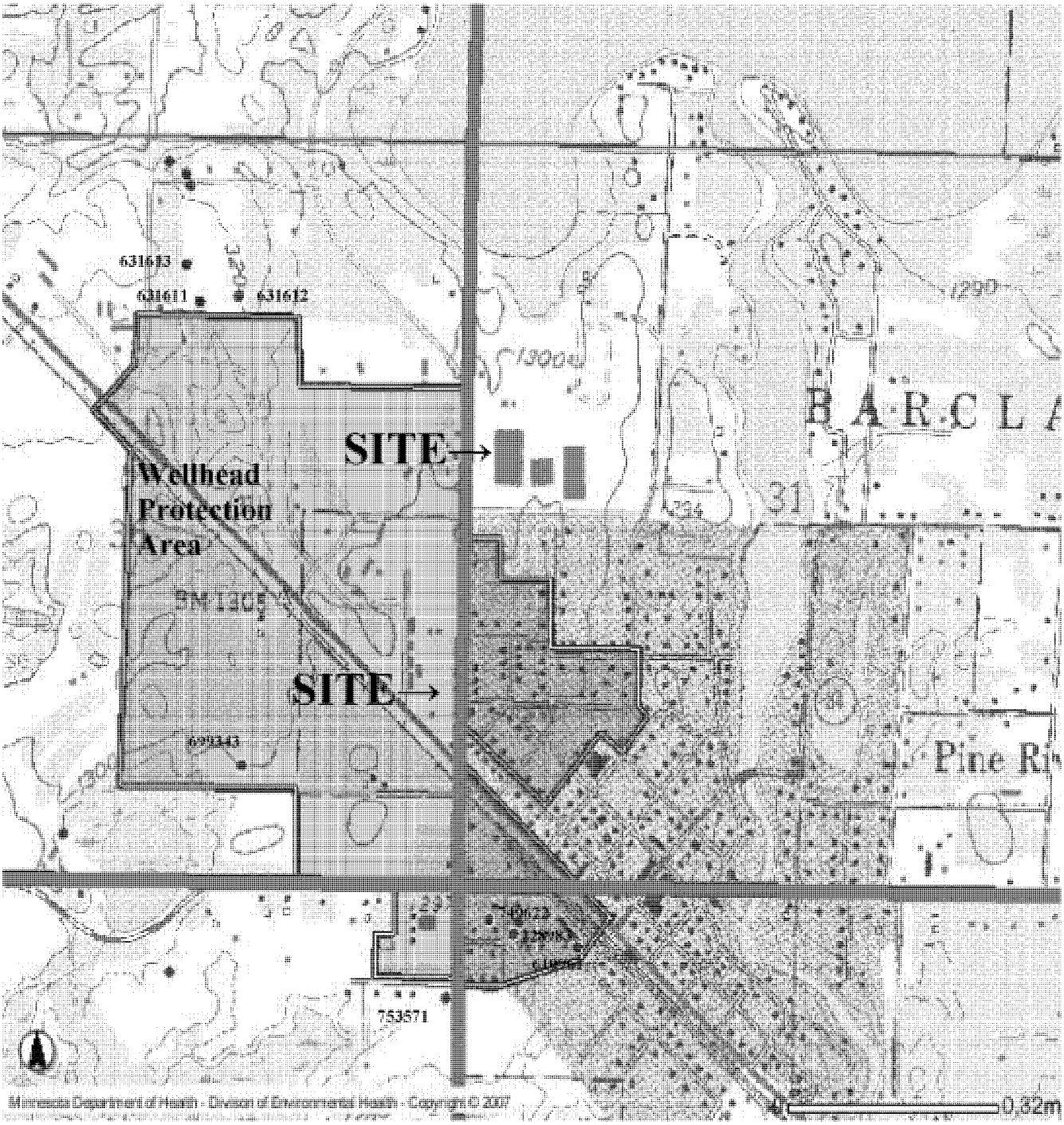
2222.1559

SITE SUMMARY

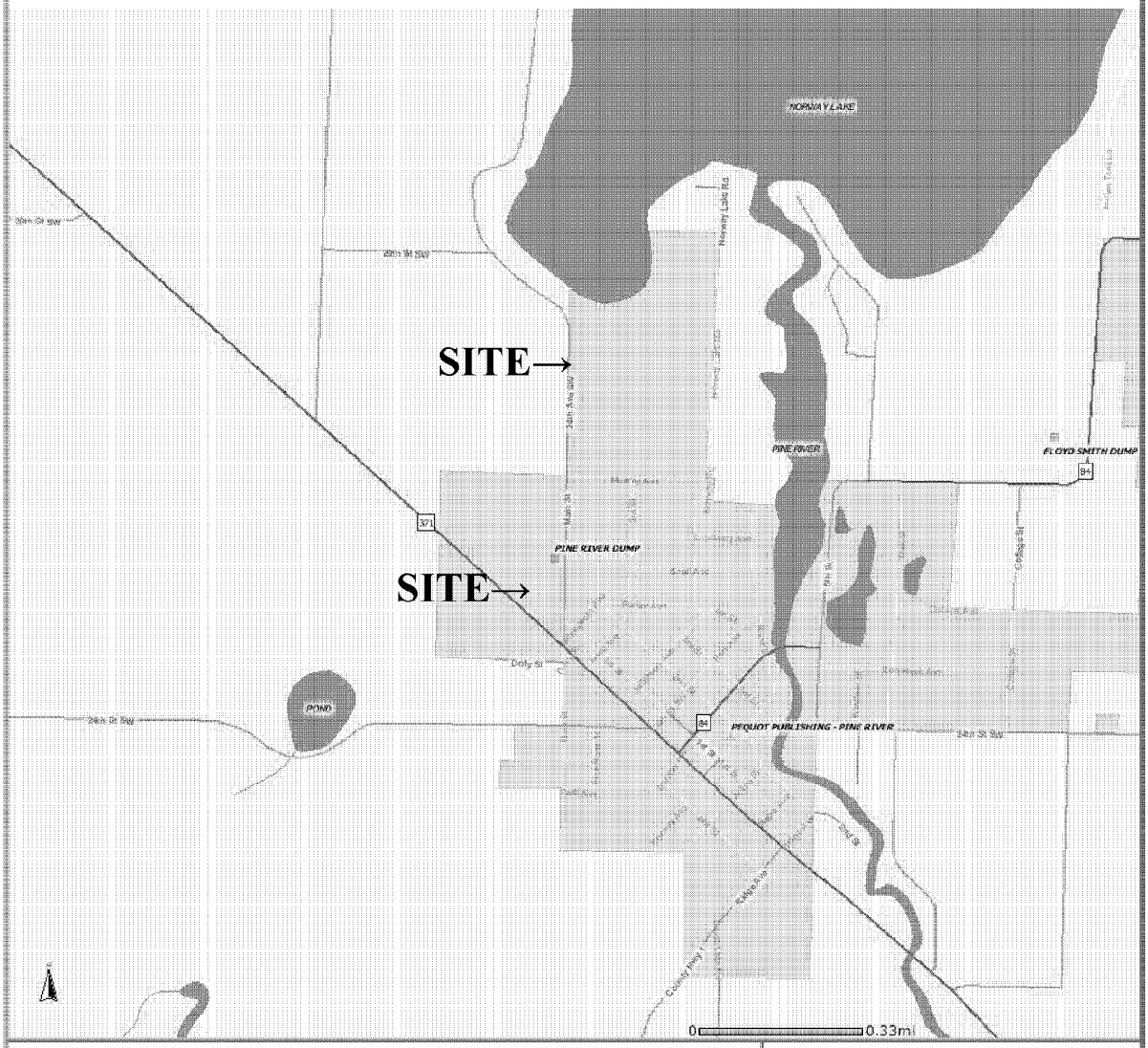
Site Name:	Pine River
Fire Department:	Pine River Fire Department PO Box 444 Pine River, MN 56474
Site Contact:	Keith Farnam, Fire Chief 218-587-2131 prfd56474@yahoo.com

Training Location:	Fair grounds and school grounds on 1st Street, Pine River
Type of foam used in training:	AR-AFFF: Ansulite (use in training not specified) Class A: Ansul Silv-ex
Foam training frequency:	Less than Bi-Annually
Foam use per training event:	5 to 10 gallons
Spent foam destination:	Ground
Annual foam use:	AR-AFFF: not specified Class A: 30 gallons
Nearest surface water:	Norway Lake outlet, less than 1/4 mile east of the school grounds; 1/4 to 1/2 mile east of the fair grounds.
Nearest wetland:	Less than 1/4 mile east of the school grounds; 1/4 to 1/2 mile east of the fair grounds.
Nearest water well:	1/4 to 1/2 mile west of both training sites
Nearest Wellhead Protection Area:	Fairgrounds located in Wellhead Protection Area; school grounds located adjacent to Wellhead Protection Area.
SITE RANKING:	**14**

PINE RIVER CWI Well Map



Pine River *What's In My Neighborhood* Map



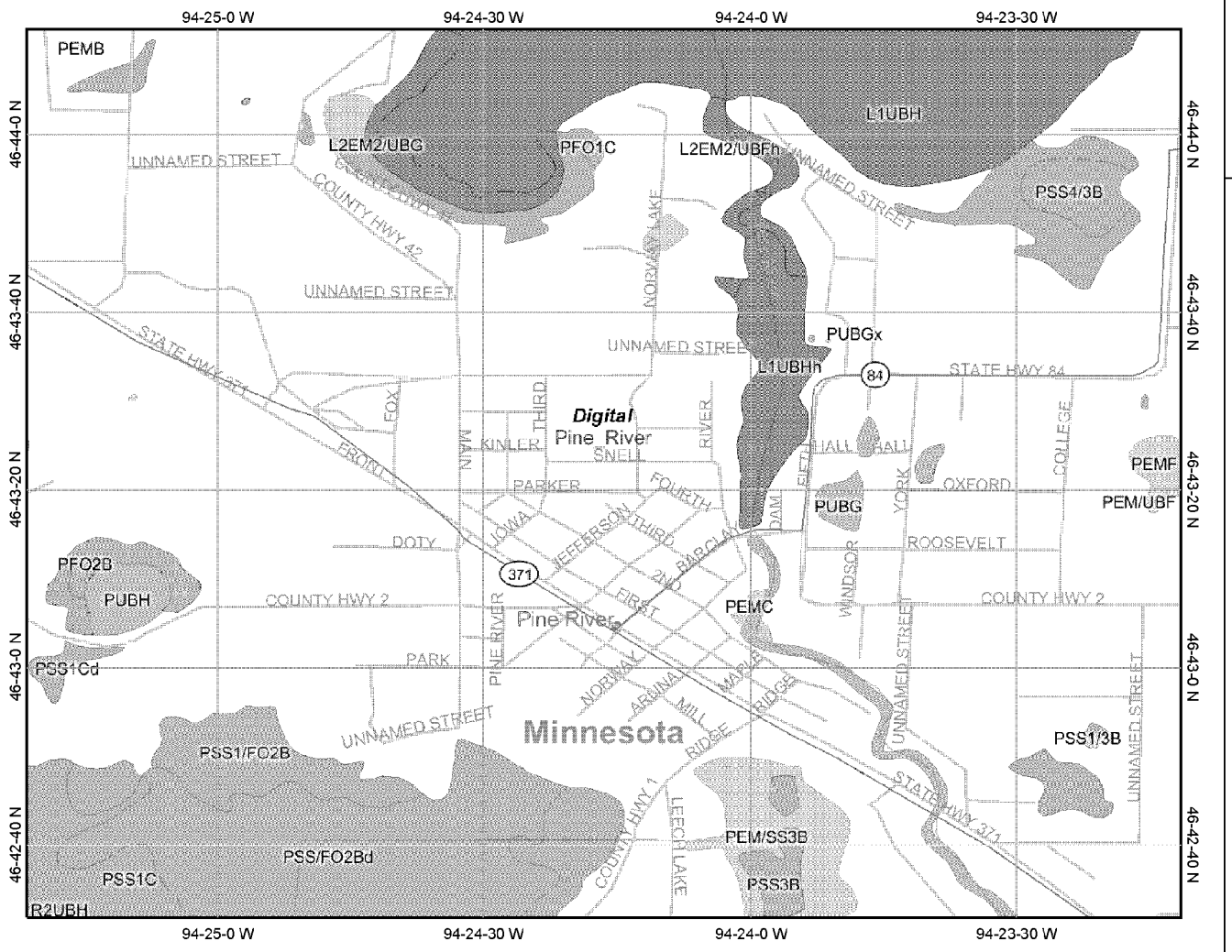
Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

Minnesota Pollution Control Agency

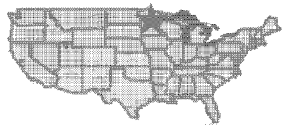
Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

Pine River Wetland Map



Map center: 46° 43' 22" N, 94° 24' 16" W



Legend

Ohio_wet_scan
- 0
- 1
- Out of range

Interstate

Major Roads
- Other Road
- Interstate
- State highway
- US highway

Roads

Cities

USGS Quad Index 24K

Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan

NHD Streams

Counties 100K

States 100K

South America

North America

Scale: 1:21,649

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

2222.1563

STATE_02822520

Minnesota Unique Well No.
228983

County Cass
Quad Pine River
Quad ID 232B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 07/22/1992
Update Date 05/16/2006
Received Date

Well Name PINE RIVER 1
Township Range Dir Section Subsections Elevation 1297 **ft.**
137 29 W 6 **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
311 **ft.**	32 **ft.**	09/00/1952

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
8 in. to 24 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON EVERDUR **Type**

Diameter	Slot/Gauze	Length	Set Between
	30	8	ft. and ft.

Static Water Level
17 ft. from Land surface Date Measured 09/00/1950

PUMPING LEVEL (below land surface)
9 ft. after 3 hrs. pumping 165 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
PINE RIVER MN

Geological Material	Color	Hardness	From	To
FINE SAND			0	15
SAND		MEDIUM	15	25
COARSE SAND			25	37
CLAY & SAND	BLUE		37	43
DRIFT W/FINE SAND & CLAY	GRAY		43	127
CLEAN SAND			127	130
DRIFT W/FINE SAND & CLAY	GRAY		130	170
FINE SAND, FAIRLY CLEAN			170	178
CLAY	BLUE		178	268
FINE MUDDY SAND			268	275
SAND & CLAY	GRAY		275	285
FINE SAND			285	307
"MARL"	WHITE		307	309
ROCK, UPPER PART SOFT	GREEN		309	311

REMARKS
WELL SEALED 06-18-1998 BY 34050
ORIGINAL USE MU - MUNICIPAL

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Department of Health **Method** Digitization (Screen) - Map (1:12,000)
Unique Number Verification N/A **Date** 09/19/2000
System *UTM - Nad83, Zone15, Meters* **X:** 392434 **Y:** 5174751

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Turbine Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
MUELLER, A.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Weathering Residuum
Last Strat Weathering Residuum
Aquifer
Depth to Bedrock 307 **ft.**

County Well Index Online Report

228983

Printed 6/28/2008
HE-01205-07

STATE_02822521

2222.1564

Minnesota Unique Well No.
610961

County Cass
Quad Pine River
Quad ID 232B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 03/16/2000
Update Date 01/18/2008
Received Date

Well Name MW-2
Township Range Dir Section Subsections Elevation 1295 **ft.**
137 29 W 6 BBA **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
25 **ft.**	25 **ft.**	03/17/1999

Drilling Method Hollow Stem Auger

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below** **ft.**

Casing Diameter	Weight	Hole Diameter
2 in. to 15 ft.	lbs./ft.	7.25 in. to 25 ft.

Open Hole from ft. to ft.

Screen YES **Make** HORIZON **Type** plastic

Diameter	Slot/Gauze	Length	Set Between
2	10	10	15 ft. and 25 ft.

Well Address
MILL ST
PINE RIVER MN 56474

Geological Material	Color	Hardness	From	To
SAND W/ TR GRAVEL	YEL/BRN	SOFT	0	25

Static Water Level
20.6 ft. from Land surface Date Measured 04/26/1999

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☑ Casing Protection Y ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
WELL SEALED 12-29-1999 BY 75330
ORIGINAL USE MW - MONITOR WELL

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement from 0 to 4 ft.
Grout Material: Bentonite from 4 to 11 ft.

Located Minnesota Department of Health **Method** GPS Differentially Corrected
Unique Number Verification N/A **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 392592 **Y:** 5174723

Nearest Known Source of Contamination
500 feet North East direction Volatile organic compounds type
Well disinfected upon completion? ☐ Yes ☑ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

STATE_02822522

2222.1565

First Bedrock **Last Strat**	**Aquifer** **Depth to Bedrock ft.**	**Well Contractor Certification** Valnes Well Co. 75330 EVINK, K. License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	**610961**	Printed 6/28/2008 HE-01205-07

Minnesota Unique Well No.
631611

County Cass
Quad Pine River
Quad ID 232B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 11/11/1999
Update Date 03/11/2005
Received Date

Well Name SHAMP, ARCHIE
Township Range Dir Section Subsections Elevation 1316 **ft.**
138 30 W 36 **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
53 **ft.**	53 **ft.**	07/23/1999

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 45 ft.	3 lbs./ft.	8 in. to 53 ft.

Well Address
BOX 12
PINE RIVER MN 56474

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
3	12	8	45 ft. and 53 ft.

Geological Material	Color	Hardness	From	To
SAND	BROWN	SOFT	0	15
SANDY CLAY	BROWN	MEDIUM	15	26
SANDY CLAY	GREEN	MEDIUM	26	45
SAND	GREEN	MEDIUM	45	53

Static Water Level
24 ft. from Land surface Date Measured 07/23/1999

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer MAAS Model 4J-1
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Bentonite from 0 to 35 ft. 4 bags

Located Minnesota Department of Health **Method** GPS SA Off (averaged)
Unique Number Verification N/A **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 391662 **Y:** 5176118

Nearest Known Source of Contamination
50 feet W direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 07/23/1999
Manufacturer's name STA RITE Model number __ HP 0.5 Volts 230
Length of drop Pipe 40 ft. Capacity 10 g.p.m
Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

STATE_02822524

2222.1567

First Bedrock	**Aquifer**	**Well Contractor Certification**	
Last Strat	**Depth to Bedrock ft.**	Northland Drilling, Inc. 49697 KERSTING, ROB	
		License Business Name Lic. Or Reg. No. Name of Driller	
County Well Index Online Report		**631611**	Printed 6/28/2008 HE-01205-07

Minnesota Unique Well No.
631612

County Cass
Quad Pine River
Quad ID 232B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 11/11/1999
Update Date 03/11/2005
Received Date

Well Name SHAMP, ARCHIE
Township Range Dir Section Subsections Elevation 1320 **ft.**
138 30 W 36 **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
47 **ft.**	47 **ft.**	07/23/1999

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 42 ft.	3 lbs./ft.	8 in. to 47 ft.

Well Address
BOX 12
PINE RIVER MN 56474

Open Hole from ft. to ft.

Screen YES **Make** WISCO **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	15	5	42 ft. and 47 ft.

Geological Material	Color	Hardness	From	To
SAND	BROWN	SOFT	0	14
SANDY CLAY	BROWN	MEDIUM	14	29
SANDY CLAY	GREEN	MEDIUM	29	41
SAND	GREEN	MEDIUM	41	47

Static Water Level
30 ft. from Land surface Date Measured 07/23/1999

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer MAAS Model 4J-1
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Bentonite from 0 to 30 ft. 4 bags

Located Minnesota Department of Health **Method** GPS SA Off (averaged)
Unique Number Verification N/A **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 391758 **Y:** 5176131

Nearest Known Source of Contamination
52 feet S direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 07/23/1999
Manufacturer's name STA RITE Model number __ HP 0.5 Volts 230
Length of drop Pipe 35 ft. Capacity 10 g.p.m
Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

STATE_02822526

First Bedrock **Aquifer** **Last Strat** **Depth to Bedrock ft.**	**Well Contractor Certification** Northland Drilling, Inc. 49697 KERSTING, ROB License Business Name Lic. Or Reg. No. Name of Driller	
County Well Index Online Report	**631612**	Printed 6/28/2008 HE-01205-07

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Minnesota Unique Well No.
631613

County Cass
Quad Pine River
Quad ID 232B

Entry Date 11/11/1999
Update Date 03/11/2005
Received Date

Well Name SHAMP, ARCHIE
Township Range Dir Section Subsections Elevation 1317 **ft.**
138 30 W 36 **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
52 ft.	52 ft.	07/23/1999

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 44 ft.	3 lbs./ft.	8 in. to 52 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
3	12	8	44 ft. and 52 ft.

Well Address
BOX 12
PINE RIVER MN 56474

Geological Material	Color	Hardness	From	To
SAND	BROWN	SOFT	0	6
CLAY	BROWN	MEDIUM	6	23
SANDY CLAY	BROWN	MEDIUM	23	31
SANDY CLAY	GREEN	MEDIUM	31	44
SAND	GREEN	MEDIUM	44	52

Static Water Level
26 ft. from Land surface Date Measured 07/23/1999

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer MAAS Model 4J-1
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Bentonite from 0 to 35 ft. 5 bags

Located Minnesota Department of Health **Method** GPS SA Off (averaged)
Unique Number Verification N/A **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 391629 **Y:** 5176199

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 07/23/1999
Manufacturer's name STA RITE Model number __ HP 0.5 Volts 230
Length of drop Pipe 35 ft. Capacity 10 g.p.m
Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

STATE_02822528

2222.1571

First Bedrock	**Aquifer**	**Well Contractor Certification**	
Last Strat	**Depth to Bedrock ft.**	Northland Drilling, Inc. 49697 KERSTING, ROB	
		License Business Name Lic. Or Reg. No. Name of Driller	
County Well Index Online Report		**631613**	Printed 6/28/2008 HE-01205-07

Minnesota Unique Well No.
699343

County Cass
Quad Pine River
Quad ID 232B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date
Update Date 05/25/2006
Received Date 09/24/2003

Well Name HUNT UTILITIES GROUP

Township	Range	Dir	Section	Subsections	Elevation
138	30	W	36	DCAC	1296 ft.

Elevation Method Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
57 ft.	57 ft.	09/12/2003

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below** ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 53 ft.	1 lbs./ft.	8.25 in. to 30 ft.
		6.25 in. to 57 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	15	4	53 ft. and 57 ft.

Well Address
RR
PINE RIVER MN 56474

Geological Material	Color	Hardness	From	To
TOPSOIL	BROWN	SOFT	0	2
SAND	BROWN	SOFT	2	15
SAND	GRAY	SOFT	15	37
SANDY CLAY	GRAY	HARD	37	50
SAND	GRAY	SOFT	50	57

Static Water Level
19 ft. from Land surface Date Measured 09/11/2003

PUMPING LEVEL (below land surface)
52 ft. after 1 hrs. pumping 20 g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model SNAPPY
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: High solids bentonite from 0 to 30 ft. 3 bags

Located Minnesota Department of Health **Method** GPS SA Off (averaged)
Unique Number Verification N/A **Date** 04/09/2004
System *UTM - Nad83, Zone15, Meters* **X:** 391764 **Y:** 5175116

Nearest Known Source of Contamination
110 feet North West direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 09/12/2003
Manufacturer's name STA-RITE Model number 10P4C02J
HP 0.5 Volts 230
Length of drop Pipe 40 ft. Capacity 10 g.p.m
Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

First Bedrock **Aquifer** **Last Strat** **Depth to Bedrock ft.**	**Well Contractor Certification** Elsner Well Drilling, Inc. 29383 SMITH, B. License Business Name Lic. Or Reg. No. Name of Driller	
County Well Index Online Report	**699343**	Printed 6/28/2008 HE-01205-07

Minnesota Unique Well No.
749622

County Cass
Quad Pine River
Quad ID 232B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 06/21/2007
Update Date 12/17/2007
Received Date 05/03/2007

Well Name CITY OF PINE RIVER
Township Range Dir Section Subsections Elevation 1293 **ft.**
137 29 W 6 BBBBDB **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
308 **ft.**	308 **ft.**	04/10/2007

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Test well

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?**
☐ Yes ☑ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 296 ft.	10.79 lbs/ft.	8.25 in. to 50 ft.
		6.25 in. to 308 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	15	12	296 ft. and 308 ft.

Well Address
160 PINE ST N
PINE RIVER MN 56474

Geological Material	Color	Hardness	From	To
TOPSOIL	BROWN	SOFT	0	1
SAND	BROWN	SOFT	1	34
SANDY CLAY	GRY/RED	HARD	34	96
SAND	GRY/RED	SOFT	96	104
SANDY CLAY	GRY/RED	HARD	104	134
SAND	GRY/RED	SOFT	134	146
SANDY CLAY	GRY/RED	HARD	146	153
SAND	GRY/RED	SOFT	153	163
CLAY	GRAY	HARD	163	211
SAND	GRAY	SOFT	211	225
CLAY	GRAY	HARD	225	249
SAND	GRAY	SOFT	249	308

Static Water Level
10 ft. from Land surface Date Measured 04/10/2007

PUMPING LEVEL (below land surface)
295 ft. after hrs. pumping 200 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Bentonite from to 50 ft. 6 bags

Located Minnesota Department of Health **Method** GPS SA Off (averaged)
Unique Number Verification N/A **Date** 06/21/2007
System *UTM - Nad83, Zone15, Meters* **X:** 392374 **Y:** 5174783

Nearest Known Source of Contamination
0 feet direction type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 04/11/2007
Manufacturer's name FRANKLIN 5 HP Model number TESTPUMP
HP Volts
Length of drop Pipe ft. Capacity g.p.m Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐
Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
Elsner Well Drilling, Inc. 1374 ELSNER, J.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat
Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **749622** | Printed 6/28/2008 IIE-01205-07

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Minnesota Unique Well No. **753571**

County Cass
Quad Pine River
Quad ID 232B

Entry Date 06/21/2007
Update Date 03/05/2008
Received Date 07/16/2007

Well Name CITY OF PINE RIVER
Township Range Dir Section Subsections Elevation 1293 **ft.**
137 30 W 1 AADAAC **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
38 **ft.**	38 **ft.**	06/05/2007

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Test well

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
6 in. to 28 ft.	1 lbs./ft.	9.25 in. to 38 ft.

Open Hole from ft. to ft.

Screen YES **Make** BRADY **Type** plastic

Diameter	Slot/Gauze	Length	Set Between
6	20	10	28 ft. and 38 ft.

Well Address
RR
PINE RIVER MN 56474

Geological Material	Color	Hardness	From	To
SAND	BROWN	SOFT	0	38

Static Water Level
15 ft. from Land surface Date Measured 06/05/2007

PUMPING LEVEL (below land surface)
27 ft. after 24 hrs. pumping 150 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Bentonite from to 28 ft. 5 bags

Located Minnesota Department of Health **Method** GPS SA Off (averaged)
Unique Number Verification N/A **Date** 06/21/2007
System *UTM - Nad83, Zone15, Meters* **X:** 392269 **Y:** 5174614

Nearest Known Source of Contamination
0 feet direction type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 0
Manufacturer's name Model number HP Volts
Length of drop Pipe ft. Capacity g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

STATE_02822533

2222.1576

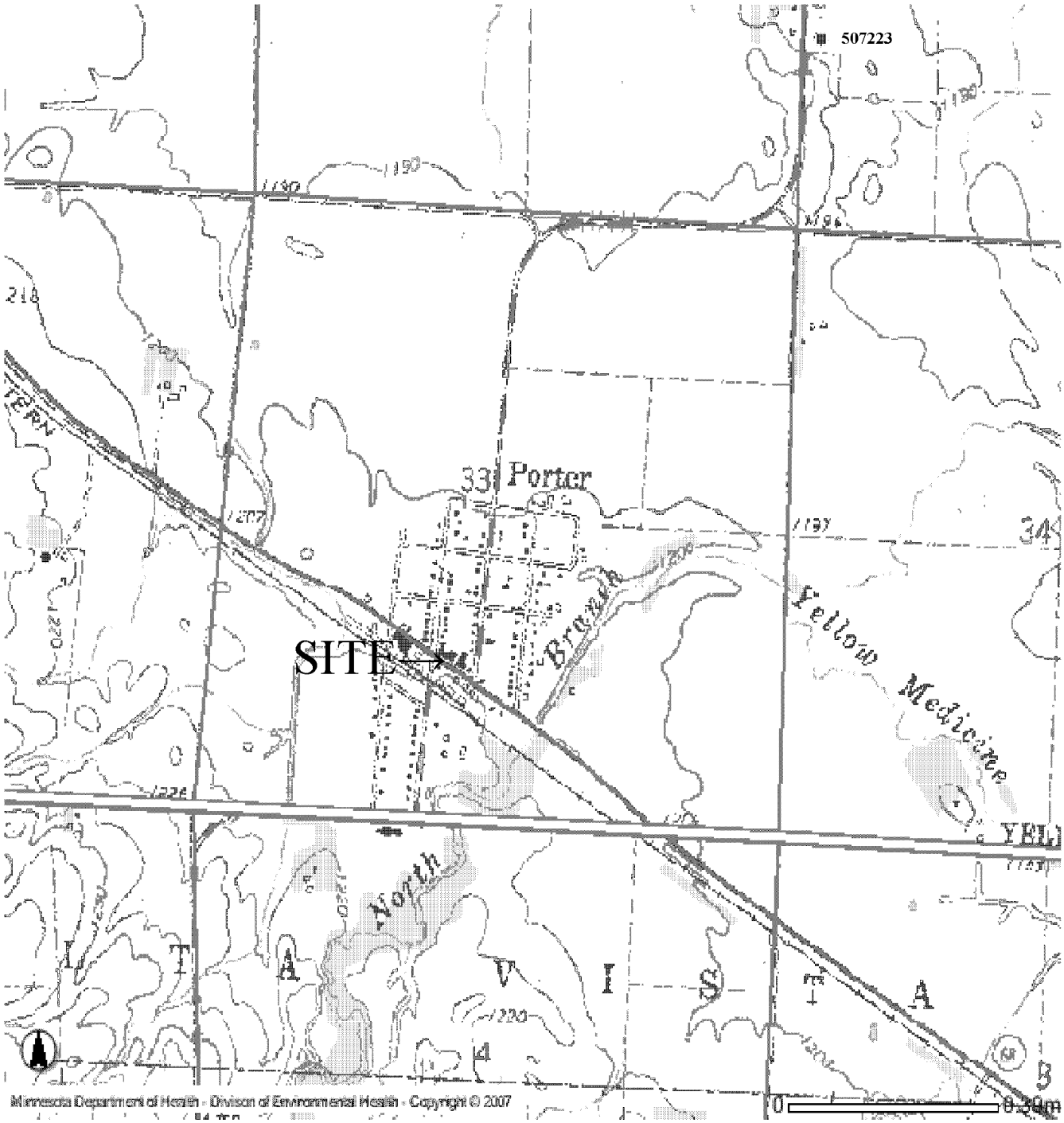
First Bedrock **Last Strat**	**Aquifer** **Depth to Bedrock ft.**	**Well Contractor Certification** Elsner Well Drilling, Inc. 1374 ELSNER, J. License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	**753571**	Printed 6/28/2008 HE-01205-07

SITE SUMMARY

Site Name:	Porter
Fire Department:	Porter Fire Department 505 Maple Porter, MN 56280
Site Contact:	Patrick Vlaminck, Fire Chief 507-296-4475

Training Location:	Fire hall, 301 Lone Tree Street, Porter
Type of foam used in training:	AR-AFFF: Chemguard Class A: Ansul Silv-ex
Foam training frequency:	Semi-Annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Storm sewer
Annual foam use:	AR-AFFF: 5 gallons Class A: 5 gallons
Nearest surface water:	North Branch of the Yellow Medicine River, less than 1/4 mile east
Nearest wetland:	Approximately 1/4 mile south
Nearest water well:	Approximately 1 mile northeast
Nearest Wellhead Protection Area:	More than 1 mile
SITE RANKING:	**9**

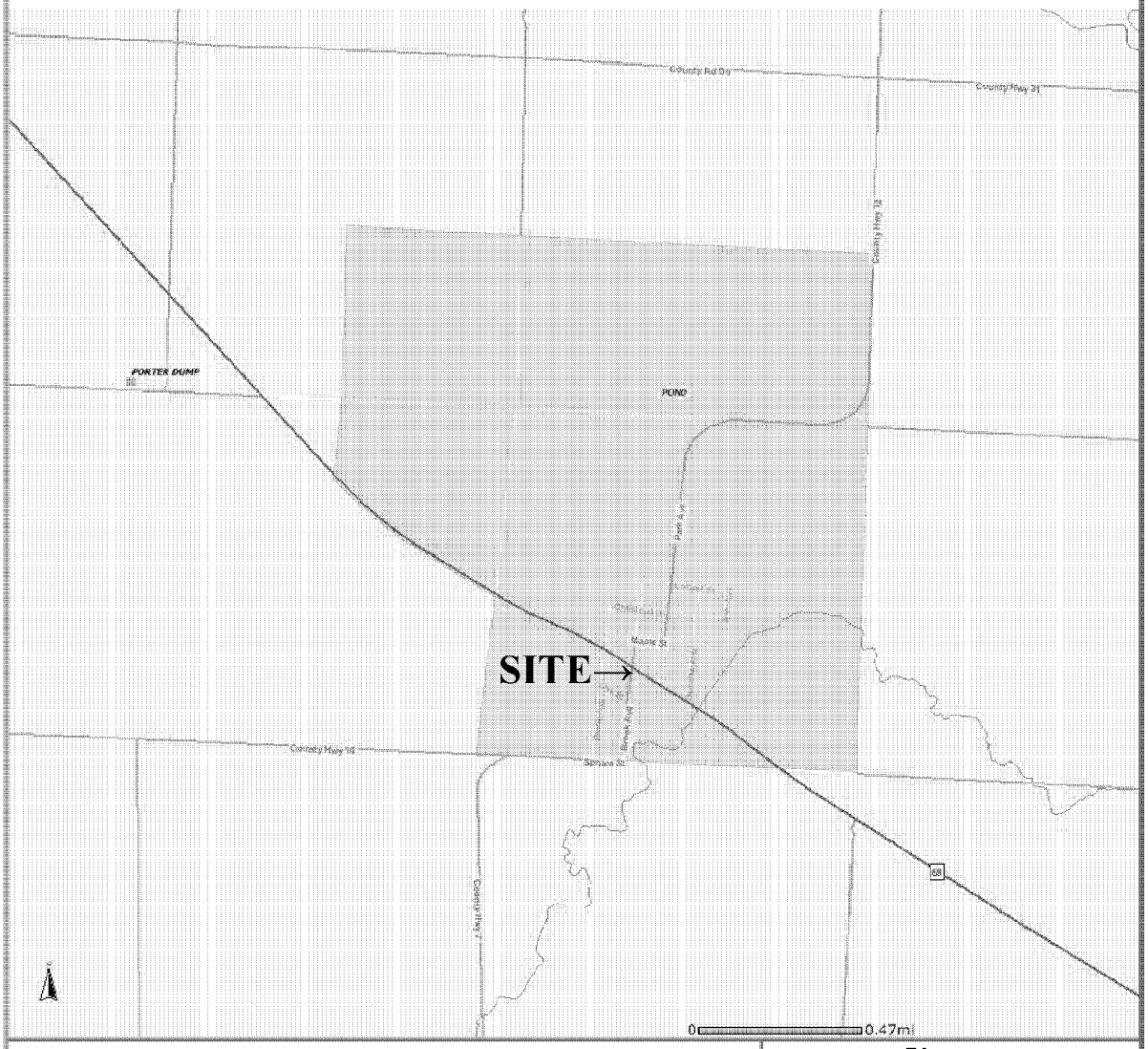
PORTER CWI Well Map



STATE_02822536

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Porter *What's In My Neighborhood* Map



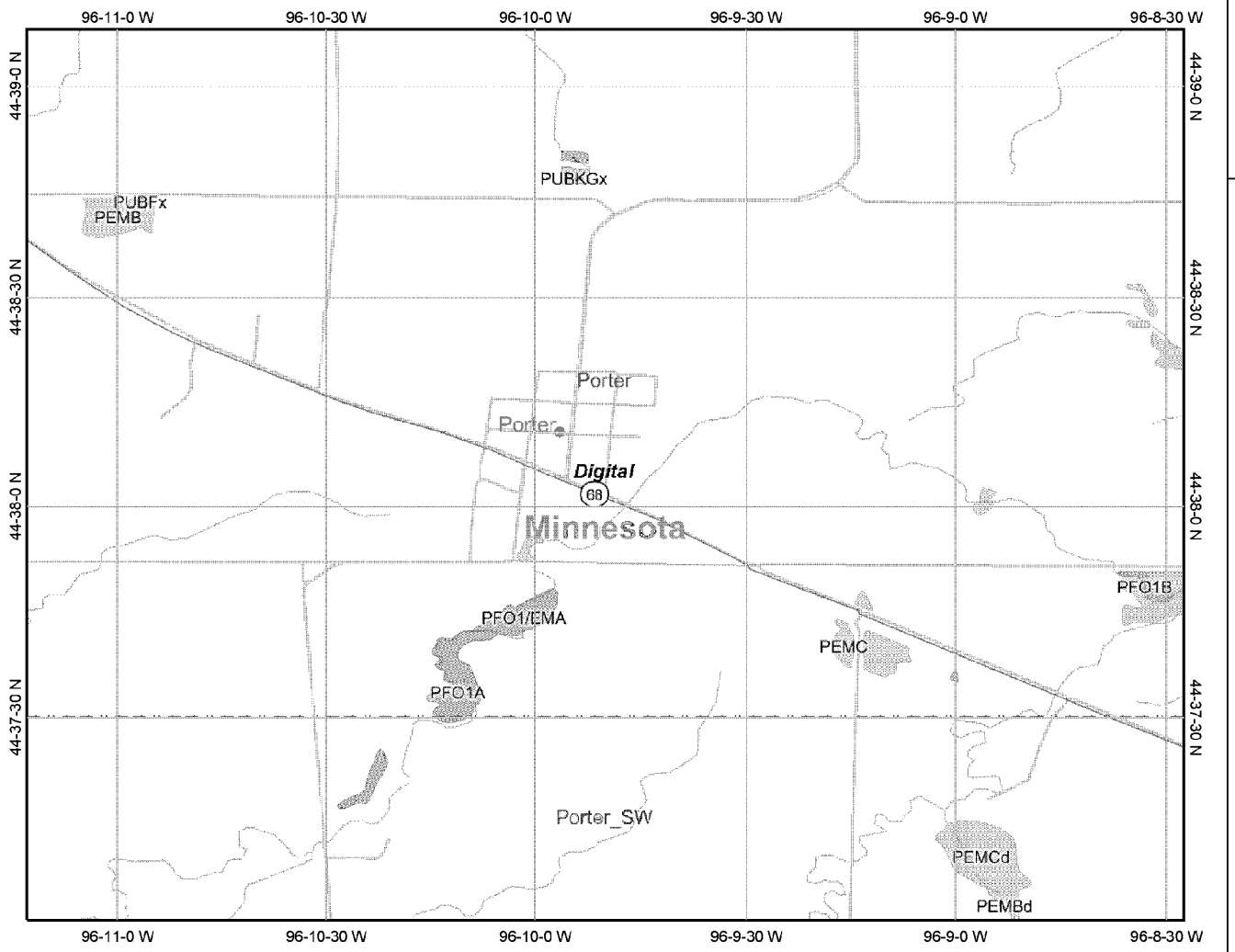
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Minnesota Pollution Control Agency

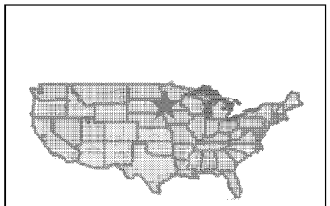
Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

Porter Wetland Map



Map center: 44° 38' 5" N, 96° 9' 50" W



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:27,524

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2222.1581

STATE_02822538

Minnesota Unique Well No.
507223

County Yellow Medicine
Quad Porter
Quad ID 100B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 12/07/1990
Update Date 01/21/1997
Received Date

Well Name MILLER, ROBERT

Township	Range	Dir	Section	Subsections	Elevation	Elevation Method
114	44	W	27	CBCBDC	1192 ft.	7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
115 ft.	115 ft.	03/21/1990

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 1 **ft.**

Casing Diameter	Weight	Hole Diameter
5 in. to 105 ft.	lbs./ft.	9 in. to 20 ft.
		8 in. to 115 ft.

Open Hole from ft. to ft.

Screen YES **Make** EVERFLOW **Type** plastic

Diameter	Slot/Gauze	Length	Set Between
5	15	10	105 ft. and 115 ft.

Static Water Level
30 ft. from Land surface Date Measured 03/21/1990

PUMPING LEVEL (below land surface)
60 ft. after hrs. pumping 20 g.p.m.

Well Head Completion
Pitless adapter manufacturer MAASS Model 5J1-76
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
RR 1 BOX 93
PORTER MN 56280

Geological Material	Color	Hardness	From	To
TOP SOIL	BLACK	MEDIUM	0	2
CLAY	YELLOW	MEDIUM	2	6
SAND FINE	RED		6	9
CLAY	YELLOW	MEDIUM	9	21
CLAY	BLUE	MEDIUM	21	27
GRAVEL	GRAY	MEDIUM	27	37
CLAY	BLUE	MEDIUM	37	85
CLAY	BLUE	HARD	85	101
SAND FINE	GRAY		101	115

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement	from 10 to 40 ft.	0
Grout Material: Cuttings	from 40 to 100 ft.	0

Located Minnesota Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Information from neighbor **Date** N/A

System *UTM - Nad83, Zone15, Meters* **X:** 249964 **Y:** 4948902

Nearest Known Source of Contamination
25 feet North East direction Other type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 03/21/1990
Manufacturer's name GOULD Model number 10EJ05412
HP 0.5 Volts 220
Length of drop Pipe 60 ft. Capacity 10 g.p.m
Type Submersible Material Plastic

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Jacobs & Grant Well 12073 GRANT, A.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Cretaceous,Undiff.
Last Strat Cretaceous,Undiff.
Aquifer Cretaceous,Undiff.
Depth to Bedrock 37 **ft.**

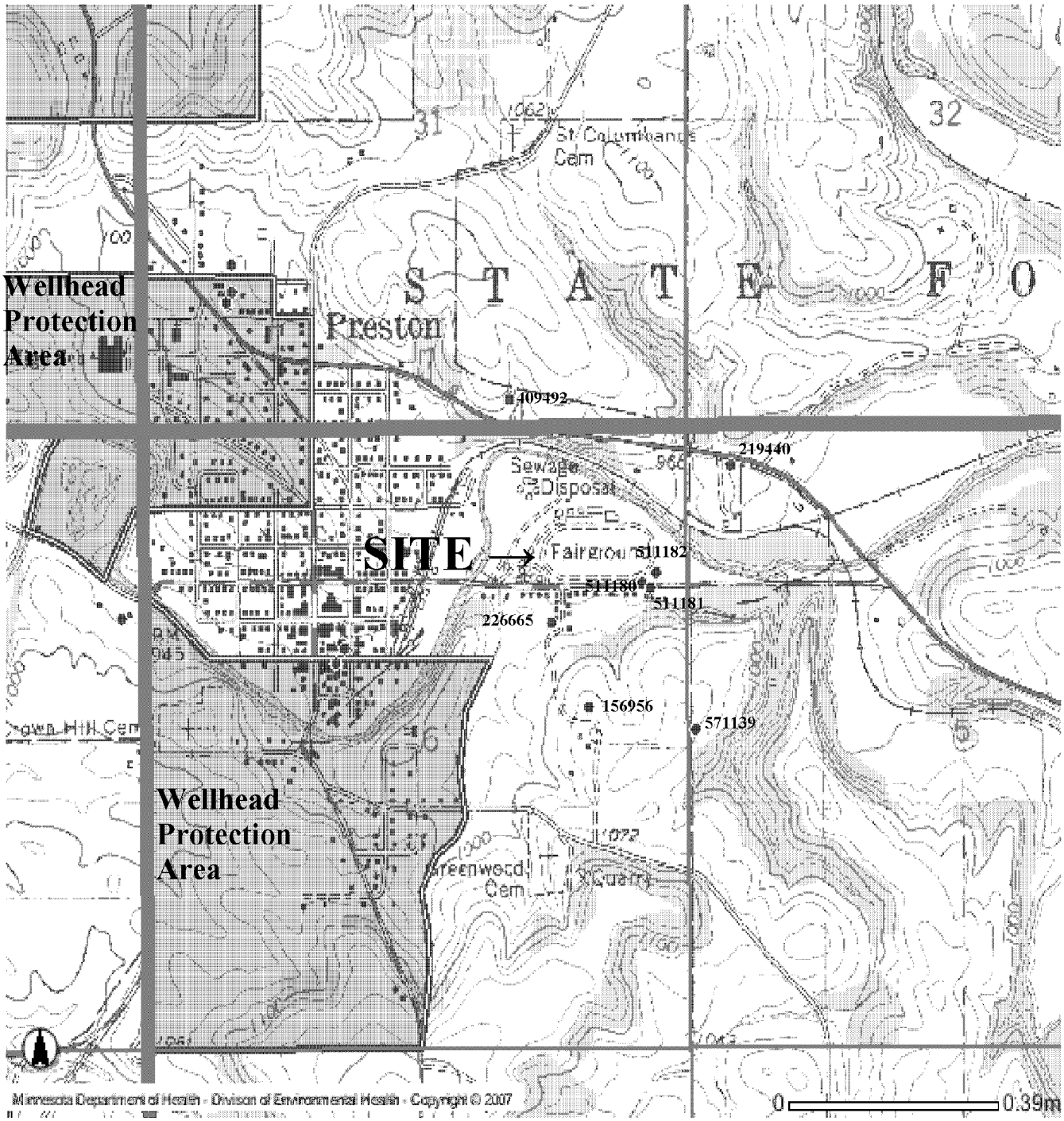
County Well Index Online Report **507223** Printed 6/28/2008 HE-01205-07

SITE SUMMARY

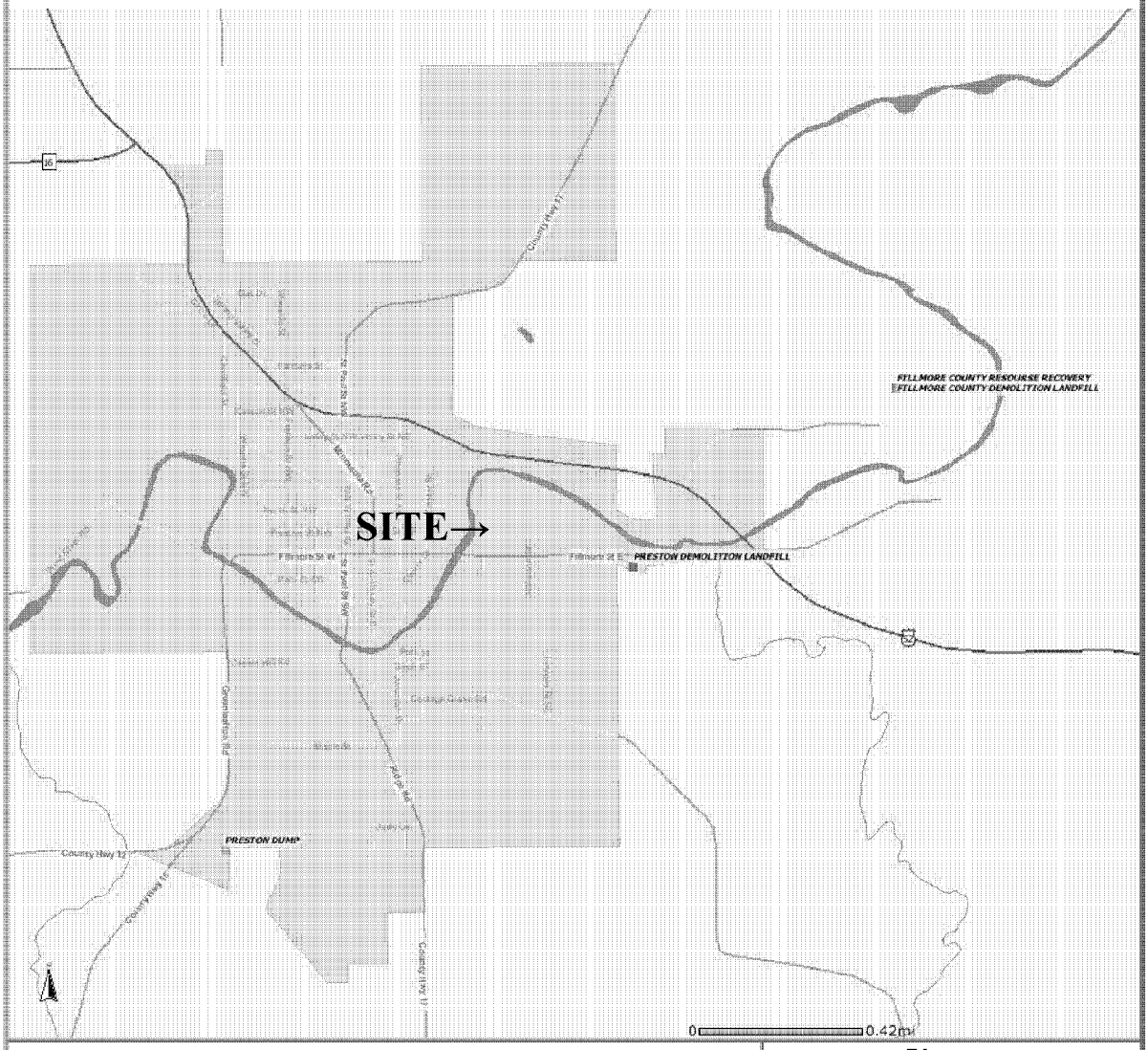
Site Name:	Preston
Fire Department:	Preston Fire Department PO Box 216 Preston, MN 55965
Site Contact:	Jerry Olson, Fire Chief 507-765-3801 (fire hall) 507-765-3327 (home) jolson002@centurytel.net

Training Location:	Fillmore County Fairgrounds, Fillmore Street & County Highway 12, Preston
Type of foam used in training:	AR-AFFF: 3M Training Foam: Clarey's First Strike
Foam training frequency:	Two times in last 15 years
Foam use per training event:	5 gallons
Spent foam destination:	Ground
Annual foam use:	AR-AFFF: 5 gallons Class A: 5 gallons Training Foam: 5 gallons
Nearest surface water:	South Branch of the Root River located adjacent north of the fairgrounds
Nearest wetland:	Adjacent east of fairgrounds
Karst Area:	Training site is located in an active karst area
Nearest water well:	At fairgrounds
Nearest Wellhead Protection Area:	Less than 1/4 mile southwest
SITE RANKING:	**28**

PRESTON CWI Well Map



Preston *What's In My Neighborhood* Map



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Minnesota Pollution Control Agency

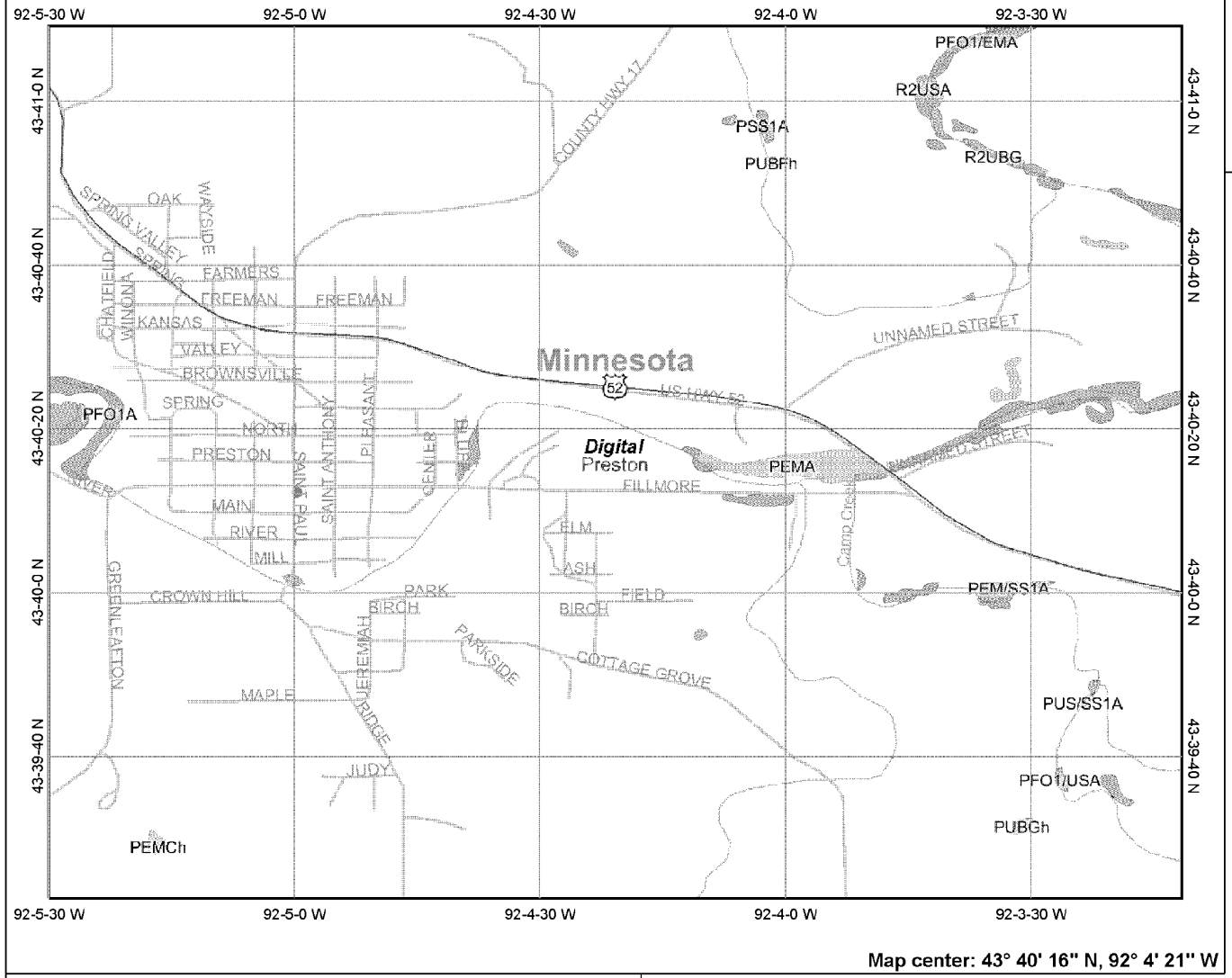
Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

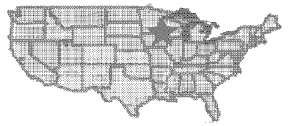
STATE_02822542

2222.1585

Preston Wetland Map



Map center: 43° 40' 16" N, 92° 4' 21" W



Legend

Ohio_wet_scan
- 0
- 1
- Out of range

Interstate

Major Roads
- Other Road
- Interstate
- State highway
- US highway

Roads

Cities

USGS Quad Index 24K

Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan

NHD Streams

Counties 100K

States 100K
- South America
- North America

Scale: 1:23,038

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2222.1586

STATE_02822543

Minnesota Unique Well No.
156956

County Fillmore
Quad Preston
Quad ID 5A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 12/17/1991
Update Date 05/19/1993
Received Date

Well Name SACKETT, CLIFFORD
Township Range Dir Section Subsections Elevation 1050 **ft.**
102 10 W 6 ADCCAA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
410 **ft.**	410 **ft.**	06/15/1979

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 1 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 345 ft.	lbs./ft.	0 in. to 410 ft.

Open Hole from 345 ft. to 410 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
PRESTON MN

Geological Material	Color	Hardness	From	To
DRIFT	BROWN	SOFT	0	11
DOLOMITE	TAN	HARD	11	326
SANDSTONE	RED	SOFT	326	410

Static Water Level
103 ft. from Land surface Date Measured 06/15/1979

PUMPING LEVEL (below land surface)
110 ft. after hrs. pumping 20 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement from 0 to ft. 7 yrds.

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number
Verification Information from neighbor
Date N/A

System *UTM - Nad83, Zone15, Meters*
X: 574717 **Y:** 4835347

Nearest Known Source of Contamination
75 feet direction Septic tank/drain field type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number HP 0 Volts
Length of drop Pipe ft. Capacity g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Rowland Well Co. | 23124 | ROWLAND, N.
License Business Name | Lic. Or Reg. No. | Name of Driller

First Bedrock Prairie Du Chien Group
Last Strat Jordan
Aqnifer Jordan
Depth to Bedrock 11 **ft.**

County Well Index Online Report | **156956** | Printed 6/28/2008 HE-01205-07

Minnesota Unique Well No.
219440

County Fillmore
Quad Preston
Quad ID 5A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 12/17/1991
Update Date 05/19/1993
Received Date

Well Name GEO. A. HORMEL CO.

Township	Range	Dir	Section	Subsections	Elevation
102	10	W	5	BBBACC	955 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
235 ft.	235 ft.	09/09/1971

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Industrial

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/ Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
6 in. to 43 ft.	lbs./ft.	0 in. to 235 ft.

Open Hole from 43 ft. to 235 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
36 ft. from Land surface Date Measured 09/09/1971

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
PRESTON MN

Geological Material	Color	Hardness	From	To
DRIFT CLAY			0	41
ONEOTA			41	227
JORDAN			227	235

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Other, note in remarks
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 575135 **Y:** 4835972

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed
Manufacturer's name RED JACKET Model number 9BC___ HP 0.5 Volts
Length of drop Pipe _ft. Capacity 30 g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
United States Geological Survey USGS
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Prairie Du Chien Group
Last Strat Jordan
Aquifer Prairie Du Chien-Jordan
Depth to Bedrock 41 **ft.**

County Well Index Online Report | **219440** | Printed 6/28/2008 HE-01205-07

STATE_02822545

2222.1588

Minnesota Unique Well No.
226665

County Fillmore
Quad Preston
Quad ID 5A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 12/17/1991
Update Date 05/19/1993
Received Date

Well Name LAUNGUNN, A.H.

Township Range Dir Section Subsections Elevation 955 **ft.**

102	10	W	6	ADBCBB	**Elevation Method**	7.5 minute topographic map (-/- 5 feet)

Well Depth	**Depth Completed**	**Date Well Completed**
41 **ft.**	41 **ft.**	10/23/1963

Drilling Method --

Drilling Fluid
--

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/ Below** 0 **ft.**

Casing Diameter	**Weight**	**Hole Diameter**
6 in. to 21 ft.	lbs./ft.	0 in. to 41 ft.

Open Hole from 21 ft. to 41 ft.

Screen NO **Make** **Type**

Diameter	**Slot/Gauze**	**Length**	**Set Between**

Well Address

PRESTON MN

Geological Material	**Color**	**Hardness**	**From**	**To**
CLAY & DIRT			0	15
SAND & GRAVEL & CLAY			15	19
HARD ROCK	WHITE		19	41

Static Water Level
21 ft. from Land surface Date Measured 10/23/1963

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number
Verification Information from neighbor
Date N/A

System *UTM - Nad83, Zone15, Meters*
X: 574608 **Y:** 4835564

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

First Bedrock Prairie Du Chien Group
Last Strat Prairie Du Chien Group
Aquifer Prairie Du Chien Group
Depth to Bedrock 19 **ft.**

Well Contractor Certification
Nelson Bros. Well Co NELSO
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report

226665

Printed 6/28/2008
HE-01205-07

Minnesota Unique Well No.
409492

County Fillmore
Quad Preston
Quad ID 5A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 01/10/1992
Update Date 07/21/1994
Received Date

Well Name GOSI, JOE
Township Range Dir Section Subsections Elevation 1030 **ft.**
103 10 W 31 DCDCAA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
360 **ft.**	360 **ft.**	08/27/1985

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Domestic

Casing Type **Joint** Welded **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
8 in. to 25 ft.	lbs./ft.	
4 in. to 327 ft.	lbs./ft.	

Open Hole from 327 ft. to 360 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
80 ft. from Land surface Date Measured 09/04/1985

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer WHITEWATER Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
52 HY S
PRESTON MN 55965

Geological Material	Color	Hardness	From	To
CLAY			0	20
LIMESTONE	BROWN	MEDIUM	20	55
SANDSTONE	BROWN	MEDIUM	55	80
LIMESTONE	BROWN	MEDIUM	80	280
SANDSTONE	GRAY	MEDIUM	280	360

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement from 0 to 327 ft. 5 yrds.

Located Minnesota Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Information from neighbor **Date** N/A

System *UTM - Nad83, Zone15, Meters* **X:** 574483 **Y:** 4836142

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 09/11/1985
Manufacturer's name WEBTROL Model number 352S2012B
__ HP 2 Volts 230
Length of drop Pipe 168 ft. Capacity 35 g.p.m
Type Submersible Material Galvanized

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Thein Well Co. 55079 VAN HOUTEN, D
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Shakopee/Willow River Mbr **Aquifer** Jordan
Last Strat Jordan **Depth to Bedrock** 20 **ft.**

County Well Index Online Report **409492** Printed 6/28/2008 HE-01205-07

STATE_02822547

2222.1590

Minnesota Unique Well No.
511181

County Fillmore
Quad Preston
Quad ID 5A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 01/08/1992
Update Date 05/06/2005
Received Date

Well Name CITY OF PRESTON
Township Range Dir Section Subsections Elevation 930 **ft.**
102 10 W 6 ADAABB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
17 ft.	17 ft.	11/02/1990

Drilling Method Power Auger

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 2.5 **ft.**

Casing Diameter	Weight	Hole Diameter
2 in. to 7 ft.	lbs./ft.	10 in. to 17 ft.

Open Hole from ft. to ft.

Screen YES **Make** HOWARD SMITH **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	1	10	7 ft. and 17 ft.

Well Address
609 FILLMORE ST
PRESTON MN

Geological Material	Color	Hardness	From	To
SILT	BLACK	SOFT	0	8
SILTY SAND	GRAY	SOFT	8	13
POORLY GRADED SAND	LT. BRN	SOFT	13	17

Static Water Level
13 ft. from Land surface Date Measured 11/02/1990

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
WELL SEALED 07-09-1993 BY M0104
ORIGINAL USE MW - MONITOR WELL

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement	from 0 to 2 ft	0
Grout Material: Bentonite	from 2 to 5 ft	0

Located Minnesota Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Address verification **Date** N/A

System *UTM - Nad83, Zone15, Meters* **X:** 574899 **Y:** 4835655

Nearest Known Source of Contamination
50 feet W direction Tanks type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP 0 Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification

License Business Name	Lic. Or Reg. No.	Name of Driller
Braun Intertec Env.	M0109	THRONSON, G.

First Bedrock
Last Strat Sand-brown
Aquifer Quat. Water Table Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **511181** | Printed 6/28/2008 HE-01205-07

Minnesota Unique Well No.
511182

County Fillmore
Quad Preston
Quad ID 5A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 01/08/1992
Update Date 05/06/2005
Received Date

Well Name CITY OF PRESTON
Township Range Dir Section Subsections Elevation 930 **ft.**
102 10 W 6 AADDCB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
17 ft.	17 ft.	11/02/1990

Drilling Method Power Auger

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 2.3 **ft.**

Casing Diameter	Weight	Hole Diameter
2 in. to 7 ft.	lbs./ft.	10 in. to 17 ft.

Open Hole from ft. to ft.

Screen YES **Make** HOWARD SMITH **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	1	10	7 ft. and 17 ft.

Well Address
609 FILLMORE ST
PRESTON MN

Geological Material	Color	Hardness	From	To
SILT	DK. BRN	SOFT	0	5
SILTY SAND	BROWN	SOFT	5	13
POORLY GRADED SAND	BROWN	SOFT	13	17

Static Water Level
13 ft. from Land surface Date Measured 11/02/1990

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
WELL SEALED 07-09-1993 BY M0104
ORIGINAL USE MW - MONITOR WELL

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement	from 0 to 2 ft	0
Grout Material: Bentonite	from 2 to 5 ft	0

Located Minnesota Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Address verification **Date** N/A

System *UTM - Nad83, Zone15, Meters* **X:** 574916 **Y:** 4835694

Nearest Known Source of Contamination
75 feet South West direction Tanks type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP 0 Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification

License Business Name	Lic. Or Reg. No.	Name of Driller
Braun Intertec Env.	M0109	THRONSON, G.

First Bedrock
Last Strat Sand-brown
Aquifer Quat. Water Table Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **511182** | Printed 6/28/2008 HE-01205-07

Minnesota Unique Well No.
571139

County Fillmore
Quad Preston
Quad ID 5A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 06/02/2000
Update Date 03/11/2005
Received Date

Well Name WOODWARD, MARK A.
Township Range Dir Section Subsections Elevation 1058 **ft.**
102 10 W 5 CBBCCD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
453 ft.	453 ft.	05/01/1997

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☑ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
8 in. to 51.5 ft.	lbs./ft.	
4 in. to 414.6 ft.	lbs./ft.	

Open Hole from 415 ft. to 453 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
119 ft. from Land surface Date Measured 05/01/1997

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer WHITEWATER Model PAT 260
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
206 LINCOLN ST
PRESTON MN 55965

Geological Material	Color	Hardness	From	To
CLAY	BROWN	SOFT	0	13
GRAVEL W/SAND	BROWN	SOFT	13	24
COARSE GRAVEL	VARIED	SOFT	24	51
DOLOMITE	TAN	MEDIUM	51	132
SANDSTONE	YELLOW	SOFT	132	149
DOLOMITE	GRAY	MEDIUM	149	354
V. SOFT SANDSTONE W/GRAVEL	BROWN	V.SOFT	354	395
SANDSTONE	GRAY	SOFT	395	450
SHALY DOLOMITE	GRAY	MEDIUM	450	453

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement	from 0 to 415 ft.	10.75 yrds.
Grout Material: Pearock	from to ft.	5 yrds.

Located Winona State University **Method** GPS Differentially Corrected
Unique Number Verification Tag on well **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 575033 **Y:** 4835289

Nearest Known Source of Contamination
100 feet E direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name GRUNFOS Model number 10S07-12 HP 0.75 Volts 230
Length of drop Pipe 147 ft. Capacity 10 g.p.m Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
Rowland Well Co. 23124 ROWLAND, N.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Prairie Du Chien Group **Aquifer** Jordan-St.Lawrence
Last Strat St.Lawrence **Depth to Bedrock ft.**

County Well Index Online Report | **571139** | Printed 6/28/2008 HE-01205-07

STATE_02822550

2222.1593

SITE SUMMARY

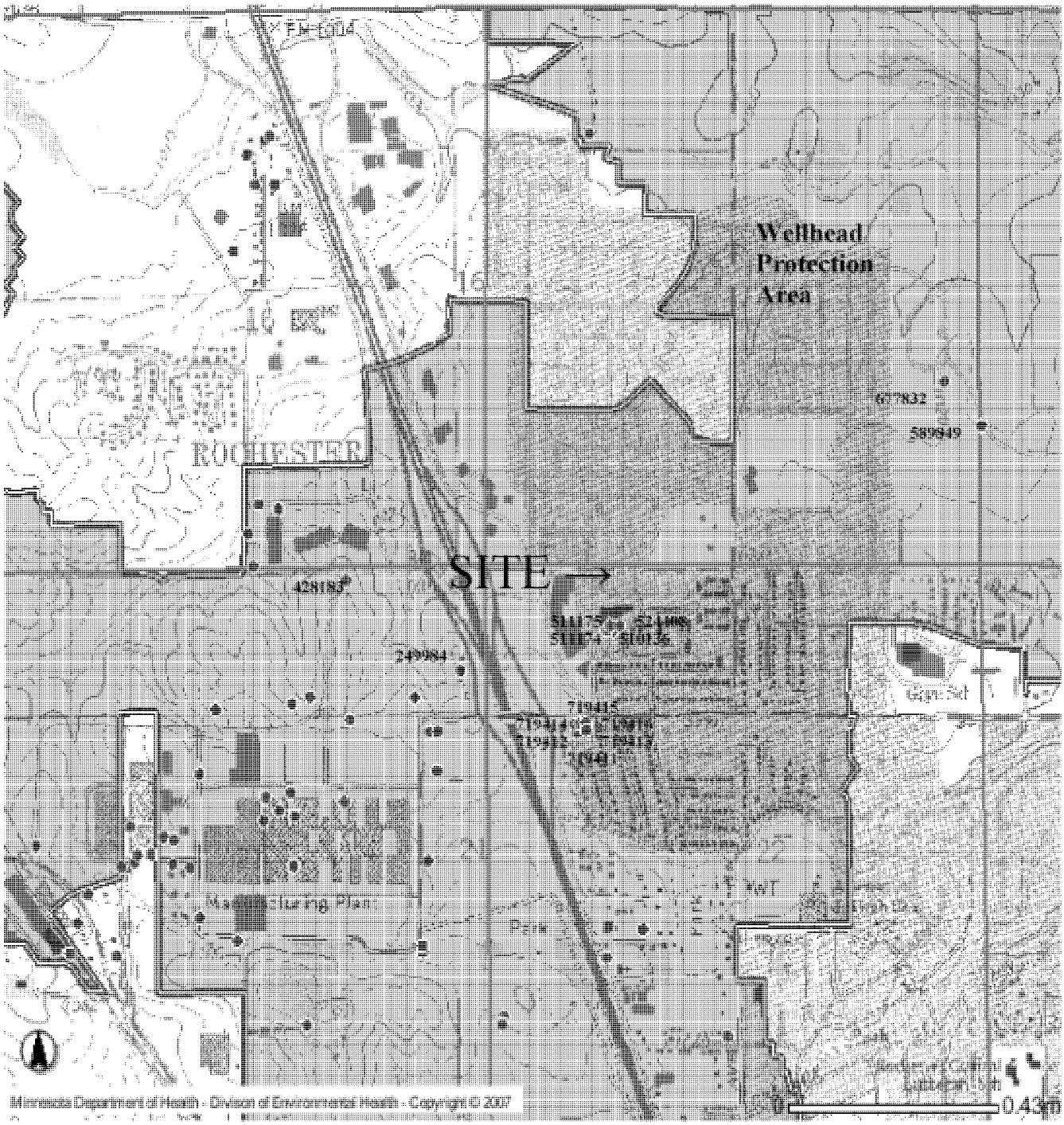
Site Name: Rochester

Fire Department: Rochester Fire Department
201 4th Street SE, Room 10
Rochester, MN 55904

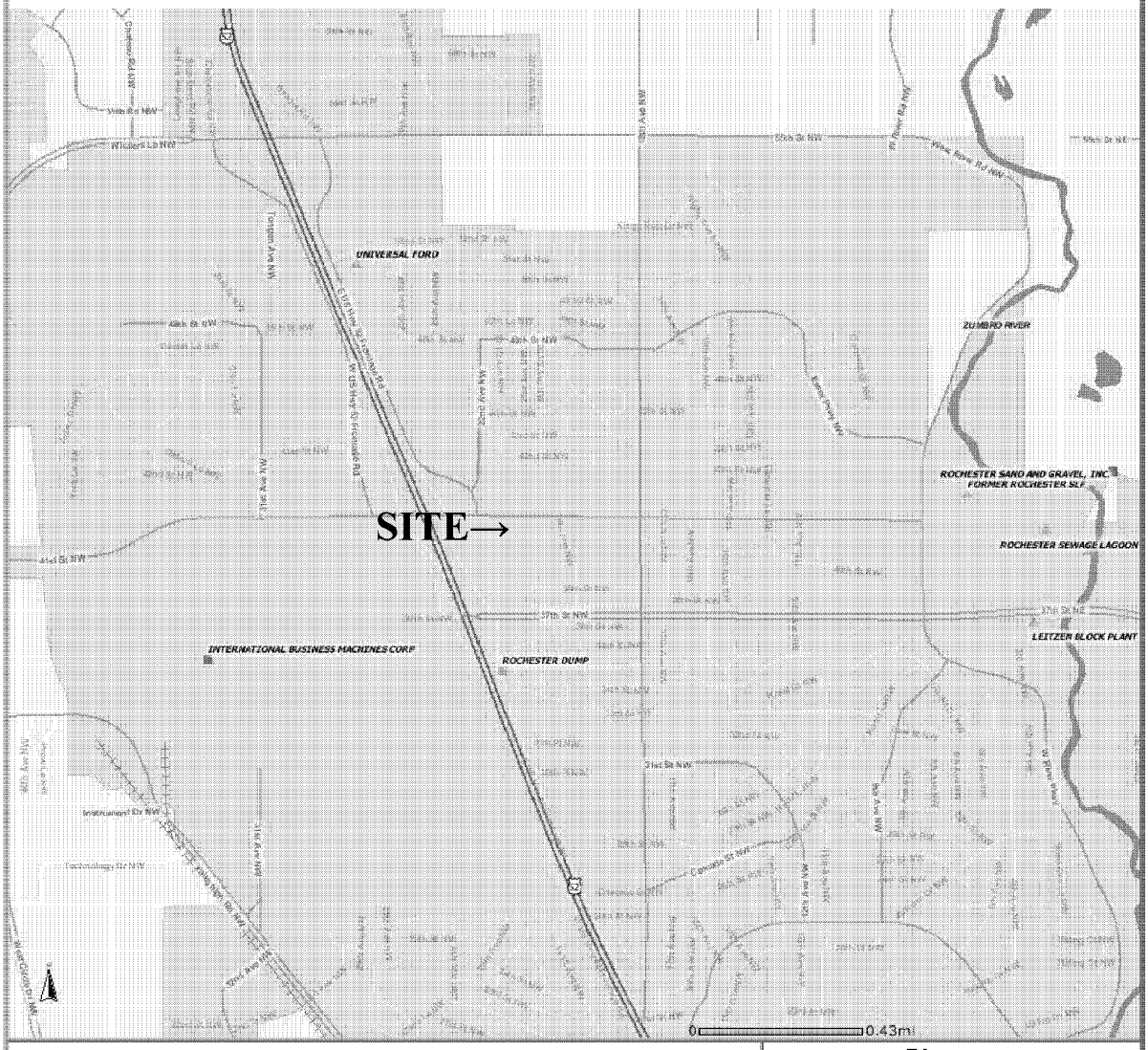
Site Contact: Dan Slavin, Deputy Fire Chief
507-328-2813
dslavin@rochestermn.gov

Training Location:	2021 41st Street NW, Rochester
Type of foam used in training:	AFFF: 3M Class A: 3M Other: HCT F-500 emulsifier
Foam training frequency:	Annually
Foam use per training event:	5 gallons
Spent foam destination:	Ground
Annual foam use:	AFFF: 5 gallons Class A: 5 gallons Other: 25 gallons
Nearest surface water:	Intermittent stream 1/4 to 1/3 mile west
Nearest wetland:	1/2 to 1 mile west
Karst Area:	Training site is located in an active karst area
Nearest water well:	Less than 1/4 mile south
Nearest Wellhead Protection Area:	Training site located in Wellhead Protection Area
SITE RANKING:	**25**

ROCHESTER - 41st Street NW CWI Well Map



Rochester *What's In My Neighborhood* Map



Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

Minnesota Pollution Control Agency

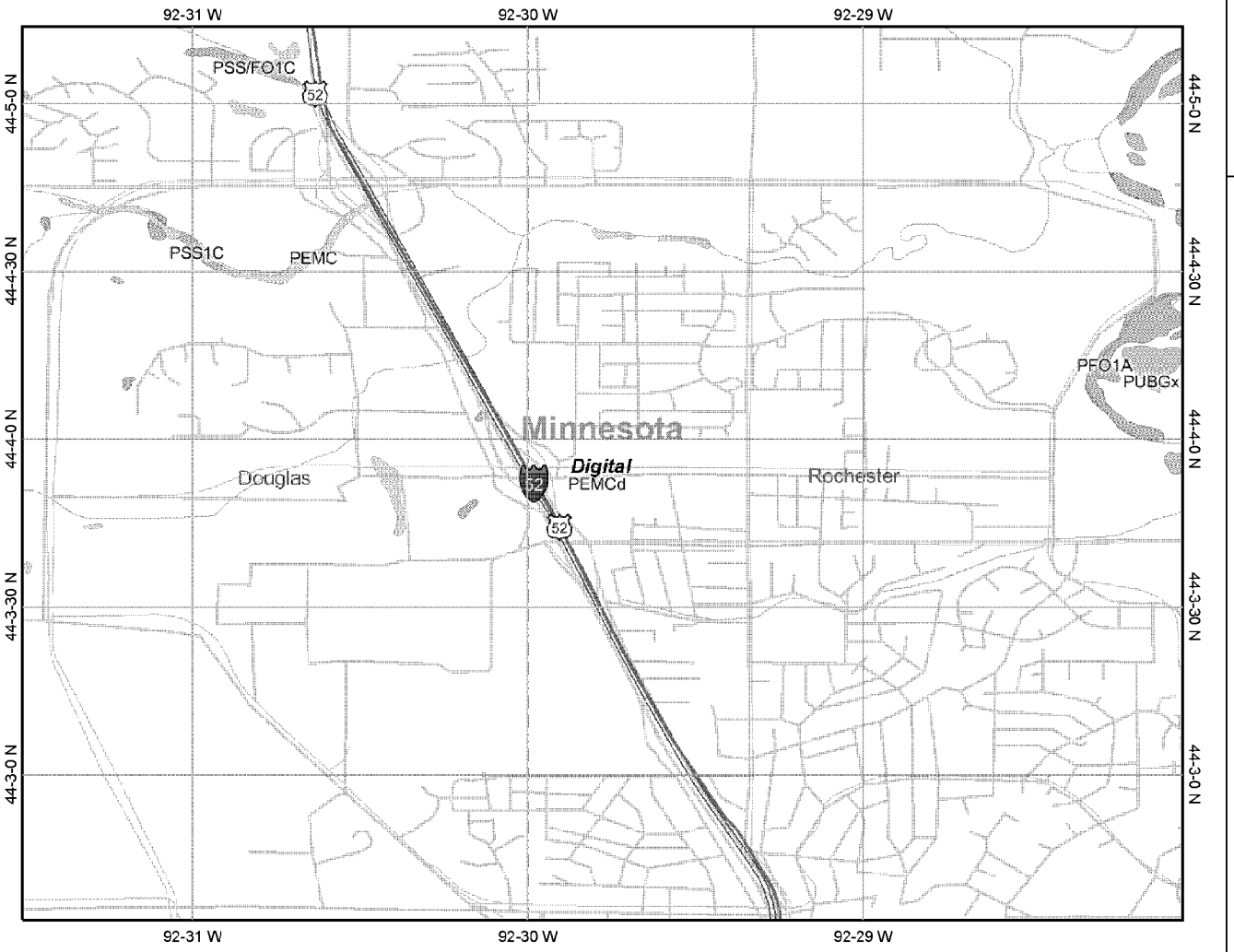
Sites

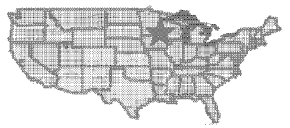
- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

STATE_02822553

2222.1596

Rochester





Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:34,575

Map center: 44° 3' 54" N, 92° 29' 47" W

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

2222.1597

STATE_02822554

Minnesota Unique Well No.
249984

County Olmsted
Quad Rochester
Quad ID 49C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 05/29/1995
Update Date 05/31/1995
Received Date

Well Name IBM 813-W
Township Range Dir Section Subsections Elevation 1072 **ft.**
107 14 W 21 AADACC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
168 ft.	168 ft.	00/00/1968

Drilling Method --

Geological Material	Color	Hardness	From	To
GLACIAL DRIFT			0	59
ST. PETER SANDSTONE			59	62
PRAIRIE DU CHIEN GROUP			62	168

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Monitor well

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
DEEPENED TO 168' IN 1968.
RABEHL FARM WELL AT NORTH SIDE OF IBM SITE. NEAR MAIN ENTRANCE GUARD

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Other, note in remarks
Date N/A
System *UTM - Nad83, Zone15, Meters* **X:** 540044 **Y:** 4878957

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Minnesota Geological Survey MGS
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock St.Peter
Last Strat Prairie Du Chien Group
Aquifer
Depth to Bedrock 59 **ft.**

County Well Index Online Report | **249984** | Printed 6/29/2008 HE-01205-07

STATE_02822555

2222.1598

Minnesota Unique Well No.
428183

County Olmsted
Quad Douglas
Quad ID 50D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 02/13/1989
Update Date 05/06/2005
Received Date

Well Name MW-823W
Township Range Dir Section Subsections Elevation 1065 **ft.**
107 14 W 21 ABAABD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
63 ft.	62 ft.	08/21/1987

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Stainless Steel **Joint** Threaded **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 2.2 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 52 ft.	lbs./ft.	10 in. to 47 ft.
		8 in. to 63 ft.

Geological Material	Color	Hardness	From	To
LEAN CLAY	BROWN	SOFT	0	1
SILT	LT. BRN	MEDIUM	1	17
SANDY LEAN CLAY	BROWN	MEDIUM	17	21
SAND	BROWN	MEDIUM	21	23
CLAYEY SAND	GRAY		23	24
SANDY LEAN CLAY	GRAY	HARD	24	36
SILT	GRAY	HARD	36	38
FAT CLAY	GRAY	HARD	38	41
SAND	GRAY		41	42
SANDY LEAN CLAY	GRAY	HARD	42	48
LIMESTONE	LT. BRN	HARD	48	63

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	10	10	52 ft. and 62 ft.

Static Water Level
19.9 ft. from Land surface Date Measured 08/21/1987

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
WELL SEALED 10-17-1997 BY 27058
ORIGINAL USE MW - MONITOR WELL

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Neat Cement from 0 to 48 ft. 0

Located Minnesota Geological Survey **Method** Digitization (Screen) - Map (1:24,000)
Unique Number Verification Other, note in remarks **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 539671 **Y:** 4879215

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Braun Eng Testing M0005 LILJA, M.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Prairie Du Chien Group **Aquifer** Prairie Du Chien Group
Last Strat Prairie Du Chien Group **Depth to Bedrock** 48 **ft.**

County Well Index Online Report | **428183** | Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
510136

County Olmsted
Quad Rochester
Quad ID 49C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 01/25/1993
Update Date 11/09/2007
Received Date 09/28/1990

Well Name MW

Township	Range	Dir	Section	Subsections	Elevation
107	14	W	22	BABC	1040 ft.

Elevation Method Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
15 ft.	14 ft.	09/19/1990

Drilling Method Power Auger

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 3 ft.

Casing Diameter	Weight	Hole Diameter
2 in. to 3.5 ft.	lbs./ft.	10 in. to 14 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	10	10	4 ft. and 14 ft.

Well Address
4001 19TH AV NW
ROCHESTER MN

Geological Material	Color	Hardness	From	To
CLAY	BROWN	SOFT	0	8
SILT	GRAY	SOFT	8	15

Static Water Level
4.6 ft. from Land surface Date Measured 09/19/1990

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
SURFACE ELEVATION 1041 +/- 5 BASED ON USGS 7.5' QUAD "ROCHESTER MN".
WELL SEALED 05-08-1995 BY M0104
ORIGINAL USE MW - MONITOR WELL

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Bentonite from 1 to 3 ft.
Grout Material: Neat Cement from to 1 ft.

Located Minnesota Department of Health **Method** Digitization (Screen) - Map (1:12,000)

Unique Number Verification Site Plan **Date** 05/18/2005

System *UTM - Nad83, Zone15, Meters* **X:** 540541 **Y:** 4879072

Nearest Known Source of Contamination
50 feet W direction Volatile organic compounds type
Well disinfected upon completion? ☐ Yes ☑ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Docs property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification

License Business Name	Lic. Or Reg. No.	Name of Driller
Braun Intertec Env.	M0109	THRONSON, G.

First Bedrock **Aquifer**
Last Strat **Depth to Bedrock** ft.

County Well Index Online Report **510136** Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
511174

County Olmsted
Quad Rochester
Quad ID 49C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 01/25/1993
Update Date 11/09/2007
Received Date

Well Name MW
Township Range Dir Section Subsections Elevation 1040 **ft.**
107 14 W 22 BBAD **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
13 **ft.**	13 **ft.**	09/21/1990

Drilling Method Power Auger

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 2.6 **ft.**

Casing Diameter	Weight	Hole Diameter
2 in. to 2.5 ft.	lbs./ft.	10 in. to 13 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	10	10	2.5 ft. and 12.5 ft.

Well Address
4001 19TH AV NW
ROCHESTER MN

Geological Material	Color	Hardness	From	To
CLAY	BROWN	SOFT	0	8
SILT	GRAY	SOFT	8	13

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
SURFACE ELEVATION 1041 +/- 5 BASED ON USGS 7.5' QUAD "ROCHESTER MN".
WELL SEALED 05-08-1995 BY M0104
ORIGINAL USE MW - MONITOR WELL

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Bentonite from 1 to 2 ft.
Grout Material: Neat Cement from to 1 ft.

Located Minnesota Department of Health
Method Digitization (Screen) - Map (1:12,000)
Unique Number Verification Site Plan
Date 05/18/2005
System *UTM - Nad83, Zone15, Meters*
X: 540523 **Y:** 4879072

Nearest Known Source of Contamination
15 feet N direction Volatile organic compounds type
Well disinfected upon completion? ☐ Yes ☑ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Braun Intertec Env. M0109 THRONSON, G.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat
Aquifer
Depth to Bedrock ft.

County Well Index Online Report **511174** Printed 6/29/2008 HE-01205-07

STATE_02822558

2222.1601

Minnesota Unique Well No.
511175

County Olmsted
Quad Rochester
Quad ID 49C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 01/25/1993
Update Date 11/09/2007
Received Date 09/28/1990

Well Name MW
Township Range Dir Section Subsections Elevation 1041 **ft.**
107 14 W 22 BBADDA **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
13 ft.	13 ft.	09/21/1990

Drilling Method Power Auger

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☐ Yes ☑ No **Above/Below** ft.

Casing Diameter	Weight	Hole Diameter
		10 in. to 13 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
7	10	10	3 ft. and 13 ft.

Well Address
4001 19TH AV NW
ROCHESTER MN

Geological Material	Color	Hardness	From	To
CLAY	BROWN		0	10
CLAY	GRAY		10	13

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
SURFACE ELEVATION 1041 +/- 5 BASED ON USGS 7.5' QUAD "ROCHESTER, MN".
WELL SEALED 05-08-1995 BY M0104
ORIGINAL USE MW - MONITOR WELL

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Bentonite from 1 to 2 ft.
Grout Material: Neat Cement from to 1 ft.

Located Minnesota Department of Health **Method** Digitization (Screen) - Map (1:12,000)
Unique Number Verification Site Plan **Date** 06/14/2005
System *UTM - Nad83, Zone15, Meters* **X:** 540532 **Y:** 4879086

Nearest Known Source of Contamination
20 feet S direction Volatile organic compounds type
Well disinfected upon completion? ☐ Yes ☑ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Braun Intertec Env. M0109 THRONSON, G.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock **Aquifer**
Last Strat **Depth to Bedrock** ft.

County Well Index Online Report **511175** Printed 6/29/2008 HF-01205-07

Minnesota Unique Well No.
524408

County Olmsted
Quad Rochester
Quad ID 49C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 02/20/1995
Update Date 11/09/2007
Received Date 12/23/1993

Well Name MW-
Township Range Dir Section Subsections Elevation 1040 **ft.**
107 14 W 22 BABCCA **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
15 ft.	15 ft.	10/12/1993

Drilling Method Auger (non-specified)

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Plastic **Joint** Threaded **Drive Shoe?** ☐ Yes ☑ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
2 in. to 4.8 ft.	lbs./ft.	10 in. to 15 ft.

Open Hole from ft. to ft.

Screen YES **Make** TIMCO **Type** plastic

Diameter	Slot/Gauze	Length	Set Between
2	10	10	5 ft. and 15 ft.

Well Address
4001 19TH AV NW
ROCHESTER MN

Geological Material	Color	Hardness	From	To
TOPSOIL	BLACK	SOFT	0	1
GRAVEL	TAN	HARD	1	6
SANDY CLAY	BROWN	SOFT	6	15

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☑ Casing Protection Y ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
WELL SEALED 05-08-1995 BY M0104
ORIGINAL USE MW - MONITOR WELL

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement from to 1 ft.

Located Minnesota Department of Health
Method Digitization (Screen) - Map (1:12,000)
Unique Number Verification Site Plan
Date 06/14/2005
System *UTM - Nad83, Zone15, Meters*
X: 540564 **Y:** 4879086

Nearest Known Source of Contamination
150 feet South West direction Volatile organic compounds type
Well disinfected upon completion? ☐ Yes ☑ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

STATE_02822560

First Bedrock **Aquifer** **Last Strat** **Depth to Bedrock ft.**	**Well Contractor Certification** Braun Intertec Eng M0104 QUANDT, S. License Business Name Lic. Or Reg. No. Name of Driller	
County Well Index Online Report	**524408**	Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
589849

County Olmsted
Quad Rochester
Quad ID 49C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 05/28/2003
Update Date 11/05/2007
Received Date 05/05/2003

Well Name P7-2

Township	Range	Dir	Section	Subsections	Elevation	
107	14	W	14	CBCCCC	1020 ft.	7.5 minute topographic map (+/- 5 feet)

Elevation Method

Well Depth	Depth Completed	Date Well Completed
60.7 ft.	60.7 ft.	04/03/2003

Drilling Method Auger (non-specified)

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Piezometer

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☐ Yes ☑ No **Above/Below** ft.

Casing Diameter	Weight	Hole Diameter
2 in. to 50.7 ft.	lbs./ft.	10 in. to 16.5 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	10	10	50.7 ft. and 60.7 ft.

Well Address
201 4TH ST SE
ROCHESTER MN 55904

Geological Material	Color	Hardness	From	To
FILL	BROWN		0	5
LEAN CLAY STIFF	BROWN		5	6
CLAYEY SAND	BROWN	SOFT	6	13
SAND WITH SILT LOOSE	BROWN		13	17
DOLOSTONE	BROWN	HARD	17	61

Static Water Level
49.5 ft. from Land surface Date Measured 03/26/2003

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☑ Casing Protection Y ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: High solids bentonite from 1.5 to 42.5 ft. 2 bags

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)

Unique Number Verification Tag on well
Date 01/13/2004

System *UTM - Nad83, Zone15, Meters*
X: 541745 **Y:** 4879657

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
American Engineering Testing M0156 JOHNSON, K.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat
Aquifer
Depth to Bedrock ft.

County Well Index Online Report

589849

Printed 6/29/2008
HE-01205-07

Minnesota Unique Well No.
677832

County Olmsted
Quad Rochester
Quad ID 49C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date
Update Date 05/06/2005
Received Date 02/02/2004

Well Name PZ-4

Township	Range	Dir	Section	Subsections	Elevation Method	Elevation
107	14	W	15	DADB	Calc from DEM (USGS 7.5 min or equiv.)	1020 ft.

Well Depth	Depth Completed	Date Well Completed
52.2 ft.	52.2 ft.	07/18/2003

Drilling Method Non-specified Rotary

Geological Material	Color	Hardness	From	To
SILTY CLAY	BROWN	SOFT	0	5
WEATHERED LIMESTONE	BROWN	HARD	5	7
LIMESTONE	TAN	HARD	7	52

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Piezometer

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** ft.

Casing Diameter	Weight	Hole Diameter
2 in. to 42.2 ft.	lbs./ft.	6 in. to 52.2 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	10	10	42.2 ft. and 52.2 ft.

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☑ Casing Protection Y ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
AET #11-02323.2, SB 21 (#4)

Located Minnesota Department of Health
Method Digitization (Screen) - Map (1:12,000)
Unique Number Verification Site Plan
Date 05/06/2005
System *UTM - Nad83, Zone15, Meters*
X: 541623 **Y:** 4879783

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Neat Cement from 0.5 to 25.8 ft. 4 bags

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
American Engineering Testing M0156 JOHNSON, K.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat
Aquifer
Depth to Bedrock ft.

County Well Index Online Report

677832

Printed 6/29/2008
HE-01205-07

Minnesota Unique Well No.
719411

County Olmsted
Quad Rochester
Quad ID 49C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date
Update Date 11/09/2007
Received Date 11/12/2004

Well Name MW-4
Township Range Dir Section Subsections Elevation 1059 **ft.**
107 14 W 22 BCAA **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
20 ft.	18 ft.	09/28/2004

Drilling Method Auger (non-specified)

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Monitor well

Casing Type Plastic **Joint** Threaded **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
2 in. to 3 ft.	lbs./ft.	8.25 in. to 20 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOIINSON **Type** plastic

Diameter	Slot/Gauze	Length	Set Between
2	10	15	3 ft. and 18 ft.

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☑ At-grade (Environmental Wells and Borings ONLY)

Well Address
2110 37TH ST NW
ROCHESTER MN 55904

Geological Material	Color	Hardness	From	To
NO RECORD			0	5
SANDY SILT	GRAY	SOFT	5	7
NO RECORD			7	8
SANDY SILT MED-COARSE SAND	GRY/BRN	SOFT	8	10
NO RECORD			10	13
MED COARSE SAND CLAY W/ C SAND	BRN/GRY	SOFT	13	15
NO RECORD			15	18
SILTY CLAY	GRAY	SOFT	18	20

REMARKS
MW-4, 04-E-19307

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: High solids bentonite from to 2 ft. 1 bags

Located Minnesota Department of Health
Method Digitization (Screen) - Map (1:12,000)
Unique Number Verification Site Plan
Date 05/09/2005
System *UTM - Nad83, Zone15, Meters*
X: 540454 **Y:** 4878786

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
Bergerson-Caswell 27058 LENZMEIER, D.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat
Aquifer
Depth to Bedrock ft.

County Well Index Online Report

719411

Printed 6/29/2008
HE-01205-07

STATE_02822564

2222.1607

Minnesota Unique Well No.
719412

County Olmsted
Quad Rochester
Quad ID 49C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date
Update Date 11/09/2007
Received Date 11/12/2004

Well Name MW-6

Township	Range	Dir	Section	Subsections	Elevation
107	14	W	22	BCAB	1061 ft.

Elevation Method Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
20 ft.	18 ft.	09/28/2004

Drilling Method Auger (non-specified)

Well Address
2110 37TH ST NW
ROCHESTER MN 55904

Geological Material	Color	Hardness	From	To
NO RECOVERY			0	5
RUBBLE/ROCKS SLIGHTLY SANDY		MEDIUM	5	7
SILTY CLAY	BROWN	MEDIUM	8	10
SILTY CLAY	BRN/GRY	MEDIUM	13	15
SILTY CLAY	GRAY	MEDIUM	18	20

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Monitor well

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
2 in. to 3 ft.	lbs./ft.	8.25 in. to 20 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** plastic

Diameter	Slot/Gauze	Length	Set Between
2	10	15	3 ft. and 18 ft.

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☑ At-grade (Environmental Wells and Borings ONLY)

REMARKS
MW-6, 04-E-19307

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: High solids bentonite from to 2 ft. 1 bags

Located Minnesota Department of Health

Method Digitization (Screen) - Map (1:12,000)

Unique Number Verification Site Plan

Date 05/09/2005

System *UTM - Nad83, Zone15, Meters*

X: 540424 **Y:** 4878781

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
Bergerson-Caswell 27058 LENZMEIER, D.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat
Aquifer
Depth to Bedrock ft.

County Well Index Online Report

719412

Printed 6/29/2008
HE-01205-07

Minnesota Unique Well No.
719413

County Olmsted
Quad Rochester
Quad ID 49C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date
Update Date 11/09/2007
Received Date 11/12/2004

Well Name MW-3
Township Range Dir Section Subsections Elevation 1059 **ft.**
107 14 W 22 BCAA **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
20 **ft.**	18 **ft.**	09/28/2004

Drilling Method Auger (non-specified)

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Monitor well

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter	Weight	Hole Diameter
2 in. to 3 ft.	lbs./ft.	8.25 in. to 20 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** plastic

Diameter	Slot/Gauze	Length	Set Between
2	10	15	3 ft. and 18 ft.

Well Address
2110 37TH ST NW
ROCHESTER MN 55904

Geological Material	Color	Hardness	From	To
NO RECORD			0	5
SANDY SILT	BROWN	SOFT	5	7
NO RECORD			7	8
SANDY SILT, SILTY CLAY	BROWN	SOFT	8	10
NO RECORD			10	13
SILTY CLAY	BROWN	SOFT	13	15
NO RECORD			15	18
SILTY CLAY	GRAY	SOFT	18	20

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☑ At-grade (Environmental Wells and Borings ONLY)

REMARKS
MW-3, 04-E-19307

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: High solids bentonite from to 2 ft. 1 bags

Located Minnesota Department of Health **Method** Digitization (Screen) - Map (1:12,000)

Unique Number Verification Site Plan **Date** 05/09/2005

System *UTM - Nad83, Zone15, Meters* **X:** 540458 **Y:** 4878801

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

First Bedrock **Aquifer**
Last Strat **Depth to Bedrock** **ft.**

Well Contractor Certification
Bergerson-Caswell 27058 LENZMEIER, D.
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report	719413	Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
719414

County Olmsted
Quad Rochester
Quad ID 49C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 02/28/2005
Update Date 11/09/2007
Received Date 11/12/2004

Well Name MW-5

Township	Range	Dir	Section	Subsections	Elevation
107	14	W	22	BCAB	1062 ft.

Elevation Method Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
20 ft.	18 ft.	09/29/2004

Drilling Method Auger (non-specified)

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Monitor well

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** ft.

Casing Diameter	Weight	Hole Diameter
2 in. to 3 ft.	lbs./ft.	8.25 in. to 20 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** plastic

Diameter	Slot/Gauze	Length	Set Between
2	10	15	3 ft. and 18 ft.

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☑ Casing Protection Y ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
2110 37TH ST NW
ROCHESTER MN 55904

Geological Material	Color	Hardness	From	To
NO RECORD			0	5
SANDY SILT	BROWN	SOFT	5	10
NO RECORD			10	13
SANDY SILT SILTY CLAY	BRN/GRY	SOFT	13	15
NO RECORD			15	18
SILTY CLAY	GRAY	SOFT	18	20

REMARKS
MW-5, 04-F-19307

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: High solids bentonite from 0 to 2.5 ft. 1 bags

Located Minnesota Department of Health
Method Digitization (Screen) - Map (1:12,000)
Unique Number Verification Site Plan
Date 05/09/2005
System *UTM - Nad83, Zone15, Meters*
X: 540416 **Y:** 4878803

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
Bergerson-Caswell 27058 LENZMEIER, D.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat
Aquifer
Depth to Bedrock ft.

STATE_02822568

2222.1611

County Well Index Online Report	719414	Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
719415

County Olmsted
Quad Rochester
Quad ID 49C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date
Update Date 11/09/2007
Received Date 11/12/2004

Well Name MW-2

Township	Range	Dir	Section	Subsections	Elevation	Elevation Method
107	14	W	22	BCAB	1061 ft.	Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
20 ft.	18 ft.	09/28/2004

Drilling Method Auger (non-specified)

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Monitor well

Casing Type Plastic **Joint** Threaded **Drive Shoe?** ☐ Yes ☐ No **Above/Below** ft.

Casing Diameter	Weight	Hole Diameter
2 in. to 3 ft.	lbs./ft.	8.25 in. to 20 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** plastic

Diameter	Slot/Gauze	Length	Set Between
2	10	15	3 ft. and 18 ft.

Well Address
2110 37TH ST NW
ROCHESTER MN 55904

Geological Material	Color	Hardness	From	To
NO RECORD			0	5
SAND, SANDY SILT	BRN/GRY	SOFT	5	7
NO RECORD			7	8
SANDY SILT, SAND, SILTY CLAY	GRY/BLK	SOFT	8	10
NO RECORD			10	13
SILTY CLAY	GRY/BRN	SOFT	13	15
NO RECORD			15	18
SILTY CLAY	GRAY	MEDIUM	18	20

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☑ At-grade (Environmental Wells and Borings ONLY)

REMARKS
MW-2, 04-E-19307

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: High solids bentonite from to 2 ft. 1 bags

Located Minnesota Department of Health

Method Digitization (Screen) - Map (1:12,000)

Unique Number Verification Site Plan

Date 05/09/2005

System *UTM - Nad83, Zone15, Meters*

X: 540433 **Y:** 4878806

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
Bergerson-Caswell 27058 LENZMEIER, D.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat
Aquifer
Depth to Bedrock ft.

County Well Index Online Report

719415

Printed 6/29/2008
HE-01205-07

Minnesota Unique Well No.
719416

County Olmsted
Quad Rochester
Quad ID 49C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date
Update Date 11/09/2007
Received Date 11/12/2004

Well Name MW-1
Township Range Dir Section Subsections Elevation 1059 **ft.**
107 14 W 22 BCAA **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
20 **ft.**	18 **ft.**	09/28/2004

Drilling Method Auger (non-specified)

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Monitor well

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
2 in. to 3 ft.	lbs./ft.	8.25 in. to 20 ft.

Well Address
2110 37TH ST NW
ROCHESTER MN 55904

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** plastic

Diameter	Slot/Gauze	Length	Set Between
2	10	15	3 ft. and 18 ft.

Geological Material	Color	Hardness	From	To
NO RECORD			0	5
COARSE SAND, SANDY SILT	BRN/GRY	MEDIUM	5	7
NO RECORD			7	8
SANDY SILT	GRAY	SOFT	8	10
NO RECORD			10	13
SANDY SILT CLAYEY SILT	GRAY	SOFT	13	15
NO RECORD			15	18
CLAYEY SILT	GRAY	SOFT	18	20

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☑ At-grade (Environmental Wells and Borings ONLY)

REMARKS
MW-1, 04-E-19307

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: High solids bentonite from to 2 ft. 1 bags

Located Minnesota Department of Health
Method Digitization (Screen) - Map (1:12,000)
Unique Number Verification Site Plan
Date 05/09/2005
System *UTM - Nad83, Zone15, Meters*
X: 540452 **Y:** 4878807

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

First Bedrock
Last Strat
Aquifer
Depth to Bedrock ft.

Well Contractor Certification
Bergerson-Caswell 27058 LENZMEIER, D.
License Business Name Lic. Or Reg. No. Name of Driller

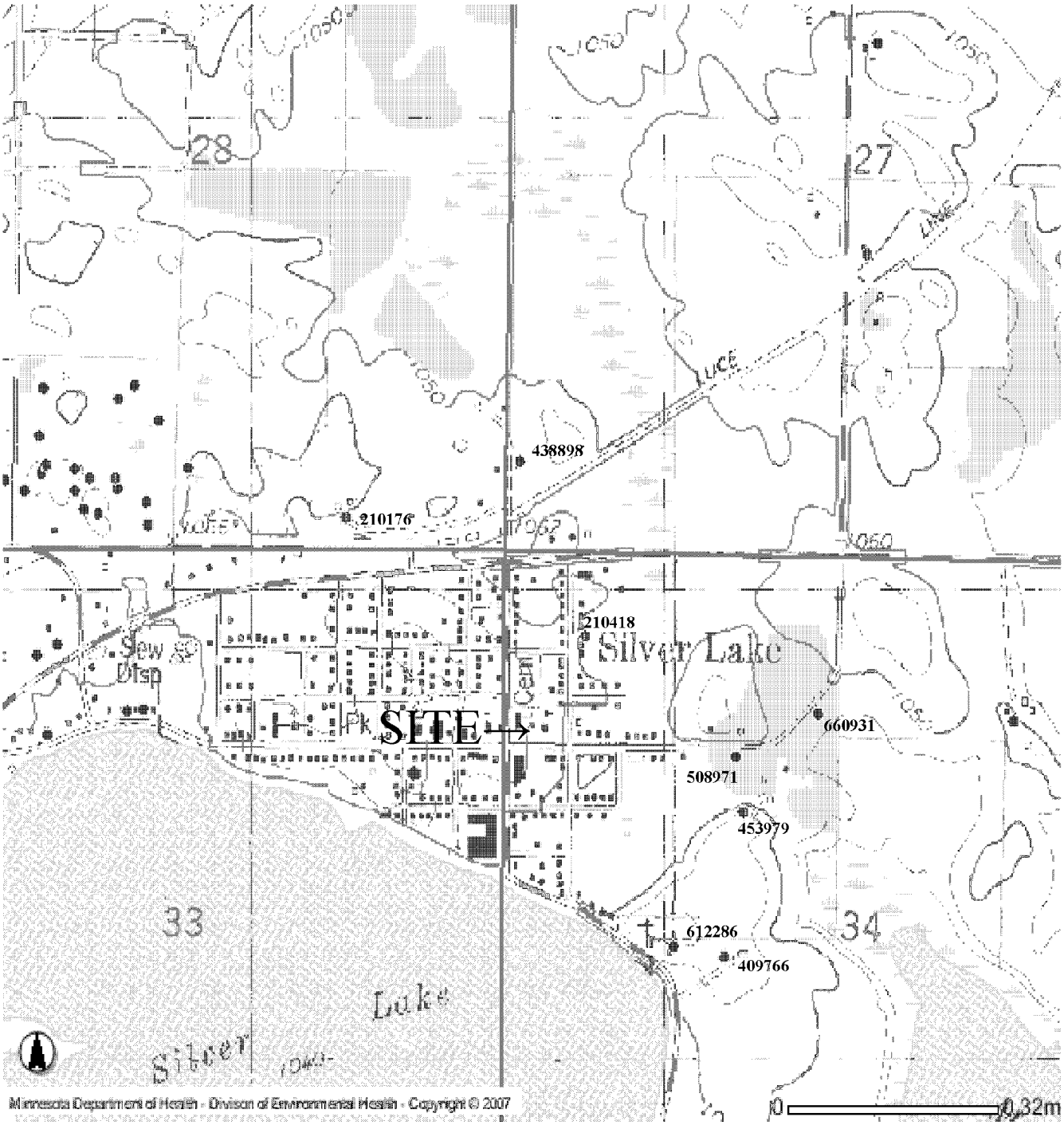
County Well Index Online Report | **719416** | Printed 6/29/2008 HE-01205-07

SITE SUMMARY

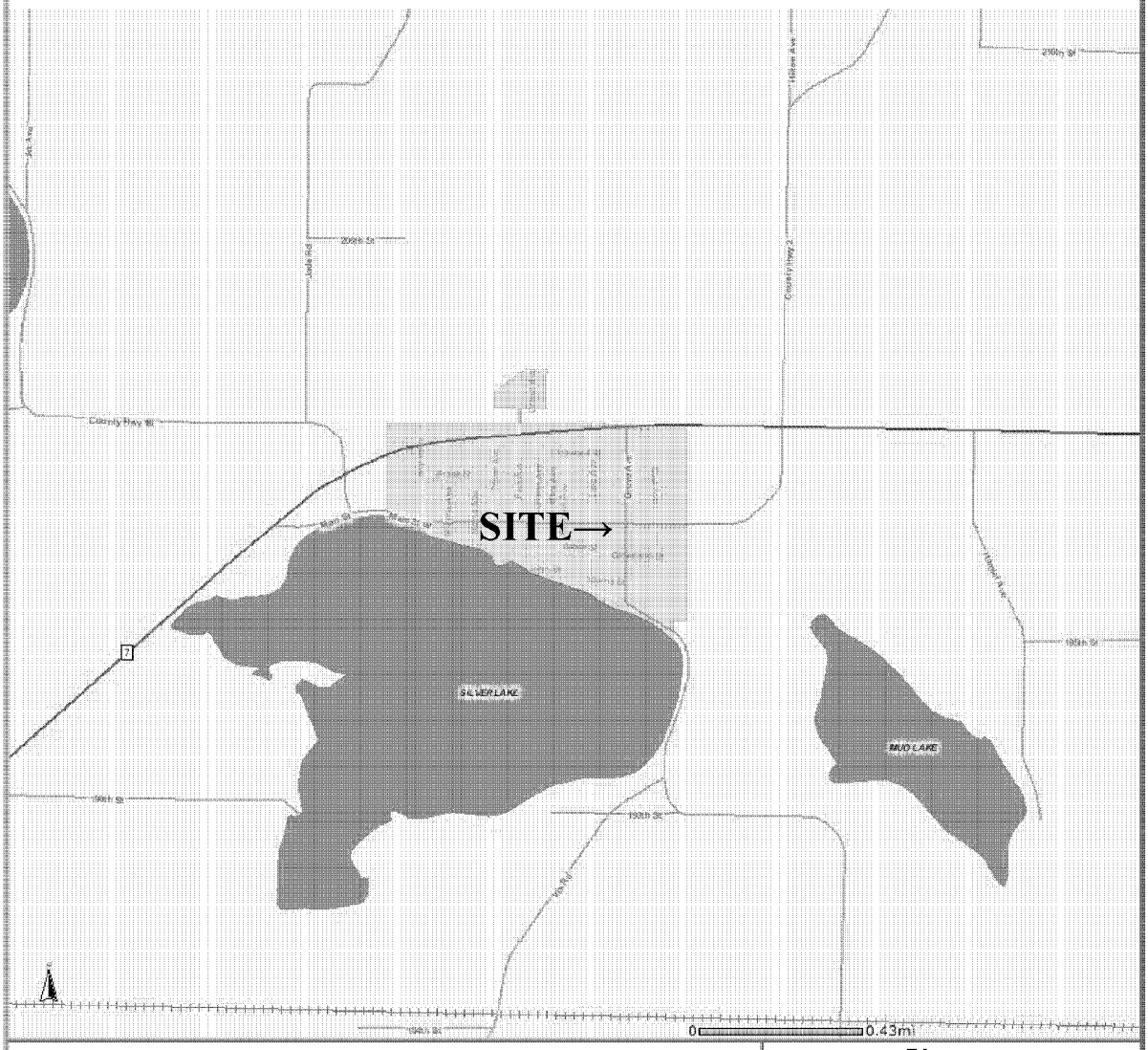
Site Name:	Silver Lake
Fire Department:	Silver Lake Fire Department 308 W. Main Silver Lake, MN 55381
Site Contact:	Dale Kosek, Assistant Fire Chief 320-327-2412 dale.kosek@mchsi.com

Training Location:	Public works material storage area, 305 E. Main Street, Silver Lake
Type of foam used in training:	AFFF: Angus Tridex
Foam training frequency:	Annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Ground
Annual foam use:	AFFF: 3 to 5 gallons
Nearest surface water:	Silver Lake, less than 1/4 mile southwest
Nearest wetland:	Approximately 1/4 mile east
Nearest water well:	Less than 1/4 mile northeast
Nearest Wellhead Protection Area:	More than 1 mile
SITE RANKING:	11

SILVER LAKE CWI Well Map



Silver Lake *What's In My Neighborhood* Map



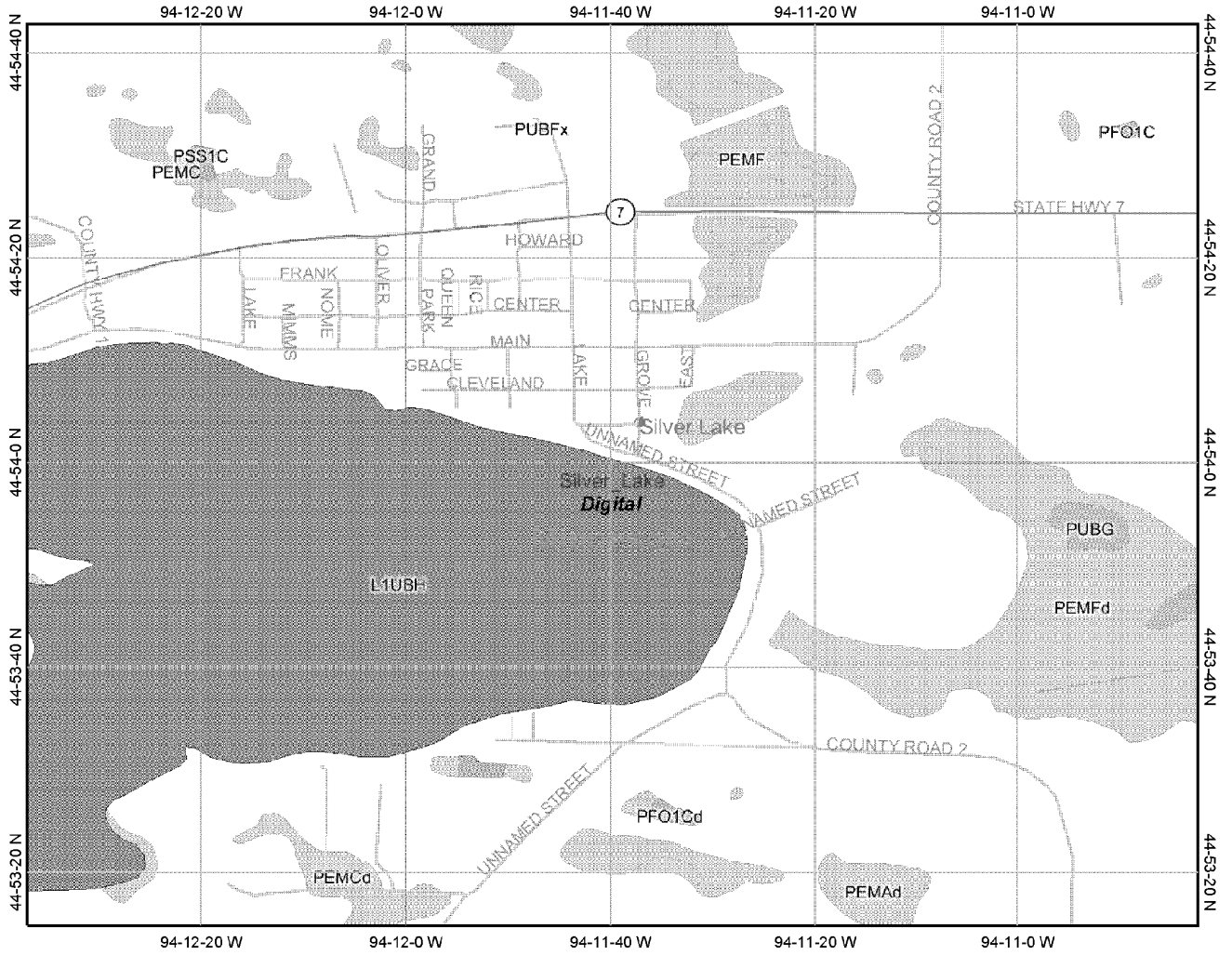
Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

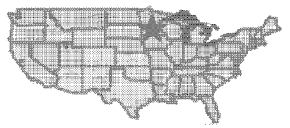
Minnesota Pollution Control Agency

Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

Silver Lake Wetland Map





Legend

Ohio_wet_scan
- 0
- 1
- Out of range

Interstate

Major Roads
- Other Road
- Interstate
- State highway
- US highway

Roads
- Cities
- USGS Quad Index 24K

Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan

NHD Streams

Counties 100K

States 100K
- South America
- North America

Scale: 1:19,055

Map center: 44° 53' 59" N, 94° 11' 40" W

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

2222.1618

STATE_02822575

Minnesota Unique Well No.
210176

County McLeod
Quad Silver Lake
Quad ID 107B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/11/1988
Update Date 01/09/2006
Received Date

Well Name STERNER INC.
Township Range Dir Section Subsections Elevation 1048 **ft.**
117 28 W 28 DDCCBB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
116 ft.	116 ft.	11/27/1974

Drilling Method --

Geological Material	Color	Hardness	From	To
TOP SOIL	BLACK		0	2
CLAY	YELLOW		2	16
CLAY	BLUE		16	34
SANDY CLAY	BLUE		34	38
CLAY	BLUE		38	84
SAND	BROWN		84	85
CLAY	BLUE		85	109
SAND	GRAY		109	116

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Commercial

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 112 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	12	4	112 ft. and 116 ft.

Static Water Level
45 ft. from Land surface Date Measured 11/27/1974

PUMPING LEVEL (below land surface)
90 ft. after hrs. pumping 4 g.p.m.

Well Head Completion
Pitless adapter manufacturer WHITEWATER Model SU4
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 405216 **Y:** 4973368

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 12/13/1974
Manufacturer's name BERKELEY Model number 4AM8
__ HP 0.33 Volts
Length of drop Pipe 84 ft. Capacity _g.p.m Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Fredericksons Inc. 43099 HITTESDORF, J
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock **ft.**

County Well Index Online Report **210176** Printed 6/28/2008 HE-01205-07

STATE_02822576

2222.1619

Minnesota Unique Well No.
210418

County McLeod
Quad Silver Lake
Quad ID 107B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/11/1988
Update Date 01/10/2006
Received Date

Well Name BARTON, HAROLD
Township Range Dir Section Subsections Elevation 1050 **ft.**

117	28	W	34	BBBDDC	**Elevation Method**	7.5 minute topographic map (+/- 5 feet)

Well Depth	**Depth Completed**	**Date Well Completed**
121 **ft.**	121 **ft.**	09/15/1961

Drilling Method --

Well Address
7 SH
SILVER LAKE MN 55381

Geological Material	Color	Hardness	From	To
DIRT	BLACK		0	3
CLAY	YELLOW		3	35
CLAY	BLUE		35	115
COARSE SAND			115	121

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 118 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between
4	18	3	118 ft. and 121 ft.

Static Water Level
22 ft. from Land surface Date Measured 09/15/1961

PUMPING LEVEL (below land surface)
32 ft. after 2 hrs. pumping 20 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
SAMPLE NO. 601508

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 405795 **Y:** 4973116

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed
Manufacturer's name Model number ___ HP 0.5 Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Jet Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Heil Well Co. 43085 HEIL, C.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock **ft.**

County Well Index Online Report | **210418** | Printed 6/28/2008 HE-01205-07

STATE_02822577

2222.1620

Minnesota Unique Well No.
409766

County McLeod
Quad Silver Lake
Quad ID 107B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 07/11/1991
Update Date 01/10/2006
Received Date

Well Name STIEBEL, LENARD
Township Range Dir Section Subsections Elevation 1065 **ft.**
117 28 W 34 CABACB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
160 **ft.**	160 **ft.**	09/12/1989

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below** -8 **ft.**

Casing Diameter	Weight	Hole Diameter
in. to 155 ft.	lbs./ft.	6 in. to 160 ft.

Well Address
19434 2 CR
SILVER LAKE MN 55381

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
5	15	5.5	155 ft. and 160 ft.

Geological Material	Color	Hardness	From	To
CLAY	BLACK	SOFT	0	6
CLAY	YELLOW	SOFT	6	12
CLAY	GRAY	MEDIUM	12	46
MUD & SAND	GRAY	SOFT	46	52
CLAY	GRAY	MEDIUM	52	130
CLAY & ROCK	GRAY	HARD	130	142
FINE SAND	VARIED	SOFT	142	147
CLAY , SAND	GRAY	MEDIUM	147	152
SAND	VARIED	HARD	152	160

Static Water Level
40 ft. from Land surface Date Measured 09/03/1989

PUMPING LEVEL (below land surface)
45 ft. after 2 hrs. pumping 34 g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Bentonite from to ft.
Grout Material: Cuttings from to ft.

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Address verification
Date 05/22/2003
System *UTM - Nad83, Zone15, Meters*
X: 406131 **Y:** 4972435

Nearest Known Source of Contamination
65 feet South West direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 09/03/1989
Manufacturer's name LOWEY-GOULDS Model number ___ HP 0.75 Volts 220
Length of drop Pipe 90 ft. Capacity 11 g.p.m
Type Submersible Material Plastic

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Mathews Well Co. 43238 MATHEWS,
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

STATE_02822578

2222.1621

County Well Index Online Report	409766	Printed 6/28/2008 HE-01205-07

Minnesota Unique Well No.
438898

County McLeod
Quad Silver Lake
Quad ID 107B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 07/18/1991
Update Date 01/11/2006
Received Date

Well Name ARDOLF, CHARLIE
Township Range Dir Section Subsections Elevation 1052 **ft.**
117 28 W 27 CCCBBA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
137 **ft.**	137 **ft.**	06/06/1988

Drilling Method Non-specified Rotary

Drilling Fluid Other

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below** -6 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 133 ft.	lbs./ft.	6.25 in. to 137 ft.

Well Address
RR 1
SILVER LAKE MN 55381

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	15	4	133 ft. and 137 ft.

Geological Material	Color	Hardness	From	To
CLAY	YELLOW		0	20
CLAY	BLUE		20	90
SAND			90	95
CLAY	BLUE		95	125
WATER SAND			125	137

Static Water Level
38 ft. from Land surface Date Measured 06/06/1988

PUMPING LEVEL (below land surface)
45 ft. after 3 hrs. pumping 40 g.p.m.

Well Head Completion
Pitless adapter manufacturer WHITEWATER Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
WELL DRILLED W/ WYO JELL PLUS.

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement	from 6 to 30 ft.	0.2 yrds.
Grout Material: Cuttings	from 30 to 105 ft.	0.7 yrds.

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Information from owner
Date 08/11/2005
System *UTM - Nad83, Zone15, Meters*
X: 405638 **Y:** 4973486

Nearest Known Source of Contamination
75 feet South West direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 06/08/1988
Manufacturer's name AERMOTOR Model number SD1250
HP 0.5 Volts 230
Length of drop Pipe 54 ft. Capacity 12 g.p.m
Type Submersible Material Galvanized

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

First Bedrock
Last Strat Sand
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

Well Contractor Certification
Mattson Well Co. 86108 OESTRIECH, D.
License Business Name Lic. Or Reg. No. Name of Driller

STATE_02822580

2222.1623

County Well Index Online Report	438898	Printed 6/28/2008 HE-01205-07

Minnesota Unique Well No.
453979

County McLeod
Quad Silver Lake
Quad ID 107B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 07/18/1991
Update Date 08/15/2007
Received Date

Well Name WRASPIR, HENRY MRS
Township Range Dir Section Subsections Elevation 1055 **ft.**
117 28 W 34 BDBDAD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
230 **ft.**	230 **ft.**	09/16/1988

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 2 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 226 ft.	1.9 lbs./ft.	7 in. to 230 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	13	4	226 ft. and 230 ft.

Well Address
19778 2 CR
SILVER LAKE MN 55381

Geological Material	Color	Hardness	From	To
SOIL	BLACK		0	2
CLAY	YELLOW	SOFT	2	16
CLAY	GRAY	SFT-HRD	16	106
DIRTY SAND	YELLOW	HARD	106	109
CLAY	YEL/GRY	SOFT	109	148
CLAY	GRAY	SFT-HRD	148	223
CLAY	GREEN	MEDIUM	223	225
SAND	GREEN	HARD	225	230

Static Water Level
39 ft. from Land surface Date Measured 09/16/1988

PUMPING LEVEL (below land surface)
60 ft. after 1 hrs. pumping 40 g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model SNAPPY
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Bentonite from 0 to 50 ft. 0.33 yrds.
Grout Material: Cuttings from to ft.

Located Minnesota Geological Survey **Method** Digitization (Screen) - Map (1:24,000)

Unique Number
Verification Information from neighbor **Date** 05/22/2003

System *UTM - Nad83, Zone15, Meters* **X:** 406178 **Y:** 4972743

Nearest Known Source of Contamination
50 feet N direction Old/other well type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 09/19/1988
Manufacturer's name MYERS Model number 5 10 BM
HP 0.5 Volts 230
Length of drop Pipe 60 ft. Capacity 10 g.p.m
Type Submersible Material Plastic

Abandoned Wells Does property have any not in use and not sealed well(s)?
☑ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Heil Well Co. 43085 HEIL, R.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-green
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report **453979** Printed 6/28/2008 HE-01205-07

STATE_02822582

2222.1625

Minnesota Unique Well No.
508971

County McLeod
Quad Silver Lake
Quad ID 107B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 09/28/1991
Update Date 01/10/2006
Received Date

Well Name WRASPIR, GLEN
Township Range Dir Section Subsections Elevation 1047 **ft.**
117 28 W 34 BDBABA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
118 **ft.**	118 **ft.**	06/26/1990

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 2 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 114 ft.	1.9 lbs./ft.	8 in. to 118 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	15	4	114 ft. and 118 ft.

Static Water Level
28.5 ft. from Land surface Date Measured 06/26/1990

PUMPING LEVEL (below land surface)
60 ft. after 1 hrs. pumping 35 g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model 8PL414C1
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
19788 2 CR
SILVER LAKE MN 55381

Geological Material	Color	Hardness	From	To
SOIL	BLACK		0	2
CLAY	YELLOW	SOFT	2	16
CLAY	GRAY	MEDIUM	16	86
SANDY CLAY	GRAY	SOFT	86	93
CLAY	GRAY	MEDIUM	93	113
SAND	YELLOW	SOFT	113	118

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement from 0 to 30 ft.
Grout Material: Bentonite from 30 to 85 ft.

Located Minnesota Geological Survey **Method** Digitization (Screen) - Map (1:24,000)

Unique Number Verification Information from owner **Date** 05/22/2003

System *UTM - Nad83, Zone15, Meters* **X:** 406160 **Y:** 4972860

Nearest Known Source of Contamination
50 feet W direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 07/24/1990
Manufacturer's name JACUZZI Model number 5S410-8
HP 0.5 Volts 230
Length of drop Pipe 50 ft. Capacity 10 g.p.m
Type Submersible Material Plastic

Abandoned Wells Does property have any not in use and not sealed well(s)?
☑ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Heil Well Co. 43085 HEIL, R.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-yellow
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report **508971** Printed 6/28/2008 HF-01205-07

STATE_02822583

2222.1626

Minnesota Unique Well No.
612286

County McLeod
Quad Silver Lake
Quad ID 107B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 01/24/2001
Update Date 01/10/2006
Received Date

Well Name JACOBS, STEVE

Township	Range	Dir	Section	Subsections	Elevation	
117	28	W	34	CABBBB	**Elevation Method**	1069 **ft.** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
168 **ft.**	168 **ft.**	08/30/1998

Drilling Method Non-specified Rotary

Drilling Fluid Water

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** Glued **Drive Shoe?** ☑ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 163 ft.	lbs./ft.	7.75 in. to 168 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	18	5	163 ft. and 168 ft.

Well Address
19434 2 CR
SILVER LAKE MN 55381

Geological Material	Color	Hardness	From	To
CLAY	TAN	MEDIUM	0	23
CLAY & SAND	GRAY	MEDIUM	23	157
ROCKS	GRAY	V.HARD	157	160
SAND	GRAY	MEDIUM	160	168

Static Water Level
38 ft. from Land surface Date Measured 08/30/1998

PUMPING LEVEL (below land surface)
ft. after 1 hrs. pumping 40 g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model 6PS45
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
UNSEALED WELL ON PROPERTY WILL BE SEALED

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: High solids bentonite from 0 to 90 ft. 8 bags

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number
Verification Address verification
Date 05/22/2003
System *UTM - Nad83, Zone15, Meters*
X: 406009 **Y:** 4972458

Nearest Known Source of Contamination
110 feet E direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name FLINT & WALLING Model number SBA10
HP 0.5 Volts 220
Length of drop Pipe 63 ft. Capacity 12 g.p.m
Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☑ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes
☑ No

Well Contractor Certification
Geib Well Co. 72027 GEIB, D
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **612286** | Printed 6/28/2008 HE-01205-07

Minnesota Unique Well No.
660931

County McLeod
Quad Silver Lake
Quad ID 107B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/12/2002
Update Date 01/11/2006
Received Date

Well Name NOWAK, DALE

Township	Range	Dir	Section	Subsections	Elevation
117	28	W	34	BADDAB	1042 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
129 ft.	123 ft.	09/26/2001

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** Glued **Drive Shoe?** ☐ Yes ☑ No **Above/Below** ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 119 ft.	lbs./ft.	6.25 in. to 129 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	20	4	119 ft. and 123 ft.

Well Address
563 MAIN ST E
SILVER LAKE MN 55381

Geological Material	Color	Hardness	From	To
TOP SOIL	BLACK		0	1
SANDY CLAY	BROWN		1	17
SANDY CLAY	GRAY		17	72
SANDY CLAY W/SAND LENSES	GRAY		72	93
SANDY CLAY/PEBBLES	GRAY		93	115
SAND	YEL/GRY		115	129

Static Water Level
24 ft. from Land surface Date Measured 09/26/2001

PUMPING LEVEL (below land surface)
26 ft. after hrs. pumping 100 g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model 6PS45B54C
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: High solids bentonite from 6 to 65 ft. 2 bags

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Address verification
Date 08/11/2005
System *UTM - Nad83, Zone15, Meters*
X: 406360 **Y:** 4972952

Nearest Known Source of Contamination
150 feet South West direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 09/26/2001
Manufacturer's name AERMOTOR Model number S20-75
HP 0.75 Volts 230
Length of drop Pipe 63 ft. Capacity 20 g.p.m
Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

First Bedrock
Last Strat Sand
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

Well Contractor Certification
L.t.p. Enterprises, Inc. 91686 GRIMM, G.
License Business Name Lic. Or Reg. No. Name of Driller

STATE_02822585

2222.1628

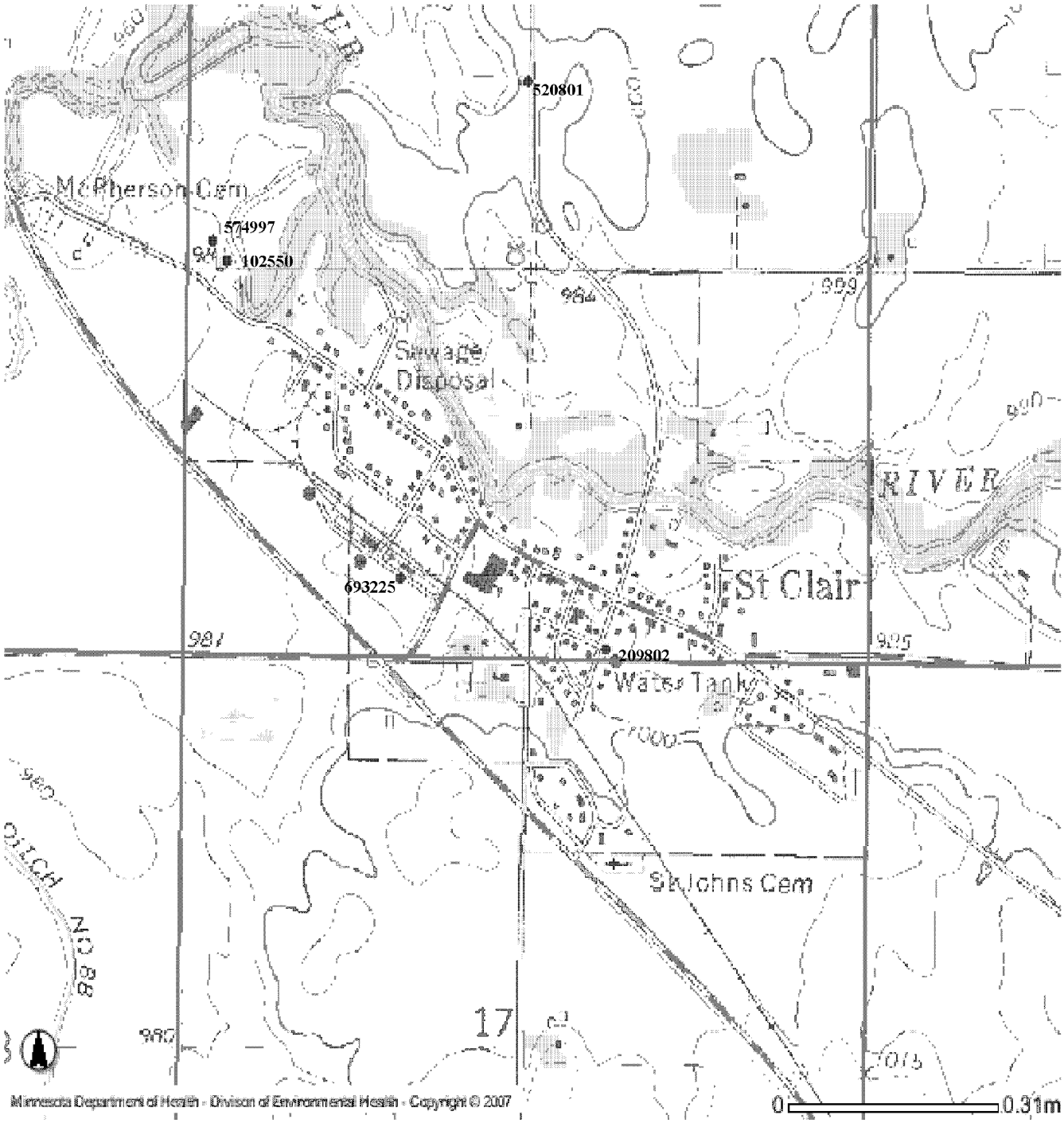
County Well Index Online Report	660931	Printed 6/28/2008 HE-01205-07

SITE SUMMARY

Site Name:	St. Clair
Fire Department:	St. Clair Fire Department PO Box 185 St. Clair, MN 56080
Site Contact:	Not provided, page two of questionnaire not completed

Training Location:	City of St. Clair
Type of foam used in training:	Not specified, use of 3M foam in training assumed
Foam training frequency:	Semi-Annually
Foam use per training event:	5 to 10 gallons
Spent foam destination:	Storm Sewer
Annual foam use:	Not specified
Nearest surface water:	LeSueur River located along northeast side of town
Nearest wetland:	1/4 to 1/3 mile outside of town
Karst Area:	Training site is located in a covered karst area
Nearest water well:	In town
Nearest Wellhead Protection Area:	More than 1 mile
SITE RANKING:	**23**

ST CLAIR CWI Well Map



St Clair *What's In My Neighborhood* Map



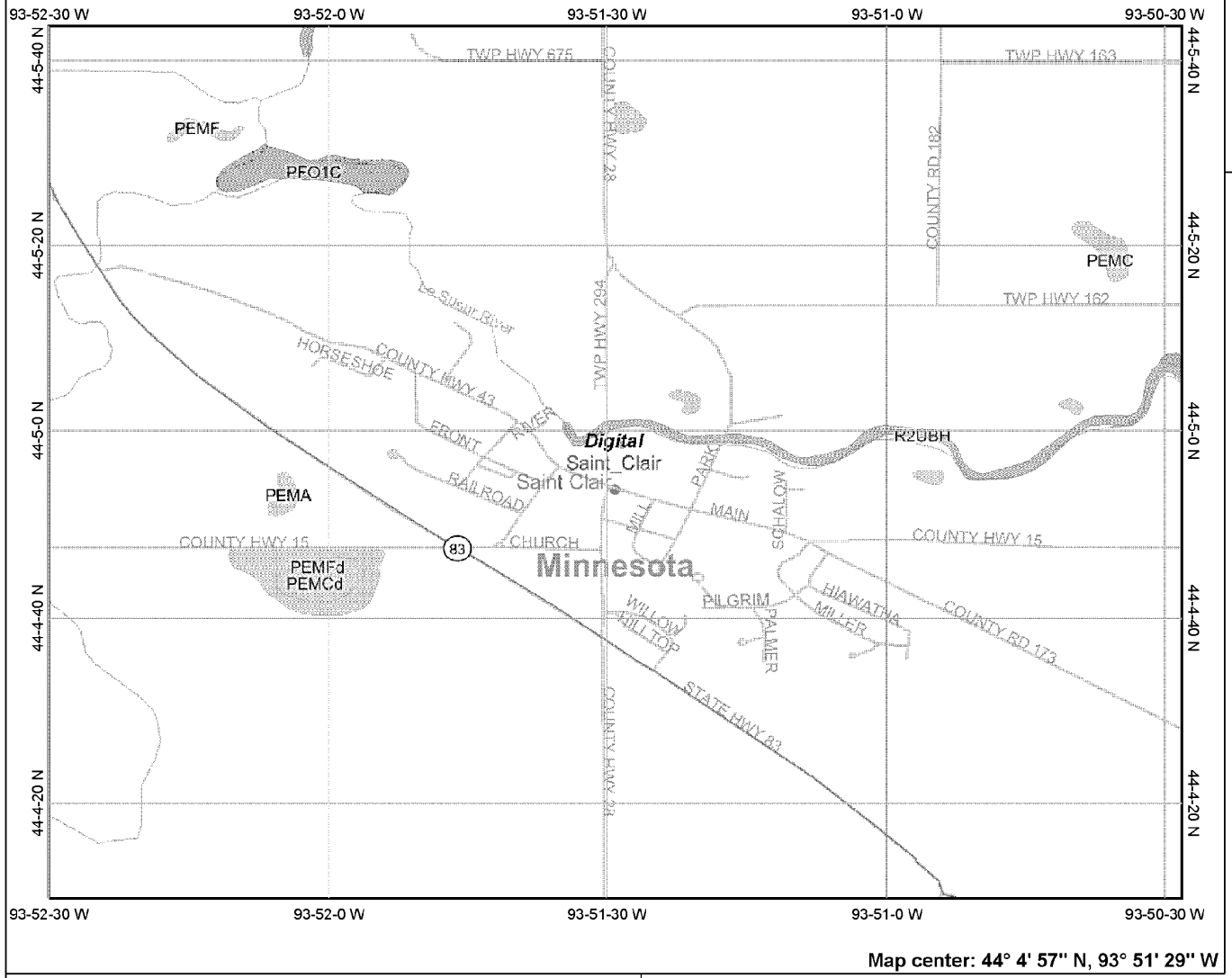
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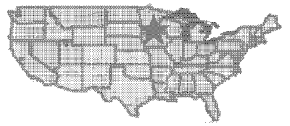
Minnesota Pollution Control Agency

Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

St Clair Wetland Map





Legend

Ohio_wet_scan
- 0
- 1
- Out of range

Interstate

Major Roads
- Other Road
- Interstate
- State highway
- US highway

Roads

Cities

USGS Quad Index 24K

Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan

NHD Streams

Counties 100K

States 100K

South America

North America

Scale: 1:20,276

Map center: 44° 4' 57" N, 93° 51' 29" W

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

2222.1633

STATE_02822590

Minnesota Unique Well No.
102550

County Blue Earth
Quad St Clair
Quad ID 55D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 06/17/1997
Update Date 06/28/1997
Received Date

Well Name EBERT, MRS. E.
Township Range Dir Section Subsections Elevation 981 **ft.**
107 25 W 8 BCCCDD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
160 **ft.**	160 **ft.**	05/07/1980

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 1 **ft.**

Casing Diameter	Weight	Hole Diameter
5 in. to 155 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type**

Diameter	Slot/Gauze	Length	Set Between
0	12	2	155 ft. and 160 ft.

Geological Material	Color	Hardness	From	To
SOIL	BLACK	SOFT	0	6
CLAY	YELLOW	SOFT	6	20
CLAY	BLUE	SOFT	20	70
SANDY CLAY	GRAY	SOFT	70	120
SAND	GRAY	HARD	120	160

Static Water Level
50 ft. from Land surface Date Measured 05/06/1980

PUMPING LEVEL (below land surface)
65 ft. after hrs. pumping 25 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Information from neighbor
Date N/A

System *UTM - Nad83, Zone15, Meters*
X: 430569 **Y:** 4881935

Nearest Known Source of Contamination
70 feet E direction Septic tank/drain field type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 05/09/1980
Manufacturer's name GOULDS Model number 10EJ HP 0.5 Volts 230
Length of drop Pipe 72 ft. Capacity 10 g.p.m
Type Submersible Material Galvanized

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Denn Well Co. 07120 DENN, L.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock **ft.**

County Well Index Online Report | **102550** | Printed 6/28/2008 HE-01205-07

STATE_02822591

Minnesota Unique Well No.
209802

County Blue Earth
Quad St Clair
Quad ID 55D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 06/17/1997
Update Date 02/16/2007
Received Date

Well Name ST. CLAIR OLD 1
Township Range Dir Section Subsections Elevation 985 **ft.**
107 25 W 8 DCCDDD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
320 **ft.**	320 **ft.**	00/00/1913

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Abandoned **Status** Unknown

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
8 in. to 243 ft.	lbs./ft.	

Open Hole from 243 ft. to 320 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
ST CLAIR MN 56080

Geological Material	Color	Hardness	From	To
DRIFT			0	243
LIMESTONE			243	320

Static Water Level
25 ft. from Land surface Date Measured 1913

PUMPING LEVEL (below land surface)
43 ft. after hrs. pumping 100 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
WELL LOCATED INSIDE FILTER PLANT BLDG. "SEALED" PRIOR TO WELL CODE.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Department of Health
Method Digitization (Screen) - Map (1:12,000)
Unique Number Verification Information from owner
Date 02/15/2007
System *UTM - Nad83, Zone15, Meters*
X: 431454 **Y:** 4881142

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 00/00/1913
Manufacturer's name Model number ___ HP 15 Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Turbine Material

2222.1635

STATE_02822592

	Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No
	Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No
First Bedrock Prairie Du Chien Group **Aquifer** Prairie Du Chien Group **Last Strat** Prairie Du Chien Group **Depth to Bedrock** 243 **ft.**	**Well Contractor Certification** United States Geological Survey USGS License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report	**209802**	Printed 6/28/2008 HE-01205-07

2222.1636

STATE_02822593

Minnesota Unique Well No.
520801

County Blue Earth
Quad St Clair
Quad ID 55D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 06/17/1997
Update Date 07/22/1997
Received Date

Well Name DIETEMAN, LAFELLE
Township Range Dir Section Subsections Elevation 1002 ft.
107 25 W 8 BDAAAA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
200 ft.	200 ft.	08/05/1993

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 0 ft.

Casing Diameter	Weight	Hole Diameter
5 in. to 194 ft.	lbs./ft.	8 in. to 194 ft.
		5 in. to 200 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4.5	25	5.3	194 ft. and 200 ft.

Well Address
ST CLAIR MN 56080

Geological Material	Color	Hardness	From	To
DRIFT			0	150
SAND			150	157
CLAY	BLUE		157	194
ROCK & SAND LIME			194	200

Static Water Level
47 ft. from Land surface Date Measured 08/05/1993

PUMPING LEVEL (below land surface)
47 ft. after hrs. pumping 65 g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITER Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: from 0 to 36 ft. 4 bags

Located Minnesota Geological Survey **Method** Digitization (Screen) - Map (1:24,000)
Unique Number Verification Information from owner **Date** 06/25/2004
System *UTM - Nad83, Zone15, Meters* **X:** 431272 **Y:** 4882302

Nearest Known Source of Contamination
65 feet W direction Septic tank/drain field type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 08/05/1993
Manufacturer's name GOULDS Model number ___ HP 0.5 Volts 230
Length of drop Pipe 80 ft. Capacity 203 g.p.m Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Baer Well Co. 07251 BAER, J.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Prairie Du Chien Group **Aquifer** Prairie Du Chien Group
Last Strat Prairie Du Chien Group **Depth to Bedrock** 194 ft.

County Well Index Online Report **520801** Printed 6/28/2008 HE-01205-07

Minnesota Unique Well No.
574997

County Blue Earth
Quad St Clair
Quad ID 55D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 06/17/1997
Update Date 06/28/1997
Received Date

Well Name LINDE, DAN
Township Range Dir Section Subsections Elevation 981 ft.
107 25 W 8 BCCCBD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
180 ft.	180 ft.	06/24/1996

Drilling Method Non-specified Rotary

Drilling Fluid Other

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 0 ft.

Casing Diameter	Weight	Hole Diameter
5 in. to 161 ft.	lbs./ft.	9 in. to 161 ft.

Open Hole from 161 ft. to 180 ft.

Screen NO **Make** **Type**

Diameter **Slot/Gauze** **Length** **Set Between**

Geological Material	Color	Hardness	From	To
SOIL	BLACK	SOFT	0	2
CLAY	YELLOW	SOFT	2	22
CLAY	BLUE	SOFT	22	100
SANDY CLAY		SOFT	100	120
GRAVEL		SOFT	120	157
LIMESTONE	BROWN	HARD	157	180

Static Water Level
30 ft. from Land surface Date Measured 06/24/1996

PUMPING LEVEL (below land surface)
0 ft. after hrs. pumping 80 g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Bentonite from 0 to 60 ft. 6 bags

Located Minnesota Geological Survey **Method** Digitization (Screen) - Map (1:24,000)
Unique Number Verification Tag on well **Date** 06/25/2004
System *UTM - Nad83, Zone15, Meters* X: 430537 Y: 4881976

Nearest Known Source of Contamination
70 feet South West direction Septic tank/drain field type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 08/21/1996
Manufacturer's name AEROMOTOR Model number A12B50 HP 0.5 Volts 230
Length of drop Pipe 60 ft. Capacity 12 g.p.m Type Submersible Material Plastic

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

First Bedrock Prairie Du Chien Group **Aquifer** Prairie Du Chien Group
Last Strat Prairie Du Chien Group **Depth to Bedrock** 157 ft.

Well Contractor Certification
Searles Well Co. 08258 VOLK, J.
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report | **574997** | Printed 6/28/2008 HE-01205-07

Minnesota Unique Well No.
693225

County Blue Earth
Quad St Clair
Quad ID 55D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 08/03/2004
Update Date 01/16/2006
Received Date 01/03/2005

Well Name ST. CLAIR ATHELTIC FIELD
Township Range Dir Section Subsections Elevation 978 **ft.**
107 25 W 8 CDCABC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
235 **ft.**	235 **ft.**	07/28/2004

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Irrigation

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☑ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
9 in. to 197 ft.	lbs./ft.	12 in. to 195 ft.
		8 in. to 208 ft.

Open Hole from 197 ft. to 235 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
23 ft. from Land surface Date Measured 07/28/2004

PUMPING LEVEL (below land surface)
60 ft. after hrs. pumping 600 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
P.O. BOS 99
ST CLAIR MN 56080

Geological Material	Color	Hardness	From	To
SOIL STICKY	BLACK	SOFT	0	5
SANDY CLAY	YELLOW	SOFT	5	12
FINE SAND	GRAY	SOFT	12	16
SANDY CLAY	BLUE	SOFT	16	75
SAND & CLAY	GRY/TAN	SOFT	75	112
FIRM CLAY	GRAY		112	117
SANDY CLAY/MED	BLUE	SOFT	117	127
SANDY CLAY	GRAY	SOFT	127	161
SANDY CLAY	GRAY	SOFT	161	188
LIMEROCK/SHALE	GRY/GRN	M.HARD	188	192
LIMESTONE	TAN/WHT	HARD	192	197
LIMESTONE/SANDSTONE FIRM	TAN/GRY		197	204
LIMESTONE	TAN/PNK	HARD	204	213
LIMESTONE	TAN/WHT	MEDIUM	213	223
LIMESTONE	RED/TAN	HARD	223	230
LIMESTONE & SANDSTONE FIRM		HARD	230	235

REMARKS
GAMMA LOGGED 7-28-2004. LOGGED FOR COUNTY STUDY.

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: High solids bentonite from to 40 ft. 5 bags

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Information from owner
Date 08/03/2004
System *UTM - Nad83, Zone15, Meters*
X: 430975 **Y:** 4881287

Nearest Known Source of Contamination
50 feet S direction Sewer type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed 08/26/2004
Manufacturer's name GRUNDFOS Model number 85-S-100-9-6
HP 10 Volts 230
Length of drop Pipe 84 ft. Capacity g.p.m Type Submersible Material Galvanized

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Borehole Geophysics Yes
First Bedrock Prairie Du Chien Group
Last Strat Prairie Du Chien Group
Aquifer Prairie Du Chien Group
Depth to Bedrock 192 **ft.**

Well Contractor Certification
Searles Well Co. 08258 KUCK, T.
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report | **693225** | Printed 6/28/2008 HE-01205-07

STATE_02822596

2222.1639

SITE SUMMARY

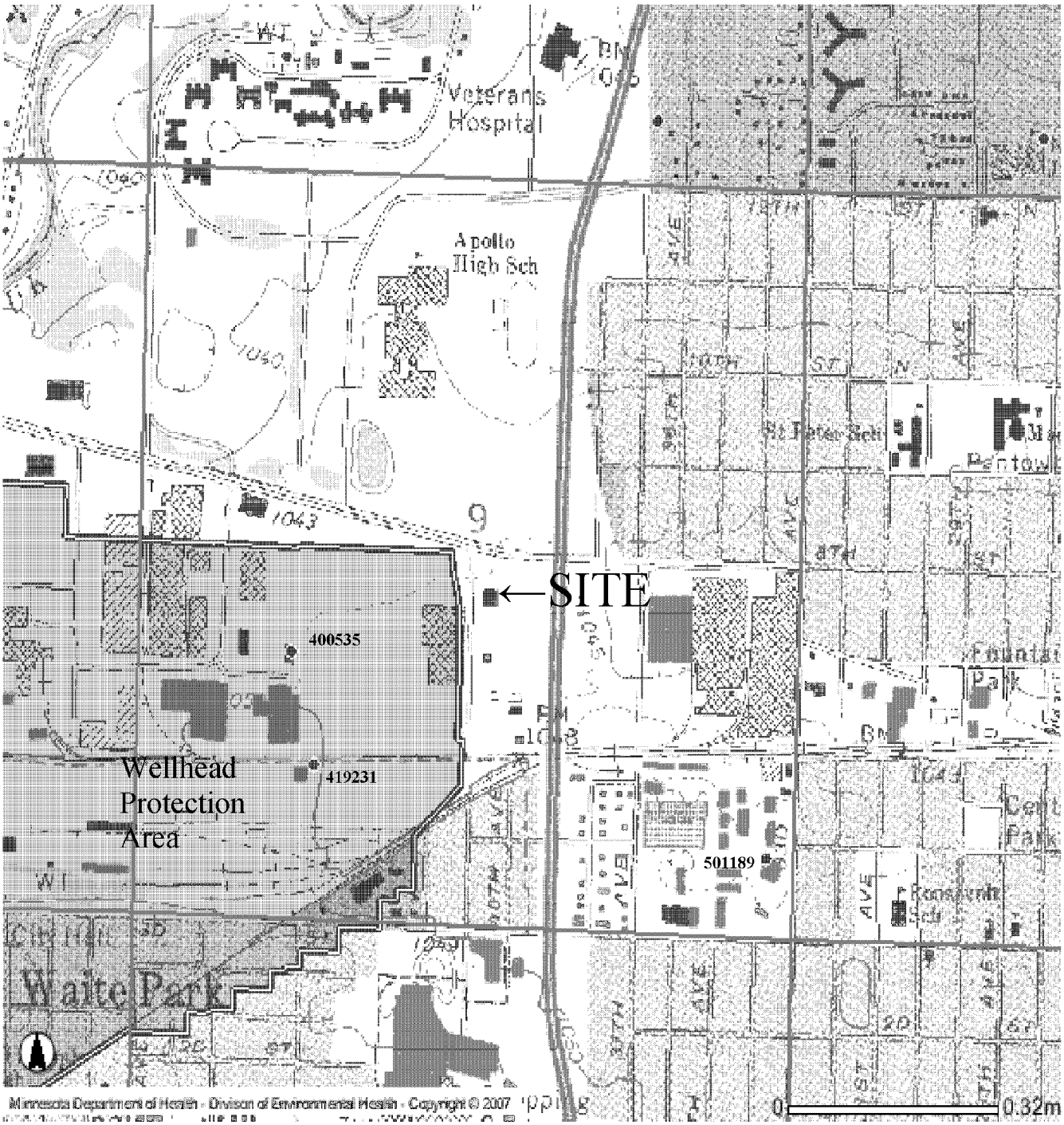
Site Name: St. Cloud

Fire Department: St. Cloud Fire Department
101 10th Avenue N.
St. Cloud, MN 56303

Site Contact: Dan Wrobbel, Deputy Fire Chief
320-650-3528
dean.wrobbel@ci.st-cloud.mn.us

Training Location:	Open field near Station 2, 700 41st Avenue N.;and, Station 4, 1550 45th Avenue SE (airport station), St. Cloud
Type of foam used in training:	AR-AFFF: Chemguard Training Foam: Chemguard
Foam training frequency:	Annually
Foam use per training event:	AR-AFFF: 20 gallons Training Foam: 40 gallons
Spent foam destination:	Ground
Annual foam use:	AR-AFFF: 20 gallons Training Foam: 40 gallons
Nearest surface water:	Elk River located along south side of airport/45th Avenue training site; unnamed pond less than 1/4 mile northwest of 41st Avenue training site.
Nearest wetland:	On and adjacent to airport/45th Avenue site; 1/2 to 1 mile south of 41st Avenue site.
Nearest water well:	Approximately 1/4 mile from airport/45th Avenue site; 1/4 to 1/3 mile southwest of 41st Avenue site.
Nearest Wellhead Protection Area:	More than 1 mile from airport/45th Avenue site; 41st Avenue site is located in or adjacent to Wellhead Protection Area.
SITE RANKING:	**18**

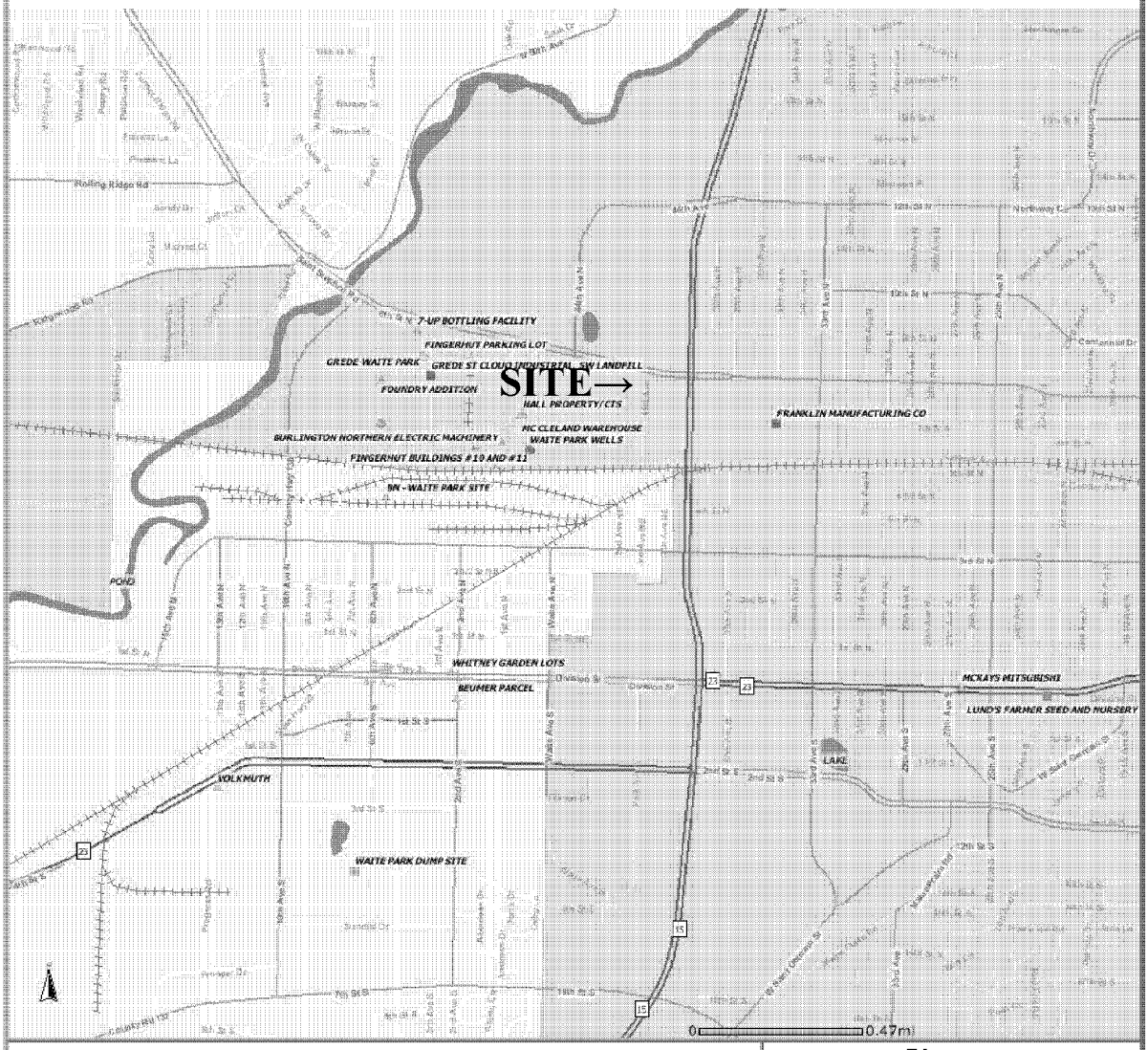
ST CLOUD 41st AVE CWI Well Map



STATE_02822598

2222.1641

St. Cloud 41st Avenue *What's In My Neighborhood*



Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

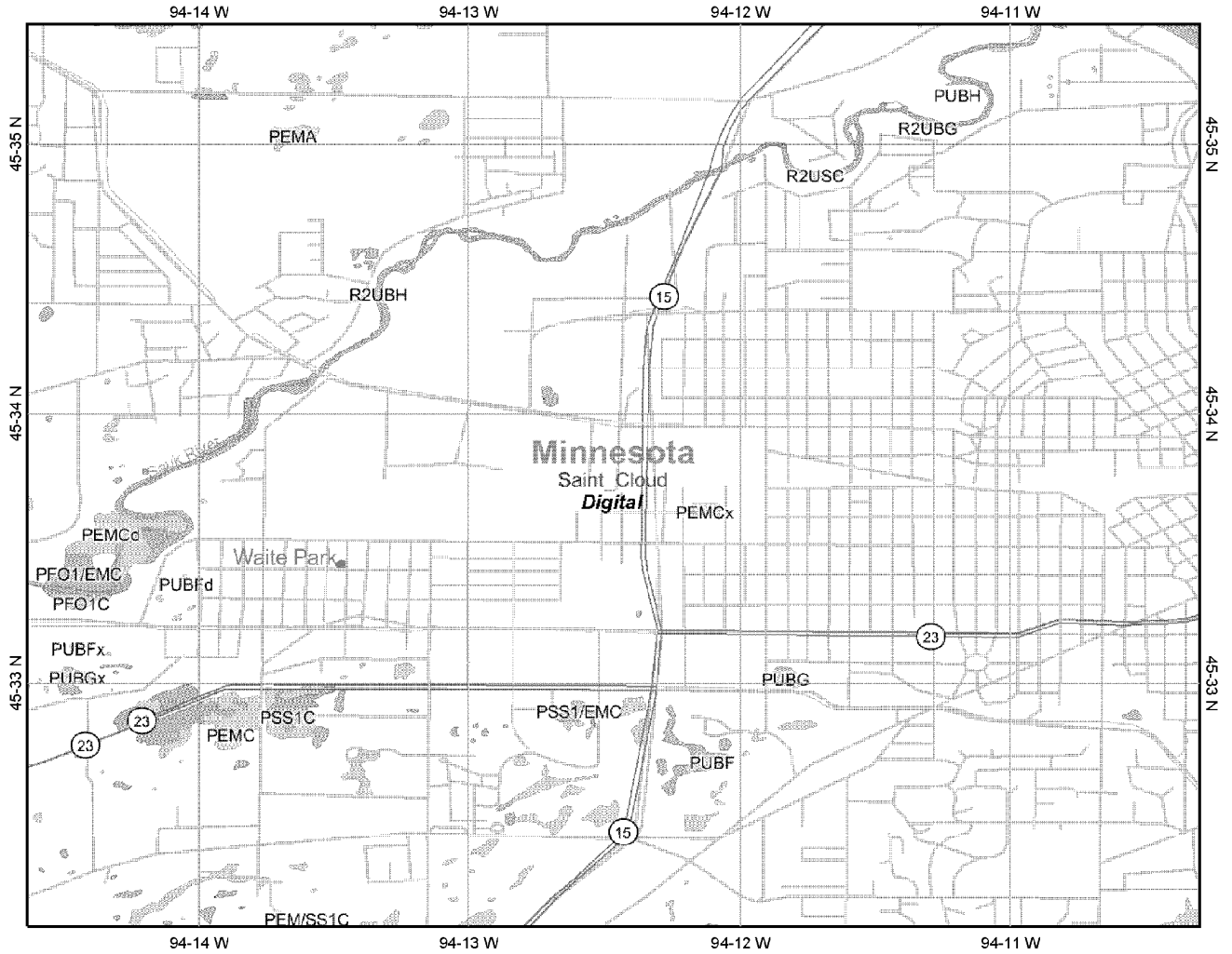
Minnesota Pollution Control Agency

Sites

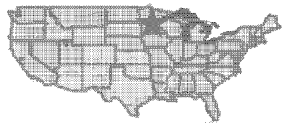
- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

STATE_02822599

St Cloud 41st Av Wetland Map



Map center: 45° 33' 46" N, 94° 12' 28" W



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:43,306

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2222.1643

STATE_02822600

Minnesota Unique Well No.
400535

County Stearns
Quad St Cloud
Quad ID 156C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/17/1988
Update Date 07/14/1993
Received Date

Well Name SCHMIDT LABS INC
Township Range Dir Section Subsections Elevation 1044 **ft.**
124 28 W 9 CBDAAC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
55 ft.	55 ft.	06/13/1986

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Industrial

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 1 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 51 ft.	lbs./ft.	4 in. to 55 ft.

Well Address
4605 RUSAN ST
MN

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	18	4	51 ft. and 55 ft.

Geological Material	Color	Hardness	From	To
SAND	BROWN	HARD	0	21
HARDPAN	GRAY	HARD	21	51
SAND, GRAVEL & WATER			51	55

Static Water Level
8 ft. from Land surface Date Measured 06/13/1986

PUMPING LEVEL (below land surface)
20 ft. after hrs. pumping 25 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
ACROSS FROM VA HOSPITAL--INDUSTRIAL PARK OFF CTY 4
INSIDE BUILDING.

Grouting Information Well Grouted? ☐ Yes ☑ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Information from owner
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 405255 **Y:** 5046324

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 06/17/1986
Manufacturer's name JACUZZI Model number B5S4108-S2
__ HP 0.5 Volts 230
Length of drop Pipe 20 ft. Capacity 10 g.p.m
Type Submersible Material Fiberglass

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Donabauer Well Co. 73061 DONABAUER, Q.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand & larger
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report **400535** Printed 6/28/2008 HE-01205-07

STATE_02822601

2222.1644

Minnesota Unique Well No.
419231

County Stearns
Quad St Cloud
Quad ID 156C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 09/08/1992
Update Date 05/06/2005
Received Date

Well Name OLD WAITE PARK WELL 4
Township Range Dir Section Subsections Elevation 1051 **ft.**
124 28 W 9 CDBBCA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
45 ft.	44 ft.	10/30/1986

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 2 **ft.**

Casing Diameter	Weight	Hole Diameter
12 in. to 32 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
12	120	12	32 ft. and 44 ft.

Static Water Level
15 ft. from Land surface Date Measured 10/30/1986

PUMPING LEVEL (below land surface)
29.8 ft. after 12 hrs. pumping 246 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
WAITE PARK MN 56387

Geological Material	Color	Hardness	From	To
DIRT & ROCKS	BLACK	SOFT	0	1
SANDY CLAY	YELLOW	SOFT	1	5
CLAY	GRY/YEL	MED-HRD	5	8
SAND-FINE	YELLOW	SFT-MED	8	16
SAND-FINE	BLUE	SFT-MED	16	21
SAND-COARSE	BLUE	MEDIUM	21	29
GRAVEL-COARSE		MEDIUM	29	39
SANDY CLAY	GRAY		39	42
REGOLITH & BROKEN ROCK			42	45

REMARKS
WELL SEALED 02-05-1990 BY 27010

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Neat Cement from 0 to 26 ft.

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Information from owner
Date N/A

System *UTM - Nad83, Zone15, Meters*
X: 405310 **Y:** 5046081

Nearest Known Source of Contamination
20 feet North East direction Other type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Ervin Well Co. 65252 ERVIN, D.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Cretaceous Regolith
Last Strat Cretaceous Regolith
Aquifer Quat. Water Table Aquifer
Depth to Bedrock 42 **ft.**

County Well Index Online Report | **419231** | Printed 6/28/2008 HE-01205-07

Minnesota Unique Well No.
501189

County Stearns
Quad St Cloud
Quad ID 156C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 06/24/1991
Update Date 07/14/1993
Received Date

Well Name OCTAGON BUILDING
Township Range Dir Section Subsections Elevation 1044 **ft.**
124 28 W 9 DDDABD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
69 **ft.**	69 **ft.**	07/07/1989

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Irrigation

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 65 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOIINSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	20	4	65 ft. and 69 ft.

Well Address
325 33RD AV N
ST CLOUD MN

Geological Material	Color	Hardness	From	To
SAND	BROWN	MED-HRD	0	45
CLAY	GRAY	HARD	45	61
SAND	BROWN	SOFT	61	69

Static Water Level
18 ft. from Land surface Date Measured 07/07/1989

PUMPING LEVEL (below land surface)
0 ft. after hrs. pumping 50 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☑ No
Grout Material: Cuttings from 0 to ft. 0

Located Minnesota Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number
Verification Address verification **Date** N/A

System *UTM - Nad83, Zone15, Meters* **X:** 406418 **Y:** 5045879

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 07/13/1989
Manufacturer's name A.Y. MCDONALD Model number 21075P3
__ HP 0.75 Volts 230
Length of drop Pipe 42 ft. Capacity 16 g.p.m
Type Submersible Material Galvanized

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

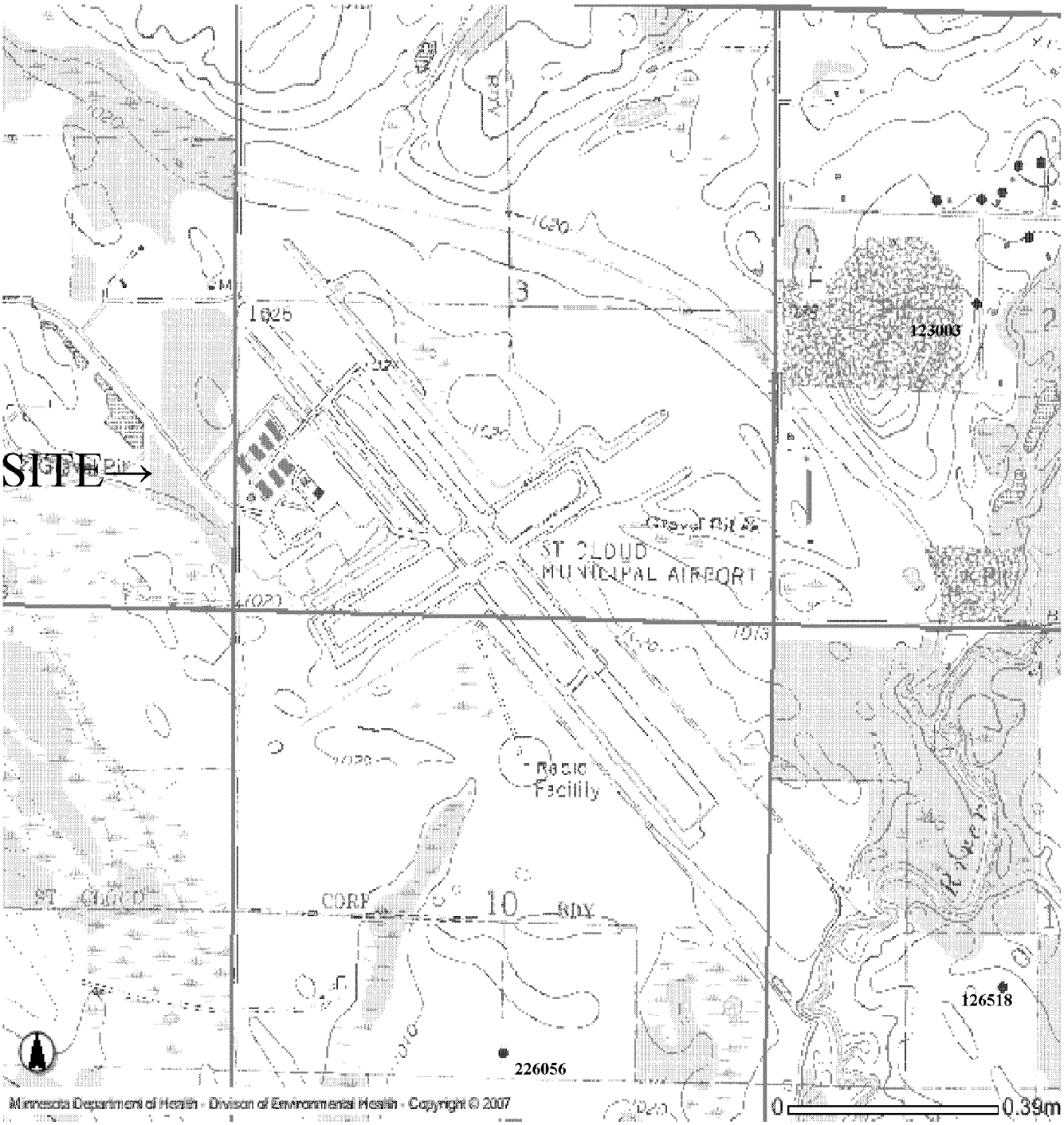
Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

First Bedrock
Last Strat Sand-brown **Aquifer** Quat. Buried Artes. Aquifer **Depth to Bedrock** **ft.**

Well Contractor Certification
G & M Drilling 73542 MAJERUS, S.
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report **501189** Printed 6/28/2008 HE-01205-07

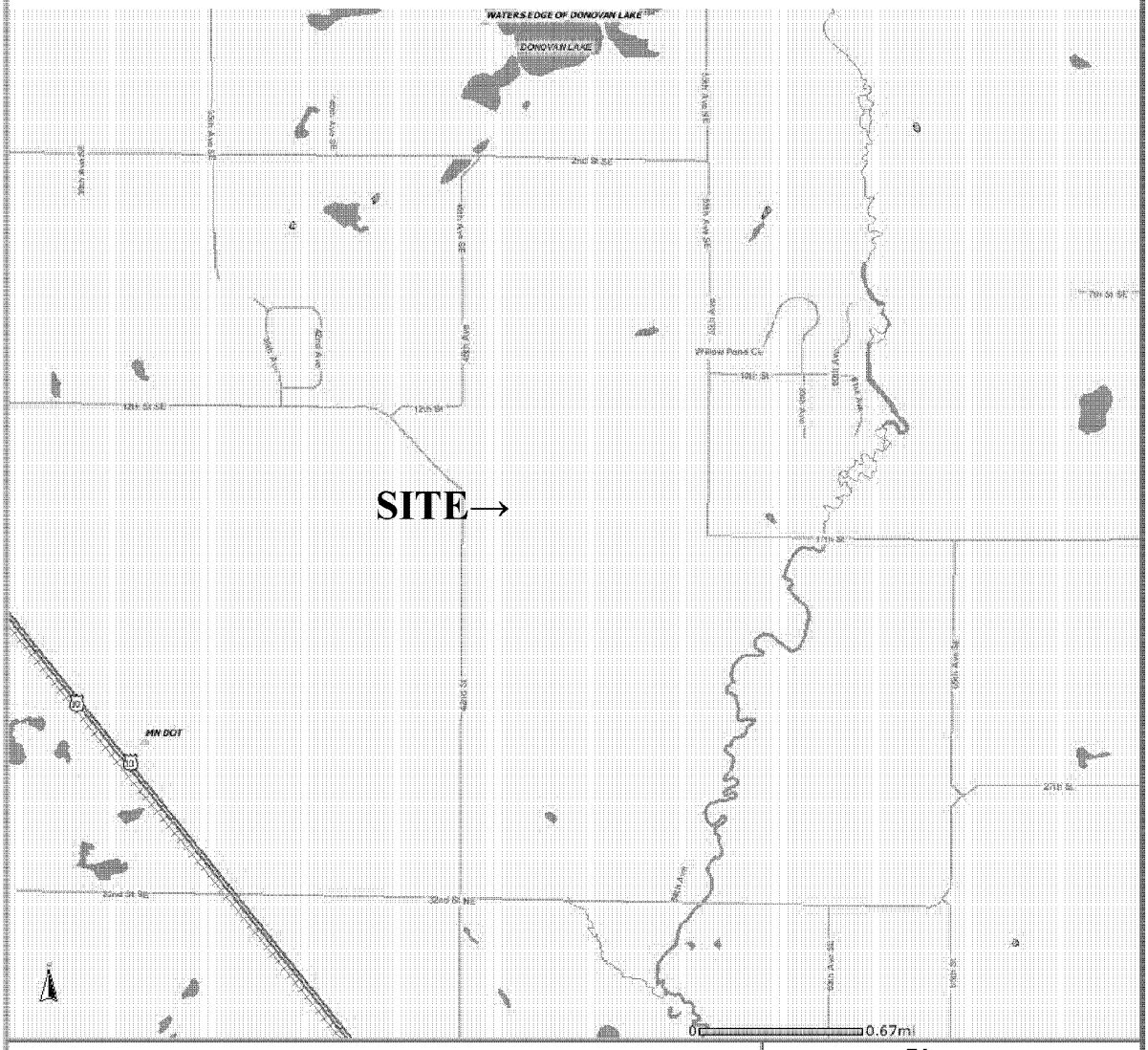
ST CLOUD 45th AVE CWI Well Map



STATE_02822604

2222.1647

St. Cloud 45th Avenue *What's In My Neighborhood*



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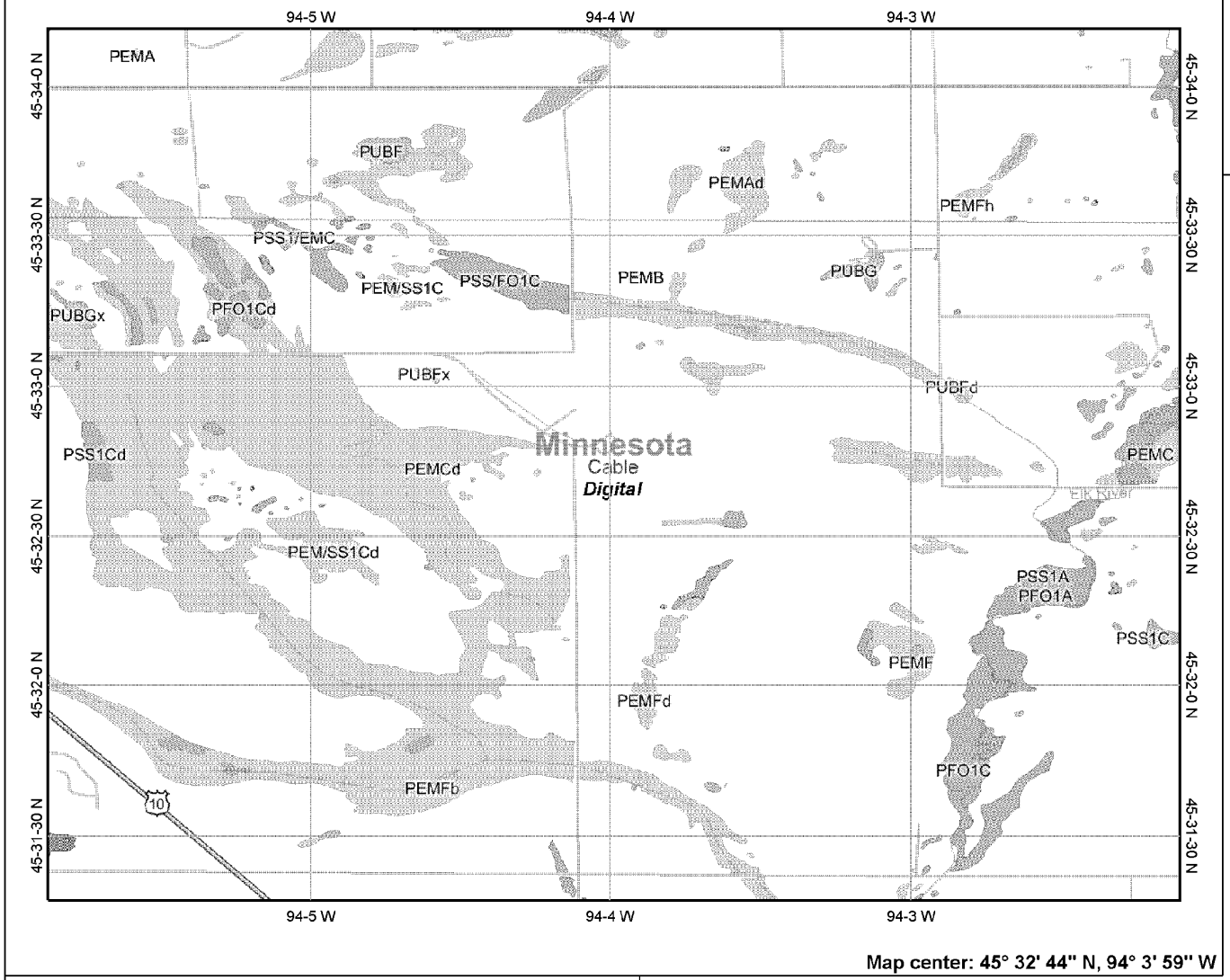
Minnesota Pollution Control Agency

Sites

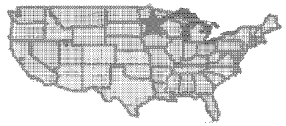
- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

STATE_02822605

St Cloud 45th Av Wetland Map



Map center: 45° 32' 44" N, 94° 3' 59" W



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:37,737

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2222.1649

STATE_02822606

Minnesota Unique Well No.
123003

County Sherburne
Quad Cable
Quad ID 156D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/17/1988
Update Date 04/08/2008
Received Date

Well Name GAINIE, RON
Township Range Dir Section Subsections Elevation 1039 **ft.**
35 30 W 2 BDCDDA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
52 ft.	52 ft.	02/14/1975

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 1.25 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 48 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
3	20	4.7	48 ft. and 52 ft.

Geological Material	Color	Hardness	From	To
SANDY CLAY	BROWN	SOFT	0	25
GRAVEL	BROWN	SOFT	25	48
SAND 20 SLOT	BROWN	SOFT	48	52

Static Water Level
18 ft. from Land surface Date Measured 02/14/1975

PUMPING LEVEL (below land surface)
18 ft. after 1 hrs. pumping 20 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☑ No

Located Minnesota Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Name on mailbox **Date** N/A

System *UTM - Nad83, Zone15, Meters* **X:** 418794 **Y:** 5044810

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☑ Not Installed Date Installed 03/31/1975
Manufacturer's name DEMPSTER Model number DMS052 HP 0.5 Volts 230
Length of drop Pipe 23 ft. Capacity 11 g.p.m
Type Submersible Material Galvanized

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Traut Well 73157 STOTKO, J.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-brown
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **123003** | Printed 6/28/2008 HE-01205-07

Minnesota Unique Well No.
126518

County Sherburne
Quad Cable
Quad ID 156D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/17/1988
Update Date 04/08/2008
Received Date

Well Name PROM, LORN (PROM DAIRY)
Township Range Dir Section Subsections Elevation 1013 **ft.**
35 30 W 11 CAADBC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
111 ft.	111 ft.	06/21/1977

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Irrigation

Casing Type **Joint** Welded **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 1 **ft.**

Casing Diameter	Weight	Hole Diameter
12 in. to 82 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
0	40	30	82 ft. and 111 ft.

Geological Material	Color	Hardness	From	To
SAND, ROCK			0	30
SAND, GRAVEL			30	60
HARDPAN			60	80
WATER VEIN			80	111

Static Water Level
16 ft. from Land surface Date Measured 06/21/1977

PUMPING LEVEL (below land surface)
80 ft. after 1 hrs. pumping 850 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☑ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Information from owner
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 418872 **Y:** 5043014

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed
Manufacturer's name WESTERN LAND ROLLER Model number __ HP 0 Volts
Length of drop Pipe 80 ft. Capacity _g.p.m
Type Turbine Material Steel (black or low carbon)

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDII for this well? ☐ Yes ☐ No

Well Contractor Certification
Mc Alpine Brothers 86270 MCALPINE, L.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

STATE_02822608

2222.1651

County Well Index Online Report	126518	Printed 6/28/2008 HE-01205-07

Minnesota Unique Well No.
226056

County Sherburne
Quad Cable
Quad ID 156D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 12/01/1990
Update Date 04/08/2008
Received Date

Well Name HIBBARD, KEITH 1
Township Range Dir Section Subsections Elevation 1015 **ft.**
35 30 W 10 DBCCCB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
85 ft.	85 ft.	11/15/1979

Drilling Method Cable Tool

Geological Material	Color	Hardness	From	To
BROWN SAND	BROWN	SOFT	0	3
ROCKS	DK. BRN	HARD	3	20
HARDPAN	BLACK	HARD	20	65
WATER VEIN	GRAY	SOFT	65	85

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Irrigation

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
12 in. to 60 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
12		20	60 ft. and 80 ft.

Static Water Level
25 ft. from Land surface Date Measured 11/15/1979

PUMPING LEVEL (below land surface)
ft. after hrs. pumping 300 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
NOT USING THIS WELL.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Information from owner
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 417374 **Y:** 5042841

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Mc Alpine Brothers 86270
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report

226056

Printed 6/28/2008
HE-01205-07

SITE SUMMARY

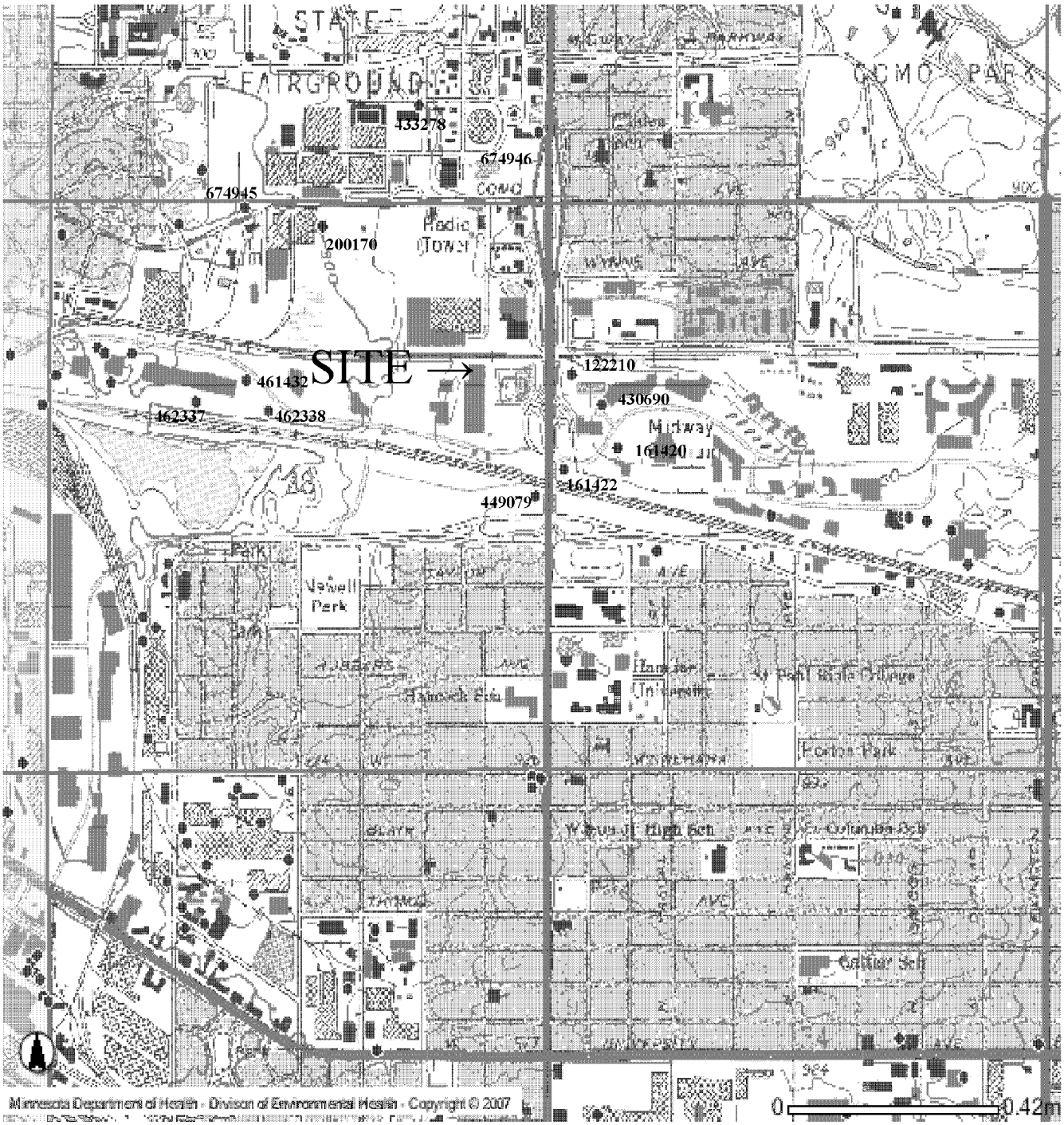
Site Name: St. Paul

Fire Department: St. Paul Fire Department
100 E. 11th Street
St. Paul, MN 55101

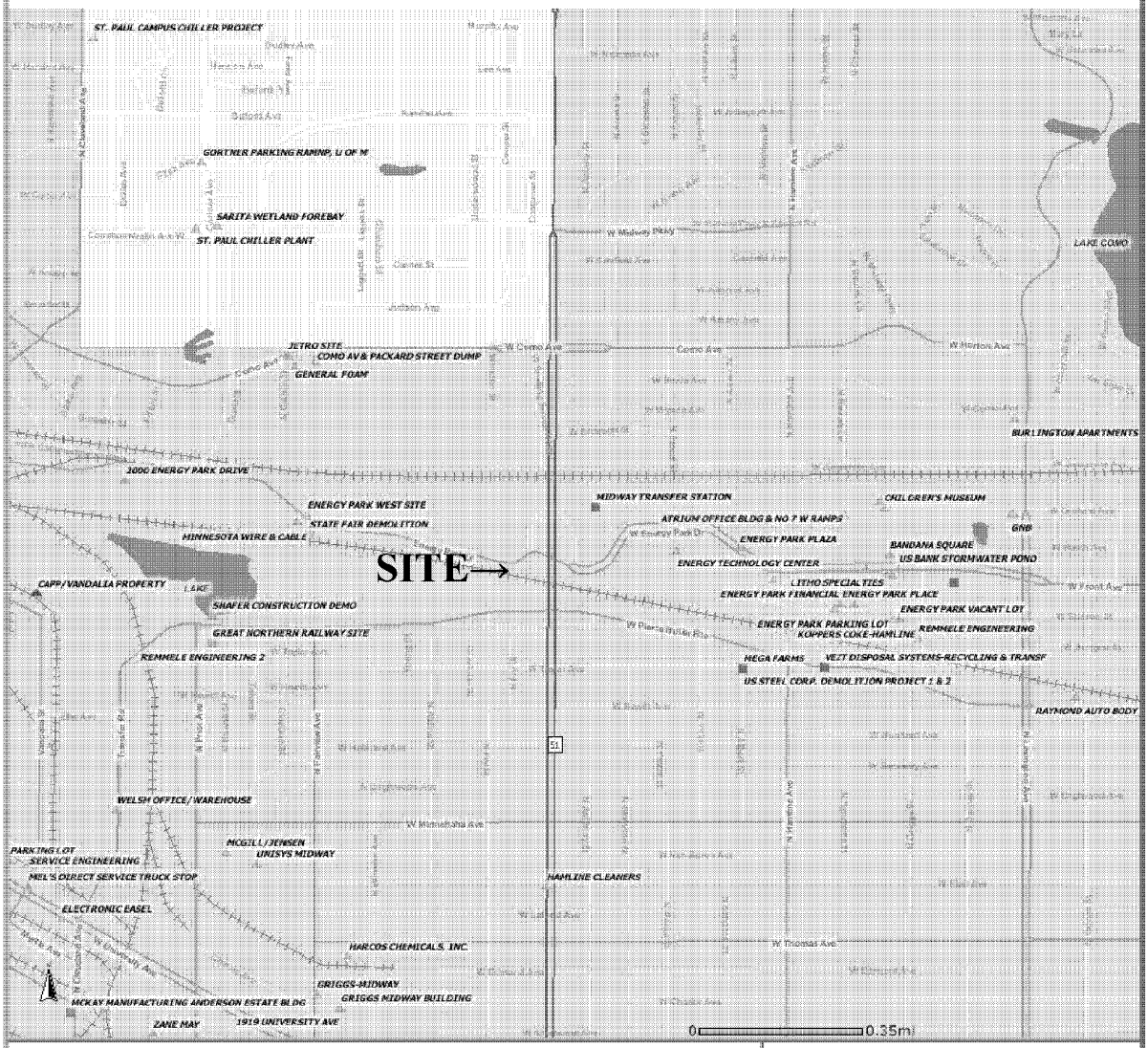
Site Contact: Clarence Hawkins
651-644-9133
Clarence.hawkins@ci.stpaul.mn.us

Training Location:	1683 Energy Park Drive, St. Paul
Type of foam used in training:	AFFF: 3M Light Water ATC (historic use) AR-AFFF: 3M Light Water ATC (historic use) Class A-B Hi Expansion: Kidde Hi-Ex
Foam training frequency:	Approximately every 18 months, when there is a recruit academy
Foam use per training event:	5 to 10 gallons
Spent foam destination:	Ground
Annual foam use:	AFFF: 15 gallons AR-AFFF: 15 gallons Class A-B Hi Ex: 12 ounces Class A: 2 gallons Other: 5 gallons (Ansulite 3%)
Nearest surface water:	Unidentified pond, 1/4 to 1/2 mile southwest
Nearest wetland:	1/2 to 1/2 mile southwest
Karst Area:	Training site appears to be located in an active karst area
Nearest water well:	Less than 1/8 mile east
Nearest Wellhead Protection Area:	More than 1 mile
SITE RANKING:	**22**

ST PAUL CWI Well Map



St. Paul *What's In My Neighborhood* Map



Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

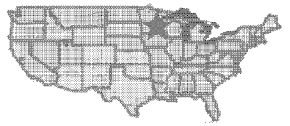
Minnesota Pollution Control Agency

Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

St Paul





Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:27,038

Map center: 44° 58' 12" N, 93° 10' 1" W

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

2222.1657

STATE_02822614

Minnesota Unique Well No.
122210

County Ramsey
Quad St Paul West
Quad ID 103B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 08/14/1991
Update Date 11/29/2007
Received Date

Well Name ST. PAUL PORT AUTHORITY
Township Range Dir Section Subsections Elevation 919 **ft.**
29 23 W 27 BCBBDC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
525 **ft.**	525 **ft.**	12/00/1983

Drilling Method Cable Tool

Well Address
ENERGY PARK DR
ST PAUL MN

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Air Conditioning

Geological Material	Color	Hardness	From	To
FILL	BLACK		0	18
WATER SAND	BROWN		18	45
GRAVEL	BROWN		45	70
SHALE	TAN		70	80
HARDPAN & ROCKS			80	85
SHALE, STONES	GRAY		85	92
SHALE, STONES	GRAY		92	100
SHALE	LT. GRY		100	114
PLATTEVILLE LIMROCK	GRAY		114	118
PLATTEVILLE LIMEROCK	GRAY		118	145
SHALE	GRAY		145	147
SHALE	LT. GRY		147	150
SHALE & SANDSTONE	LIGHT		150	151
SHALE & SANDSTONE	LIGHT		151	240
SANDSTONE	GRAY		240	280
SANDSTONE	WHITE		280	315
SHAKOPEE DOLOMITE	TAN		315	318
SHAKOPEE DOLOMITE	TAN		318	350
SHAKOPEE DOLOMITE	DK. TAN		350	420
JORDAN	WHITE		420	432
JORDAN	WHITE		432	440
JORDAN	WHITE		440	475
JORDAN	TAN		475	487
ST. LAWRENCE SHALE	BLUE		487	525

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
30 in. to 122 ft.	110 lbs./ft.	
24 in. to 150 ft.	94 lbs./ft.	

Open Hole from 323 ft. to 525 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between
0		0	323 ft. and 525 ft.

Static Water Level
150 ft. from Land surface Date Measured 01/00/1984

PUMPING LEVEL (below land surface)
211 ft. after 6 hrs. pumping 3500 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
GAMMA LOGGED 9-5-1983 & 9-29-1983. M.G.S. NO. 2090.

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement	from	to 122 ft.	12 yrds.
Grout Material: Neat Cement	from	to 150 ft.	14 yrds.

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Information from owner
Date N/A

System *UTM - Nad83, Zone15, Meters* **X:** 486908 **Y:** 4979958

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0 Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Turbine Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Cuttings Yes **Borehole Geophysics** Yes
First Bedrock Decorah
Last Strat St.Lawrence
Aquifer Multiple
Depth to Bedrock 92 **ft.**

Well Contractor Certification

License Business Name	Lic. Or Reg. No.	Name of Driller
Renner E.h. & Sons	02015	SIGAFOOS, G.

County Well Index Online Report

122210

Printed 6/29/2008
HE-01205-07

STATE_02822615

Minnesota Unique Well No.
161420

County Ramsey
Quad St Paul West
Quad ID 103B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/14/1991
Update Date 12/17/2003
Received Date

Well Name ST. PAUL PORT AUTHORITY
Township Range Dir Section Subsections Elevation 906 **ft.**
29 23 W 27 BCDCBB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
525 **ft.**	525 **ft.**	04/30/1982

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Air Conditioning

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
30 in. to 130 ft.	lbs./ft.	
24 in. to 160 ft.	lbs./ft.	

Open Hole from 325 ft. to 525 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
SNELLING AV
MN

Geological Material	Color	Hardness	From	To
SAND & GRAVEL			0	50
CLAY		HARD	50	92
HARDPAN & CLAY		HARD	92	94
SHALE	GRAY		94	135
PLATTEVILLE LIMEROCK			135	155
ST. PETER SANDROCK			155	303
SHAKOPEE LIMEROCK			303	437
JORDAN SANDROCK			437	525

Static Water Level
150 ft. from Land surface Date Measured 04/30/1982

PUMPING LEVEL (below land surface)
349 ft. after hrs. pumping 3500 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
M.G.S. NO. 2092.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number
Verification Information from owner
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 487056 **Y:** 4979751

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0 Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Cuttings Yes
First Bedrock Decorah
Last Strat Jordan
Aquifer Multiple
Depth to Bedrock 94 **ft.**

Well Contractor Certification
Bergerson-Caswell 27058
License Business Name Lic. Or Reg. No. Name of Driller

STATE_02822616

2222.1659

County Well Index Online Report	161420	Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
161422

County Ramsey
Quad St Paul West
Quad ID 103B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/14/1991
Update Date 12/28/2007
Received Date

Well Name ST. PAUL PORT AUTH. 1
Township Range Dir Section Subsections Elevation 925 **ft.**
29 23 W 27 BCCCCA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
548 ft.	548 ft.	06/01/1982

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Air Conditioning

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 2 **ft.**

Well Address
SNELLING AV
ST PAUL MN

Casing Diameter	Weight	Hole Diameter
30 in. to 135 ft.	118 lbs./ft.	30 in. to 178 ft.
24 in. to 178 ft.	94 lbs./ft.	24 in. to 353 ft.

Open Hole from 353 ft. to 548 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
FILL			0	20
WATER SAND			20	74
CLAY			74	76
STONE & ROCKS			76	85
SHALE			85	132
LIMEROCK			132	172
ST. PETER SANDROCK			172	336
SHAKOPEE			336	459
JORDAN SANDROCK			459	543
SHALE	BLUE	HARD	543	548

Static Water Level
169 ft. from Land surface Date Measured 06/01/1982

PUMPING LEVEL (below land surface)
231 ft. after 50 hrs. pumping 3500 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
M.G.S. NO. 1790.
USED 83 CUBIC YARDS OF NEAT CEMENT IN GROUTING.

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement from to 178 ft.
Grout Material: Neat Cement from to 353 ft.

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Information from owner
Date N/A

System *UTM - Nad83, Zone15, Meters*
X: 486883 **Y:** 4979690

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Cuttings Yes
First Bedrock Decorah
Last Strat St.Lawrence
Aquifer Prairie Du Chien-Jordan
Depth to Bedrock 85 **ft.**

Well Contractor Certification
Bergerson-Caswell 27058
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report | **161422** | Printed 6/29/2008 HE-01205-07

STATE_02822618

2222.1661

Minnesota Unique Well No.
200170

County Ramsey
Quad St Paul West
Quad ID 103B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 08/14/1991
Update Date 08/23/1991
Received Date

Well Name CANADIAN NATIONAL RAILWA

Township	Range	Dir	Section	Subsections	Elevation	Elevation Method
29	23	W	28	ABBD	905 ft.	7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
33 ft.	33 ft.	03/00/1939

Drilling Method

Geological Material	Color	Hardness	From	To
SANDY CLAY			0	2
COARSE GRAVEL, ROCKS, CLAY			2	17
SANDY CLAY			17	18
SAND, GRAVEL AND CLAY STREAKS			18	32
WATER BEARING SAND CLAY AND GRAVE			32	33

Drilling Fluid

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Test well

Casing Type **Joint** **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter	Weight	Hole Diameter

Open Hole from ft. to ft.

Screen

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
CASING: 016 TO 0144;012 TO 0430;010 TO 0439.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A **Date** N/A
System *UTM - Nad83, Zone15, Meters*
X: 486105 **Y:** 4980376

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Keys Well Co. 62012
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Unknown deposit type
Aquifer
Depth to Bedrock **ft.**

County Well Index Online Report

200170

Printed 6/29/2008
HE-01205-07

Minnesota Unique Well No.
430690

County Ramsey
Quad St Paul West
Quad ID 103B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 09/07/1989
Update Date 02/22/2008
Received Date

Well Name ENERGY PARK BLK-1 L
Township Range Dir Section Subsections Elevation 908 **ft.**
29 23 W 27 BDBDDB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
220 **ft.**	220 **ft.**	03/13/1987

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Other (specify in remarks)

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 2 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 171 ft.	lbs./ft.	4 in. to 220 ft.

Well Address
1900 AMHOIST TOWER
ST PAUL MN 55102

Open Hole from 171 ft. to 220 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
COARSE SAND & GRAVEL	BROWN	SOFT	0	8
BLACK CLAY, SAND & GRAVEL MIX	BROWN	SOFT	8	18
SAND & GRAVEL	BROWN	SOFT	18	75
SHALE	BLU/GRY	M.SOFT	75	111
SHALE & SANDSTONE	GRAY	MEDIUM	111	117
LIMESTONE	GRAY	HARD	117	154
LIMESTONE	BLU/GRY	MEDIUM	154	160
SANDSTONE	WHITE	SOFT	160	220

Static Water Level
135 ft. from Land surface Date Measured 03/29/1987

PUMPING LEVEL (below land surface)
139.3 ft. after 5.5 hrs. pumping 25 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
M.G.S. NO. 2594.
NEXT TO WELL NO.2 161420.

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Neat Cement from to 171 ft.

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number
Verification Information from owner
Date N/A
System *UTM - Nad83, Zone15, Meters* **X:** 487006 **Y:** 4979873

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP 0 Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Cuttings Yes
First Bedrock Decorah
Last Strat St.Peter
Aquifer St.Peter
Depth to Bedrock 75 **ft.**

Well Contractor Certification
Traut M.j. Well Co. 71536 MARK/ROB
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report | **430690** | Printed 6/29/2008 IIE-01205-07

STATE_02822620

Minnesota Unique Well No.
433278

County Ramsey
Quad St Paul West
Quad ID 103B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 09/07/1989
Update Date 12/17/2003
Received Date

Well Name DEPT. OF NATURAL RE
Township Range Dir Section Subsections Elevation 922 **ft.**
29 23 W 21 DCAD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
393 **ft.**	393 **ft.**	07/14/1988

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Other (specify in remarks)

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Well Address
ST PAUL MN

Casing Diameter	Weight	Hole Diameter
12 in. to 129 ft.	lbs./ft.	
6 in. to 332 ft.	lbs./ft.	

Open Hole from 332 ft. to 393 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
SAND + GRAVEL	BROWN	SOFT	0	70
CLAY, SAND + GRAVEL	BROWN	SOFT	70	95
SAND + GRAVEL	BROWN	SOFT	95	129
LIMEROCK (PLATTEVILLE)	GRAY	HARD	129	152
LIMEROCK (PLATTEVILLE)	GRAY	HARD	152	158
SANDSTONE (ST. PETER)	GRAY	MEDIUM	158	316
SANDSTONE (ST. PETER)	GRAY	MEDIUM	316	323
LIMEROCK (SHAKOPEE)	GRAY	HARD	323	392
SANDSTONE (JORDAN)	WHITE	MEDIUM	392	393

Static Water Level
169 ft. from Land surface Date Measured 07/14/1988

PUMPING LEVEL (below land surface)
171 ft. after hrs. pumping 60 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
GAMMA LOGGED 7-12-88.
M.G.S. NO. 2704.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Information from owner
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 486416 **Y:** 4980718

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed
Manufacturer's name GRUNDFOS Model number SP-16 HP 5 Volts 220
Length of drop Pipe 189 ft. Capacity 60 g.p.m Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Cuttings Yes **Borehole Geophysics** Yes
First Bedrock Platteville
Last Strat Prairie Du Chien Group
Aquifer Prairie Du Chien Group
Depth to Bedrock 129 **ft.**

Well Contractor Certification
Keys Well Co. 62012
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report | **433278** | Printed 6/29/2008 HE-01205-07

STATE_02822621

2222.1664

Minnesota Unique Well No.
449079

County Ramsey
Quad St Paul West
Quad ID 103B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 11/08/2007
Update Date 12/13/2007
Received Date

Well Name A-UG
Township Range Dir Section Subsections Elevation 923 **ft.**
29 23 W 28 DAAAAB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
63 **ft.**	60 **ft.**	06/21/1988

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Monitor well

Casing Type Plastic **Joint** Threaded **Drive Shoe?** ☐ Yes ☑ No **Above/ Below** 3 **ft.**

Casing Diameter	Weight	Hole Diameter
2 in. to 50 ft.	1.7 lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	10	10	50 ft. and 60 ft.

Well Address
950 SNELLING AV
ST PAUL MN

Geological Material	Color	Hardness	From	To
GRAVEL	BROWN		0	45
MEDIUM SAND	BROWN		45	60
CLAY ROCKY	RED/BRN		60	63

Static Water Level
42.9 ft. from Land surface Date Measured 06/21/1988

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
LOCATION: WEST OF SNELLING 75 FT SOUTH OF BN TRACKS 150'

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement from to 60 ft. 12 bags

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Other, note in remarks
Date 11/08/2007
System *UTM - Nad83, Zone15, Meters*
X: 486792 **Y:** 4979614

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☑ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Renner E.H. Well | 71015 | PRAUGHT, V.
License Business Name | Lic. Or Reg. No. | Name of Driller

First Bedrock
Last Strat Pebbly sand/silt/clay
Aquifer Quat. Water Table Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **449079** | Printed 6/29/2008 HE-01205-07

STATE_02822622

2222.1665

Minnesota Unique Well No.
461432

County Ramsey
Quad St Paul West
Quad ID 103B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 11/08/2007
Update Date 12/13/2007
Received Date

Well Name MW-1

Township	Range	Dir	Section	Subsections	Elevation	Elevation Method
29	23	W	28	BDABCD	898 ft.	7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
28 ft.	28 ft.	09/12/1990

Drilling Method Power Auger

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Monitor well

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 3 ft.

Casing Diameter	Weight	Hole Diameter
2 in. to 17.5 ft.	lbs./ft.	8 in. to 27.5 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	10	10	17.5 ft. and 27.5 ft.

Well Address
ENERGY PARK DR
ST PAUL MN

Geological Material	Color	Hardness	From	To
SILTY CLAY	BROWN		0	5
SILTY SAND	BLACK		5	14
GRAY WATER SAND	BLACK		14	28

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
LOCATION: OPUS ENERGY PARK DRIVE - NOVA BLOCK 1 LOTS 3,4,&5

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Neat Cement from 2 to 15 ft.

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Lot Block
Date 11/08/2007
System *UTM - Nad83, Zone15, Meters*
X: 485859 **Y:** 4979942

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Dpra M0054 ETI
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand
Aquifer Quat. Water Table Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **461432** | Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
462337

County Ramsey
Quad St Paul West
Quad ID 103B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 11/08/2007
Update Date 12/13/2007
Received Date

Well Name MW-2
Township Range Dir Section Subsections Elevation 898 **ft.**
29 23 W 28 BDBCDB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
28 ft.	28 ft.	09/13/1990

Drilling Method Power Auger

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Monitor well

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 2.2 **ft.**

Casing Diameter	Weight	Hole Diameter
2 in. to 18 ft.	lbs./ft.	8 in. to 28 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	10	10	18 ft. and 28 ft.

Well Address
ENERGY PARK DR
ST PAUL MN

Geological Material	Color	Hardness	From	To
SILTY SAND	BLACK		0	14
SILTY SAND	BROWN		14	21
MED FINE SAND	GRAY		21	28

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
LOCATION: OPUS ENERGY PARK DR BLOCK 1 LOTS 3,4,& 5.

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement from 2 to 15 ft.

Located Minnesota Geological Survey **Method** Digitization (Screen) - Map (1:24,000)
Unique Number Verification Lot Block **Date** 11/08/2007
System *UTM - Nad83, Zone15, Meters* **X:** 485697 **Y:** 4979881

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Dpra M0054 ETI
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-gray
Aquifer Quat. Water Table Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **462337** | Printed 6/29/2008 HE-01205-07

STATE_02822624

2222.1667

Minnesota Unique Well No.
462338

County Ramsey
Quad St Paul West
Quad ID 103B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 11/08/2007
Update Date 12/13/2007
Received Date

Well Name MW-3

Township	Range	Dir	Section	Subsections	Elevation	
29	23	W	28	BDACDD	**Elevation Method**	898 **ft.** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
31 **ft.**	28 **ft.**	09/13/1990

Drilling Method Power Auger

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Monitor well

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 2.7 **ft.**

Casing Diameter	Weight	Hole Diameter
2 in. to 18 ft.	lbs./ft.	8 in. to 31 ft.

Well Address
ENERGY PARK DR
ST PAUL MN

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	10	10	18 ft. and 28 ft.

Geological Material	Color	Hardness	From	To
SILTY SAND	BROWN		0	9
SANDY CLAY	BLU/GRY		9	18
SILTY SAND	BLACK		18	28
PEAT			28	31

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
LOCATION: OPUS - ENERGY PARK DR - NOVA BLOCK 1 LOTS 3,4 & 5

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Neat Cement from 2 to 15 ft.

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Lot Block
Date 11/08/2007
System *UTM - Nad83, Zone15, Meters*
X: 485931 **Y:** 4979855

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Dpra M0054 ETI
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Peat
Aquifer Quat. Water Table Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **462338** | Printed 6/29/2008 HE-01205-07

STATE_02822625

2222.1668

Minnesota Unique Well No.
674945

County Ramsey
Quad St Paul West
Quad ID 103B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 10/23/2002
Update Date 12/10/2007
Received Date

Well Name MN FAIRGROUNDS MW-9

Township	Range	Dir	Section	Subsections	Elevation	Elevation Method
29	23	W	28	BAABBB	900 ft.	7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
14 ft.	14 ft.	07/24/2002

Drilling Method Auger (non-specified)

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Monitor well

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
2 in. to 4 ft.	0.69 lbs./ft.	8.3 in. to 14 ft.

Open Hole from ft. to ft.

Screen YES **Make** TIMCO **Type**

Diameter	Slot/Gauze	Length	Set Between
2	10	10	4 ft. and 14 ft.

Static Water Level
8 ft. from Land surface Date Measured 07/24/2002

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☑ Casing Protection Y ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
CANFIELD & COMO LM
ST PAUL MN

Geological Material	Color	Hardness	From	To
FINE SAND GRAVEL	BLK/BRN	MEDIUM	0	4
FINE SAND GRAVEL	BROWN	MEDIUM	4	6
WET FINE SAND GRAVEL	BROWN	MEDIUM	6	9
FINE SAND GRAVEL	BROWN	MEDIUM	9	14

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement	from 0 to 3 ft.	3 bags
Grout Material: Bentonite	from 3 to 3.5 ft.	1 bags

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Tag on well
Date 10/04/2007
System *UTM - Nad83, Zone15, Meters*
X: 485854 **Y:** 4980429

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☑ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
Thein Well Co. 34625 HILBRANDS, B.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand & larger-brown
Aquifer Quaternary Undiff.
Depth to Bedrock ft.

County Well Index Online Report | **674945** | Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
674946

County Ramsey
Quad St Paul West
Quad ID 103B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 10/23/2002
Update Date 12/10/2007
Received Date

Well Name MN FAIRGROUNDS MW-10
Township Range Dir Section Subsections Elevation 932 **ft.**
29 23 W 21 DDDAAB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
50 **ft.**	50 **ft.**	07/27/2002

Drilling Method Auger (non-specified)

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Monitor well

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
2 in. to 40 ft.	0.69 lbs./ft.	8.3 in. to 50 ft.

Open Hole from ft. to ft.

Screen YES **Make** TIMCO **Type**

Diameter	Slot/Gauze	Length	Set Between
2	10	10	40 ft. and 50 ft.

Well Address
RANDALL & COMMONWEAL LM

Geological Material	Color	Hardness	From	To
SILTY SAND	BLK/BRN	MEDIUM	0	4
FINE SAND GRAVEL	BROWN	MEDIUM	4	44
WET FINE SAND GRAVEL	BROWN	MEDIUM	44	50

Static Water Level
44 ft. from Land surface Date Measured 07/27/2002

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☑ Casing Protection Y ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement	from 0 to 35 ft.	6 bags
Grout Material: Bentonite	from 35 to 37 ft.	1 bags

Located Minnesota Geological Survey **Method** Digitization (Screen) - Map (1:24,000)

Unique Number Verification Information from owner **Date** N/A

System *UTM - Nad83, Zone15, Meters* **X:** 486802 **Y:** 4980641

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☑ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
Thein Well Co. 34625 HILBRANDS, BR
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand & larger-brown
Aquifer Quaternary Undiff.
Depth to Bedrock ft.

County Well Index Online Report **674946** Printed 6/29/2008 HE-01205-07

STATE_02822627

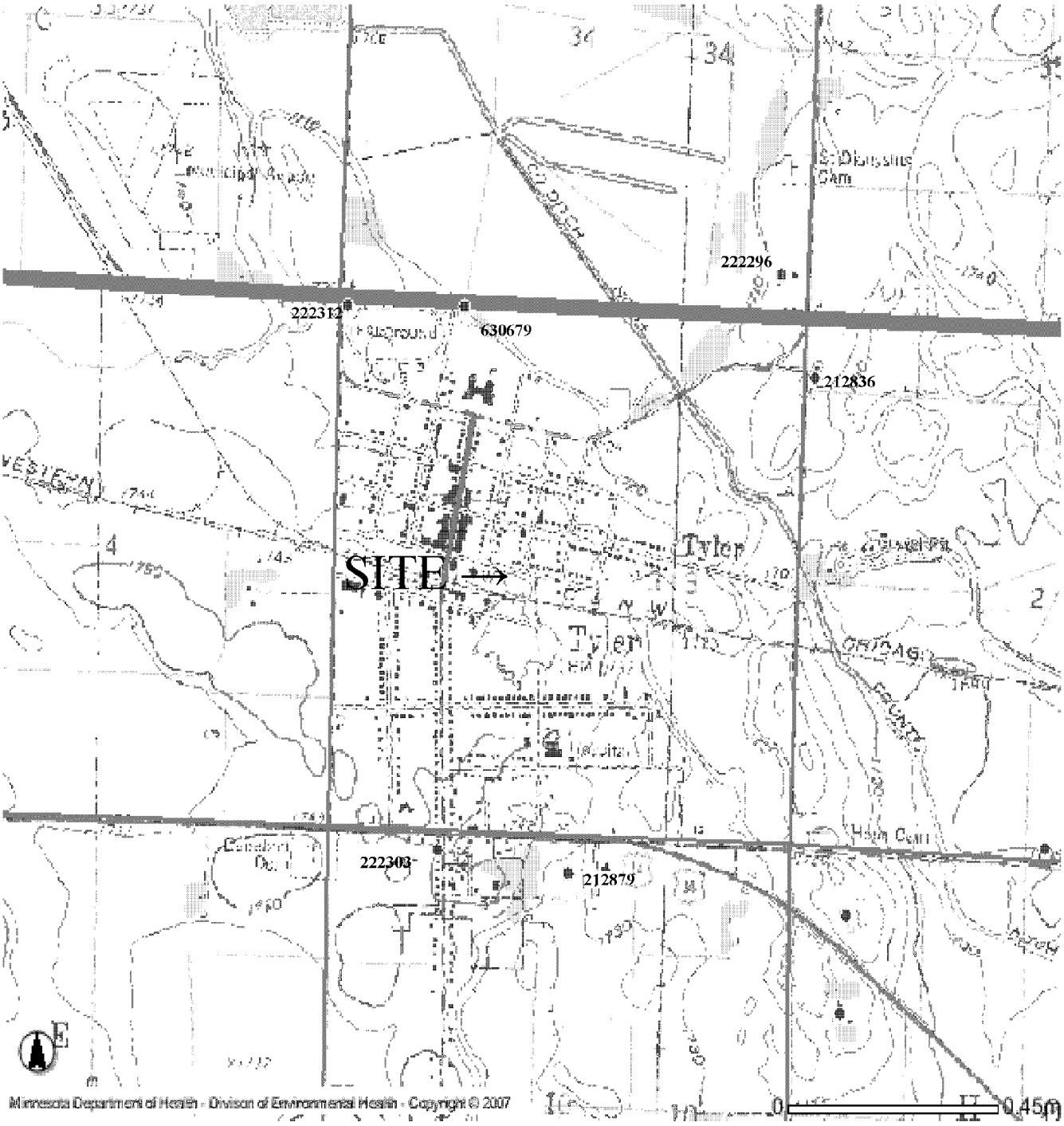
2222.1670

SITE SUMMARY

Site Name:	Tyler
Fire Department:	Tyler Fire Department Tyler, MN 56178
Site Contact:	Richard Borresen, Fire Chief 507-247-5556 ridiane@frontiernet.net

Training Location:	Corner of Bradley and Applebee, Tyler
Type of foam used in training:	AR-AFFF: Angus (use in training not specified) Class A: Anul Silv-ex (use in training not specified)
Foam training frequency:	Quarterly
Foam use per training event:	Less than 5 gallons
Spent foam destination:	80% to ground, 20% to storm sewer
Annual foam use:	AR-AFFF: not specified Class A: not specified
Nearest surface water:	County ditch, 1/2 to 1 mile northeast
Nearest wetland:	1/4 to 1/2 mile north
Nearest water well:	Approximately 1/2 mile north and south
Nearest Wellhead Protection Area:	More than 1 mile
SITE RANKING:	**9**

TYLER CWI Well Map



Tyler *What's In My Neighborhood* Map



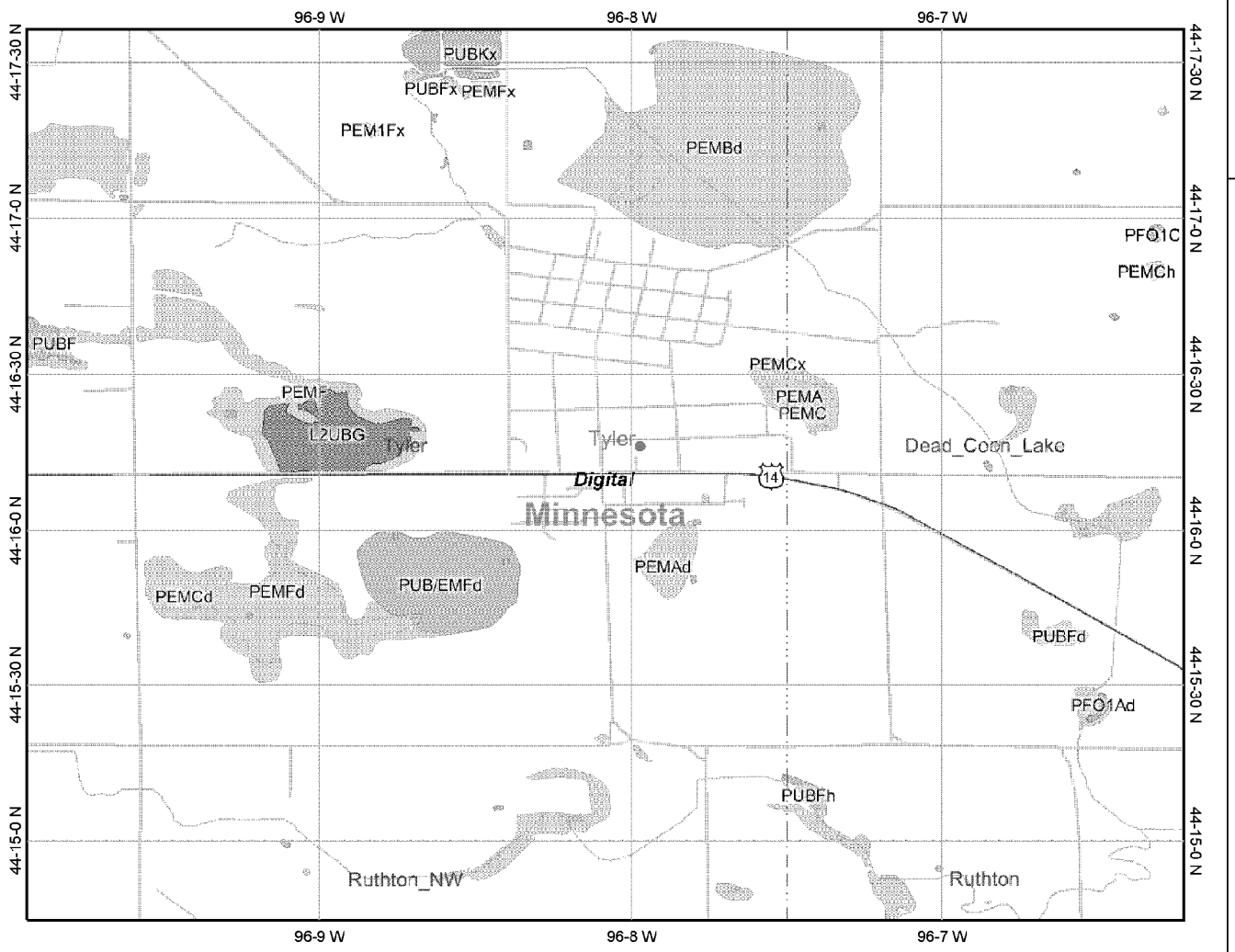
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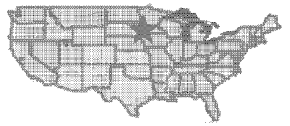
Minnesota Pollution Control Agency

Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

Tyler Wetland Map





Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:37,102

Map center: 44° 16' 11" N, 96° 8' 5" W

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

2222.1674

STATE_02822631

Minnesota Unique Well No.
212836

County Lincoln
Quad Dead Coon Lake
Quad ID 83D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/11/1988
Update Date 08/12/1992
Received Date

Well Name BLOMGREN, M.L.

Township	Range	Dir	Section	Subsections	Elevation	
109	44	W	2	BBBCCA	**Elevation Method**	1730 **ft.** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
114 **ft.**	114 **ft.**	00/00/1957

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Domestic

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter **Slot/Gauze** **Length** **Set Between**

Well Address

TYLER MN

Geological Material	Color	Hardness	From	To
CLAY	YELLOW		0	30
CLAY	BLUE		30	114
GRAVEL			114	114

Static Water Level
72 ft. from Land surface Date Measured 1957

PUMPING LEVEL (below land surface)
77 ft. after hrs. pumping 8 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
NURE NO. 600781.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Information from owner
Date N/A

System *UTM - Nad83, Zone15, Meters* **X:** 251083 **Y:** 4907976

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

First Bedrock
Last Strat Gravel (+larger)
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock **ft.**

Well Contractor Certification
Minett Well Drilling 59234 MINNETT, J.
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report **212836** Printed 6/29/2008 HE-01205-07

STATE_02822632

2222.1675

Minnesota Unique Well No.
212879

County Lincoln
Quad Tyler
Quad ID 83C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/11/1988
Update Date 08/12/1992
Received Date

Well Name OLD PEOPLES HOME
Township Range Dir Section Subsections Elevation 1727 **ft.**
109 44 W 10 ABBCBB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
182 **ft.**	182 **ft.**	00/00/1961

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Commercial

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
5 in. to 182 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter **Slot/Gauze** **Length** **Set Between**

Static Water Level
80 ft. from Land surface Date Measured 1961

PUMPING LEVEL (below land surface)
80 ft. after hrs. pumping 0 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address

TYLER MN

Geological Material	Color	Hardness	From	To
CLAY	YELLOW		0	30
CLAY	BLUE		30	45
SOUPY SAND MIXED WITH CLAY			45	60
CLAY & BOULDERS	BLUE		60	82
SAND & GRAVEL, DRY			82	86
CLAY	BLUE		86	97
GRAVEL & CLAY LAYERS			97	113
CLAY SANDY	BLUE		113	128
FINE SOUPY SAND & WATER			128	140
CLEANER FINE SAND & WATER			140	153
LAYERS OF CLAY	BLUE		153	158
SOUPY SAND & WATER			158	177
LAYERS OF HARD PAN			177	180
WATER & GRAVEL			180	182

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number
Verification Information from neighbor **Date** N/A

System *UTM - Nad83, Zone15, Meters* **X:** 250232 **Y:** 4906478

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Minett Well Drilling 59234 MINETT, C.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Gravel (+larger) **Aquifer** Quat. Buried Artes. Aquifer **Depth to Bedrock** ft.

County Well Index Online Report **212879** Printed 6/29/2008 HE-01205-07

STATE_02822633

2222.1676

Minnesota Unique Well No.
222296

County Lincoln
Quad Dead Coon Lake
Quad ID 83D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/11/1988
Update Date 08/12/1992
Received Date

Well Name GYLLING, ROBERT

Township	Range	Dir	Section	Subsections	Elevation
110	44	W	34	DDDBDD	1722 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
45 ft.	45 ft.	

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 ft.

Casing Diameter	Weight	Hole Diameter
30 in. to 45 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
TYLER MN

Geological Material	Color	Hardness	From	To
CLAY	YELLOW		0	12
SAND			12	14
CLAY	BLUE		14	45

Static Water Level
10 ft. from Land surface Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number
Verification Information from neighbor **Date** N/A

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

System *UTM - Nad83, Zone15, Meters* **X:** 250967 **Y:** 4908288

Pump ☑ Not Installed Date Installed
Manufacturer's name Model number ___ HP 0.5 Volts
Length of drop Pipe 40 ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
United States Geological Survey USGS
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Clay-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report **222296** Printed 6/29/2008 HE-01205-07

STATE_02822634

2222.1677

Minnesota Unique Well No.
222303

County Lincoln
Quad Tyler
Quad ID 83C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/11/1988
Update Date 03/17/1992
Received Date

Well Name THOMPSON
Township Range Dir Section Subsections Elevation 1750 **ft.**
109 44 W 10 BBAAAD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
425 ft.	425 ft.	08/15/1957

Drilling Method

Drilling Fluid

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Domestic

Casing Type **Joint** **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter **Weight** **Hole Diameter**

Open Hole from ft. to ft.

Screen
Diameter **Slot/Gauze** **Length** **Set Between**

Well Address
TYLER MN

Geological Material	Color	Hardness	From	To
TILL	YELLOW		0	8
FINE SAND & WATER			8	30
TILL	BLUE		30	128
VERY FINE SAND BAILED DRY			128	150
TILL	BLUE		150	195
TILL	YELLOW		195	220
TILL	BLUE		220	250
BOULDERS IN CLAY MATRIX			250	262
VERY SANDY TILL	BLUE		262	300
SAND SOME GRAVEL & WATER			300	304
TILL VERY COMPACT LARGE GRAVELS	BLUE		304	412
TILL	YELLOW		412	425

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
DRY HOLE 3.5 GPM AT 300 FT.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number
Verification Information from owner
Date N/A

System *UTM - Nad83, Zone15, Meters* **X:** 249781 **Y:** 4906550

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Minett Well Drilling 59234
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Pebbly sand/silt/clay
Aquifer
Depth to Bedrock **ft.**

County Well Index Online Report **222303** Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
222312

County Lincoln
Quad Tyler
Quad ID 83C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/11/1988
Update Date 08/12/1992
Received Date

Well Name TYLER
Township Range Dir Section Subsections Elevation 1727 **ft.**
109 44 W 3 BBBBBB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
295 **ft.**	295 **ft.**	00/00/1960

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Test well

Well Address
TYLER MN

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
5 in. to 295 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen **Make** **Type**
Diameter **Slot/Gauze** **Length** **Set Between**

Geological Material	Color	Hardness	From	To
DIRT			0	5
CLAY	YELLOW		5	30
CLAY	BLUE		30	95
GRAVEL & ROCKS & SOME WATER			95	130
CLAY	BLUE		130	155
LIGHT SAND & BLUE CLAY	BLUE		155	188
CLAY	BLUE		188	195
CLAY	YELLOW		195	220
CLAY	BLUE		220	224
SAND & WATER			224	232
CLAY	YELLOW		232	240
CLAY	BLUE		240	250
SAND & WATER			250	255
CLAY	BLUE		255	268
FINE SAND DRY			268	275
CLAY	BLUE		275	290
SAND & WATER			290	295

Static Water Level
72 ft. from Land surface Date Measured 1960

PUMPING LEVEL (below land surface)
205 ft. after hrs. pumping 30 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
TOO WEAK FOR CITY

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number
Verification Information from owner **Date** N/A

System *UTM - Nad83, Zone15, Meters* **X:** 249472 **Y:** 4908197

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP 0 Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Minett Well Drilling 59234 MINETT, J.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock **ft.**

County Well Index Online Report

222312

Printed 6/29/2008
HE-01205-07

STATE_02822636

Minnesota Unique Well No.
630679

County Lincoln
Quad Tyler
Quad ID 83C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 11/12/2004
Update Date 01/16/2007
Received Date 01/26/2005

Well Name R&R HIGH SCHOOL
Township Range Dir Section Subsections Elevation 1710 **ft.**
109 44 W 3 BABB **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
172 **ft.**	172 **ft.**	08/02/2004

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Irrigation

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** **ft.**

Casing Diameter	Weight	Hole Diameter
6 in. to 172 ft.	19.2 lbs./ft.	6 in. to 172 ft.

Well Address
100 STRONG ST
TYLER MN

Open Hole from ft. to ft.

Screen NO **Make** **Type**
Diameter **Slot/Gauze** **Length** **Set Between**

Geological Material	Color	Hardness	From	To
DIRT	BLACK	SOFT	0	2
CLAY	YELLOW	SOFT	2	32
CLAY	BLUE	SOFT	32	166
WATER BEARING	DARK	SOFT	166	172

Static Water Level
68 ft. from Land surface Date Measured 08/02/2004

PUMPING LEVEL (below land surface)
ft. after 1 hrs. pumping 60 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
THIS WELL IS TO WATER THE FOOTBALL FIELD

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Bentonite from to 60 ft.

Located Minnesota Department of Health **Method** GPS SA Off (averaged)
Unique Number Verification N/A **Date** 09/28/2004
System *UTM - Nad83, Zone15, Meters* **X:** 249875 **Y:** 4908193

Nearest Known Source of Contamination
72 feet S direction type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number HP Volts
Length of drop Pipe ft. Capacity g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
Minett Well Drilling 59234 MINETT, J.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat
Aquifer
Depth to Bedrock **ft.**

County Well Index Online Report

630679

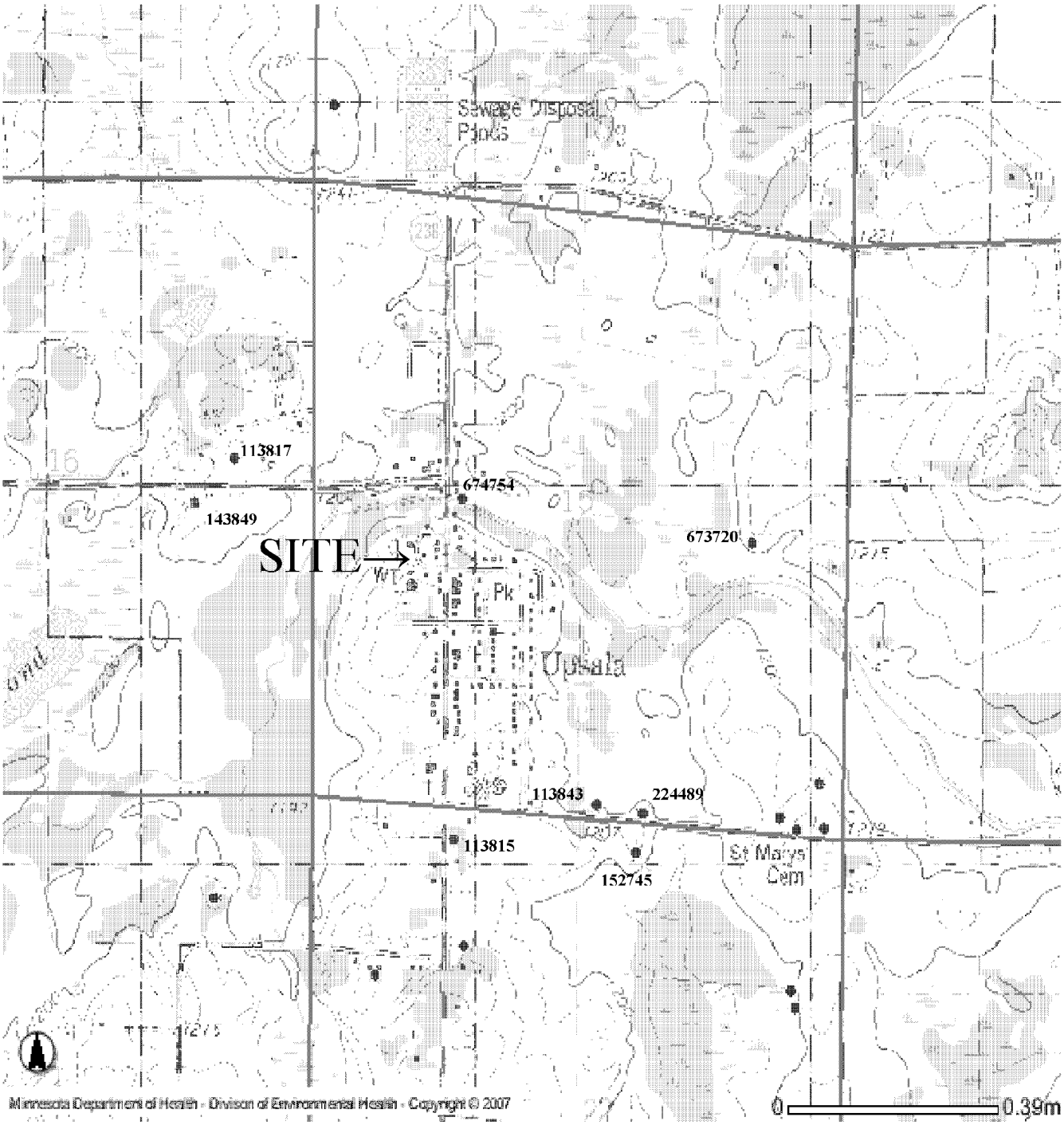
Printed 6/29/2008
HE-01205-07

SITE SUMMARY

Site Name:	Upsala
Fire Department:	Upsala Fire Department PO Box 164 Upsala, MN 56384
Site Contact:	Jay Baggenstoss, Fire Chief 320-573-4101

Training Location:	110 W. Elm Avenue, Upsala
Type of foam used in training:	Class A-B Hi Expansion: Unsure of brand, 3M brand assumed
Foam training frequency:	Semi-Annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Storm sewer
Annual foam use:	Class A-B Hi Ex: 5 to 10 gallons
Nearest surface water:	North Twin River, less than 1/4 mile north
Nearest wetland:	Less than 1/4 mile north
Nearest water well:	Less than 1/4 mile north
Nearest Wellhead Protection Area:	More than 1 mile
SITE RANKING:	**21**

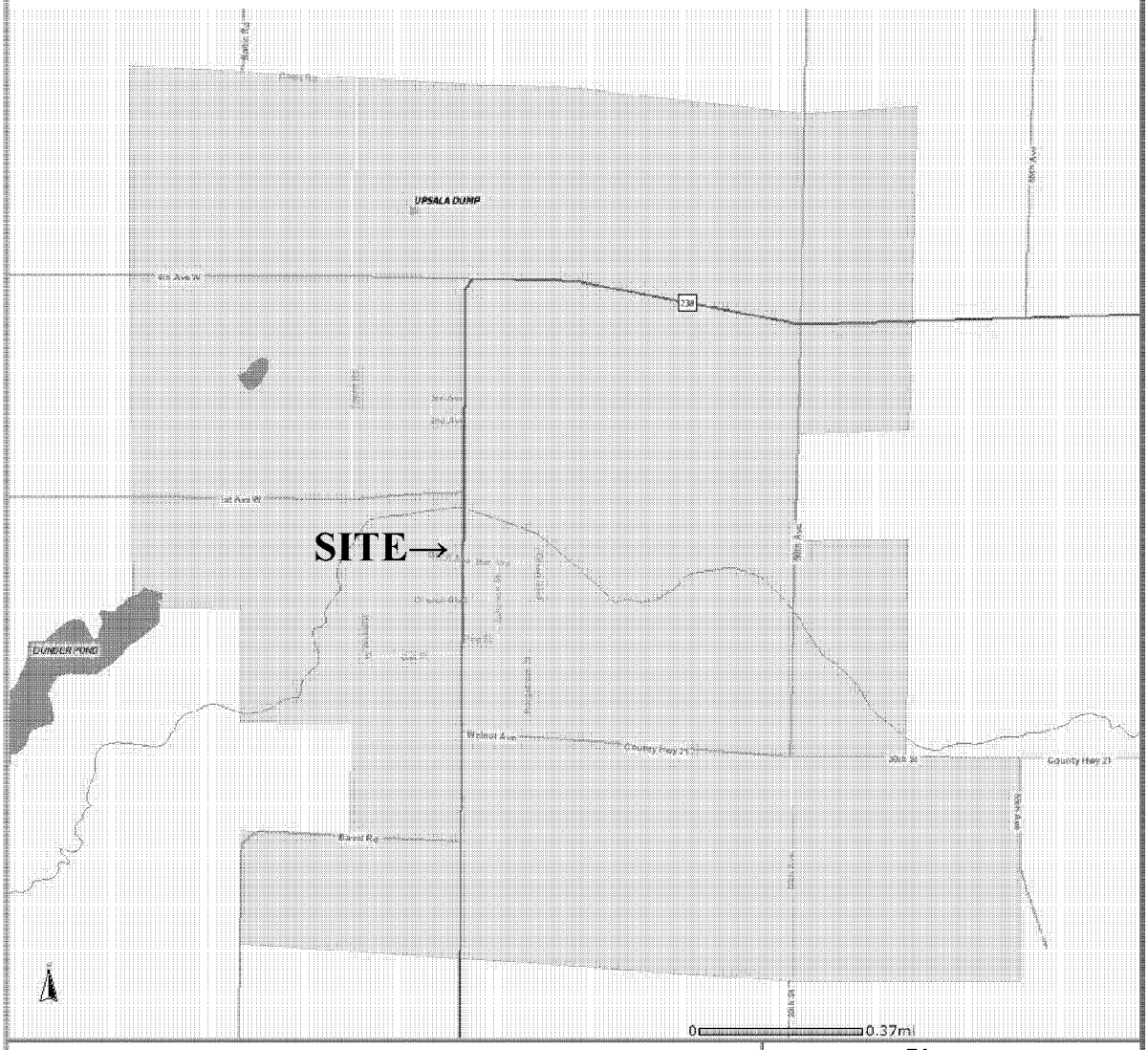
UPSALA CWI Well Map



STATE_02822639

2222.1682

Upsala *What's In My Neighborhood* Map



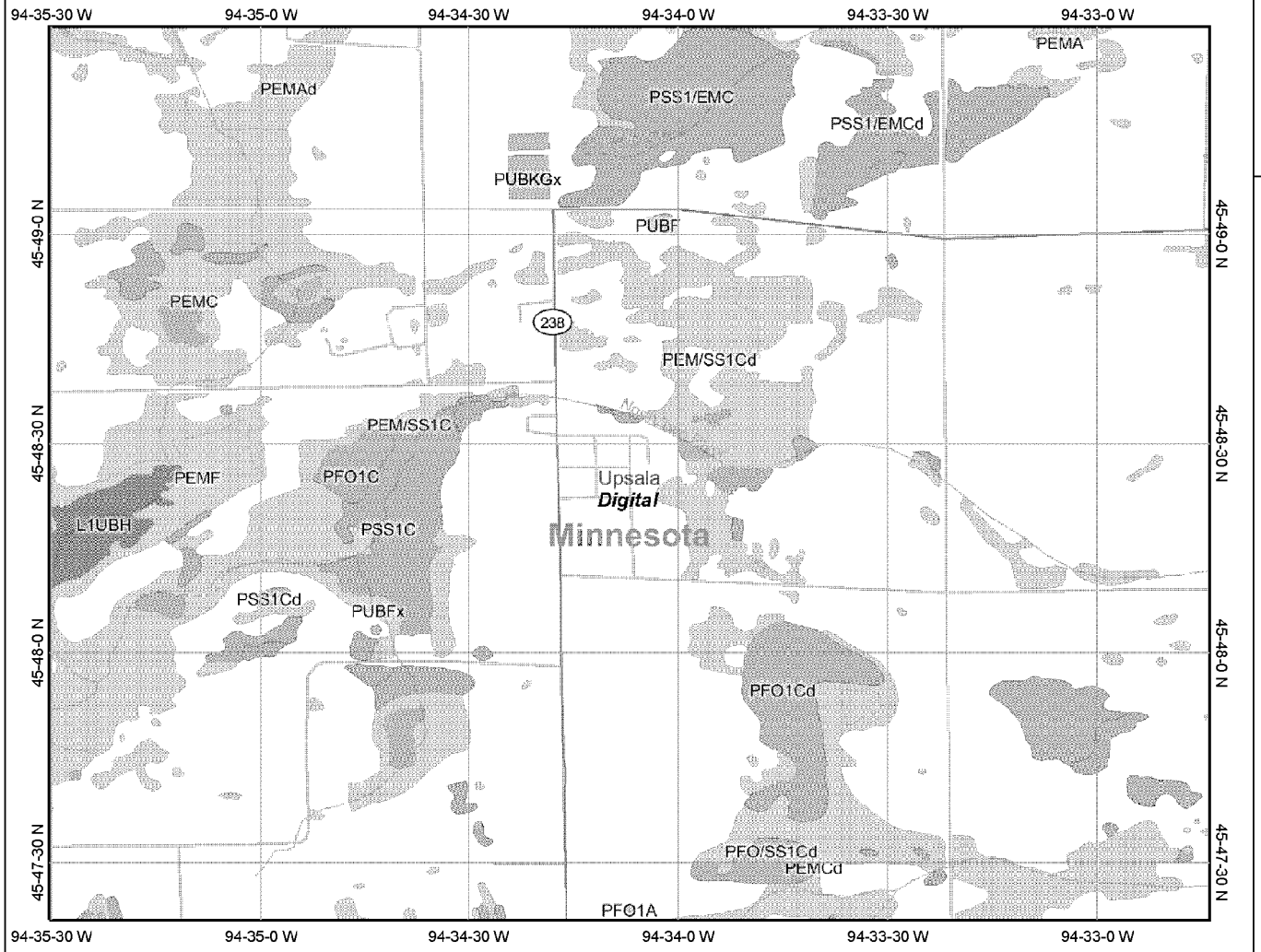
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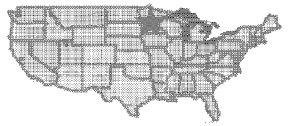
Minnesota Pollution Control Agency

Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

Upsala Wetland Map





Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:27,720

Map center: 45° 48' 26" N, 94° 34' 7" W

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

2222.1684

STATE_02822641

Minnesota Unique Well No.
113815

County Morrison
Quad Upsala
Quad ID 177D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/13/1988
Update Date 03/26/2004
Received Date

Well Name GETHSEMANE LUTHERAN CH.

Township	Range	Dir	Section	Subsections	Elevation
127	31	W	22	BBBDCC	1221 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
104 ft.	104 ft.	08/07/1975

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 100 ft.	11 lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4			100 ft. and 104 ft.

Static Water Level
25 ft. from Land surface Date Measured 09/30/1975

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address

UPSALA MN 56384

Geological Material	Color	Hardness	From	To
CLAY & ROCKS			0	18
SAND			18	38
BLUE CLAY			38	80
BROWN CLAY			80	90
BLUE CLAY			90	98
SAND			98	104

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☑ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Name on mailbox
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 377914 **Y:** 5073284

Nearest Known Source of Contamination
400 feet _direction _type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☑ Not Installed Date Installed 09/30/1975
Manufacturer's name RED JACKET Model number BVC
__ HP 0.5 Volts 230
Length of drop Pipe 72 ft. Capacity 15 g.p.m Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification

License Business Name	Lic. Or Reg. No.	Name of Driller
Eckstrom Well	49101	ECKSTROM, D.

First Bedrock
Last Strat Sand
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report

113815

Printed 6/29/2008
HE-01205-07

STATE_02822642

2222.1685

Minnesota Unique Well No.
113817

County Morrison
Quad Upsala
Quad ID 177D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/13/1988
Update Date 03/26/2004
Received Date

Well Name HOVLAND, DAN

Township	Range	Dir	Section	Subsections	Elevation	
127	31	W	16	ADCDAC	1212 ft.	7.5 minute topographic map (+/- 5 feet)

Elevation Method

Well Depth	Depth Completed	Date Well Completed
70 ft.	70 ft.	09/18/1975

Drilling Method Cable Tool

Well Address
UPSALA MN 56384

Geological Material	Color	Hardness	From	To
YELLOW CLAY			0	10
SAND			10	19
BROWN CLAY			19	30
BLUE CLAY			30	60
GRAY SAND			60	70

Drilling Fluid
--

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 64 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** HOWARD SMITH **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	18	4	64 ft. and 70 ft.

Static Water Level
21 ft. from Land surface Date Measured 09/25/1975

PUMPING LEVEL (below land surface)
21 ft. after 1 hrs. pumping 15 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☑ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Information from neighbor
Date N/A

System *UTM - Nad83, Zone15, Meters*
X: 377257 **Y:** 5074283

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☑ Not Installed Date Installed 09/17/1975
Manufacturer's name RED JACKET Model number BVC HP 0.5 Volts 230
Length of drop Pipe 48 ft. Capacity 15 g.p.m
Type Submersible Material Galvanized

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification

License Business Name	Lic. Or Reg. No.	Name of Driller
Eckstrom Well	49101	ECKSTROM, D.

First Bedrock
Last Strat Sand-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report

113817

Printed 6/29/2008
HE-01205-07

STATE_02822643

2222.1686

Minnesota Unique Well No.
113843

County Morrison
Quad Upsala
Quad ID 177D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/13/1988
Update Date 03/26/2004
Received Date

Well Name LAVINE, WALTER

Township	Range	Dir	Section	Subsections	Elevation
127	31	W	15	DCCCDB	1199 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
38 ft.	38 ft.	10/19/1976

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 34 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	10	4	34 ft. and 38 ft.

Static Water Level
18 ft. from Land surface Date Measured 10/26/1976

PUMPING LEVEL (below land surface)
18 ft. after 1 hrs. pumping 7 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address

UPSALA MN 56384

Geological Material	Color	Hardness	From	To
CLAY	BROWN		0	20
CLAY	BLUE		20	28
SAND	GRAY		28	38

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☑ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Other, note in remarks
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 378342 **Y:** 5073374

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☑ Not Installed Date Installed 10/26/1976
Manufacturer's name MEYERS Model number H.P.33 HP 0.33 Volts 110
Length of drop Pipe 30 ft. Capacity 7 g.p.m Type Jet Material Plastic

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification

License Business Name	Lic. Or Reg. No.	Name of Driller
Eckstrom Well	49101	ECKSTROM, D.

First Bedrock
Last Strat Sand-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **113843** | Printed 6/29/2008 HE-01205-07

STATE_02822644

2222.1687

Minnesota Unique Well No.
143849

County Morrison
Quad Upsala
Quad ID 177D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/13/1988
Update Date 03/26/2004
Received Date

Well Name WEDIN, JOHN
Township Range Dir Section Subsections Elevation 1212 **ft.**
127 31 W 16 DABBBD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
132 **ft.**	99 **ft.**	09/27/1977

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 2 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 90 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	20	8	90 ft. and 99 ft.

Well Address
RR 1 BOX 11
BURTRUM MN 56318

Geological Material	Color	Hardness	From	To
CLAY	BROWN	HARD	0	22
CLAY	GRAY	HARD	22	88
SANDY SLATE	GRAY	SOFT	88	125
SLATE	GRAY	SOFT	125	132

Static Water Level
25 ft. from Land surface Date Measured 09/29/1977

PUMPING LEVEL (below land surface)
50 ft. after 2 hrs. pumping 18 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Cuttings from 0 to 70 ft.

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Information from neighbor
Date N/A

System *UTM - Nad83, Zone15, Meters* **X:** 377137 **Y:** 5074166

Nearest Known Source of Contamination
100 feet W direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☑ Not Installed Date Installed 09/29/1977
Manufacturer's name DEMPSTER Model number MF3-50 HP 0.5 Volts 230
Length of drop Pipe 63 ft. Capacity g.p.m Type Submersible Material Galvanized

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Traut Well 73157 ZUPAN, K.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Cretaceous Regolith
Last Strat Precambrian Crystalline Roc
Aquifer Cretaceous Regolith
Depth to Bedrock 88 **ft.**

County Well Index Online Report | **143849** | Printed 6/29/2008 HE-01205-07

STATE_02822645

2222.1688

Minnesota Unique Well No.
152745

County Morrison
Quad Upsala
Quad ID 177D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/13/1988
Update Date 03/26/2004
Received Date

Well Name SEURER, ROBERT
Township Range Dir Section Subsections Elevation 1210 **ft.**
127 31 W 22 ABBADA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
40 **ft.**	40 **ft.**	07/27/1978

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 1 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 36 ft.	10.89 lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	12	4	36 ft. and 40 ft.

Well Address
RR 1
HOLDINGFORD MN 56340

Geological Material	Color	Hardness	From	To
CLAY	BROWN	MEDIUM	0	21
CLAY	GRAY	MEDIUM	21	36
SAND	GRAY	SOFT	36	40

Static Water Level
21 ft. from Land surface Date Measured 07/27/1978

PUMPING LEVEL (below land surface)
30 ft. after 1 hrs. pumping 10 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☑ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Other, note in remarks
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 378459 **Y:** 5073247

Nearest Known Source of Contamination
70 feet N direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☑ Not Installed Date Installed 08/01/1978
Manufacturer's name WEBTROL Model number 102S58 HP 0.5 Volts 230
Length of drop Pipe 34 ft. Capacity 10 g.p.m
Type Submersible Material Plastic

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
North Star Drilling 48038 FLICKER, D.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **152745** | Printed 6/29/2008 HE-01205-07

STATE_02822646

2222.1689

Minnesota Unique Well No.

224489

County Morrison
Quad Upsala
Quad ID 177D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/13/1988
Update Date 03/26/2004
Received Date

Well Name CARLSEN, HAROLD

Township Range Dir Section Subsections Elevation 1207 **ft.**

127	31	W	15	DCDCCC	**Elevation Method**	7.5 minute topographic map (+/- 5 feet)

Well Depth	**Depth Completed**	**Date Well Completed**
43 **ft.**	43 **ft.**	09/30/1956

Drilling Method Cable Tool

Drilling Fluid
--

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 1 **ft.**

Casing Diameter	**Weight**	**Hole Diameter**
4 in. to 43 ft.	lbs./ft.	

Open Hole from 0 ft. to 0 ft.

Screen YES **Make** JOHNSON **Type**

Diameter	**Slot/Gauze**	**Length**	**Set Between**
5	30	3	ft. and ft.

Well Address

UPSALA MN 56384

Geological Material	**Color**	**Hardness**	**From**	**To**
CLAY			0	20
GRAVEL			20	43

Static Water Level
20 ft. from Land surface Date Measured 09/30/1956

PUMPING LEVEL (below land surface)
30 ft. after 2 hrs. pumping 10 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey

Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Other, note in remarks

Date N/A

System *UTM - Nad83, Zone15, Meters*

X: 378480 **Y:** 5073351

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

2222.1690

STATE_02822647

	Pump ☐ Not Installed Date Installed Manufacturer's name Model number ___ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material
	Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No
	Variance Was a variance granted from the MDII for this well? ☐ Yes ☐ No
First Bedrock **Last Strat** Gravel (+larger) **Aquifer** Quat. Buried Unconf. Aquife **Depth to Bedrock ft.**	**Well Contractor Certification** Minnesota Dept. of Natural Resources MNDNR ATKINSON, A. License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report	**224489**	Printed 6/29/2008 HE-01205-07

2222.1691

STATE_02822648

Minnesota Unique Well No.
673720

County Morrison
Quad Upsala
Quad ID 177D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 06/28/2002
Update Date 12/03/2007
Received Date

Well Name WOLLER, STEVE

Township Range Dir Section Subsections Elevation 1204 **ft.**

127	31	W	15	DABABB	**Elevation Method**	7.5 minute topographic map (+/- 5 feet)

Well Depth	**Depth Completed**	**Date Well Completed**
28 **ft.**	28 **ft.**	04/09/2002

Drilling Method Non-specified Rotary

Drilling Fluid Other

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	**Weight**	**Hole Diameter**
5 in. to 20 ft.	lbs./ft.	8.75 in. to 28 ft.

Open Hole from ft. to ft.

Screen YES **Make** BIG FOOT **Type** plastic

Diameter	**Slot/Gauze**	**Length**	**Set Between**
5	15	8	20 ft. and 28 ft.

Well Address
RR 1 50TH AV
UPSALA MN 56384

Geological Material	**Color**	**Hardness**	**From**	**To**
CLAY	BROWN		0	15
SAND	BROWN		15	28

Static Water Level
20 ft. from Land surface Date Measured 04/09/2002

PUMPING LEVEL (below land surface)
21 ft. after 2 hrs. pumping 20 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: High solids bentonite from 0 to 10 ft.

Located Minnesota Department of Health **Method** GPS SA Off (averaged)

Unique Number Verification N/A **Date** N/A

System *UTM - Nad83, Zone15, Meters* **X:** 378807 **Y:** 5074061

Nearest Known Source of Contamination
500 feet S direction Body of water type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

STATE_02822649

2222.1692

First Bedrock **Last Strat** Sand-brown	**Aquifer** **Depth to Bedrock ft.**	**Well Contractor Certification** Albany Wells 73667 THOMAS License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	**673720**	Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
674754

County Morrison
Quad Upsala
Quad ID 177D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 11/25/2002
Update Date 09/19/2007
Received Date

Well Name KOETTER, PAUL & KATHY
Township Range Dir Section Subsections Elevation 1204 **ft.**
127 31 W 15 BDC **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
16 **ft.**	16 **ft.**	04/22/2002

Drilling Method Auger (non-specified)

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Monitor well

Casing Type Plastic **Joint** Threaded **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
2 in. to 6 ft.	lbs./ft.	8 in. to 16 ft.

Open Hole from ft. to ft.

Screen YES **Make** MONOFLEX **Type** plastic

Diameter	Slot/Gauze	Length	Set Between
2	1	10	6 ft. and 16 ft.

Well Address
129 MAIN ST
UPSALA MN

Geological Material	Color	Hardness	From	To
SILTY SAND	BROWN	MEDIUM	0	7
CLAYEY SILTY SAND	BROWN	SOFT	7	12
SANDY CLAY	GRAY	MEDIUM	12	16

Static Water Level
8 ft. from Land surface Date Measured 04/22/2002

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☑ Casing Protection Y ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
MW-1

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement	from 0 to 4 ft.	2 bags
Grout Material: Bentonite	from 4 to 5 ft.	1 bags

Located Minnesota Department of Health **Method** GPS SA Off (averaged)
Unique Number Verification N/A **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 377939 **Y:** 5074176

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☑ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

STATE_02822651

2222.1694

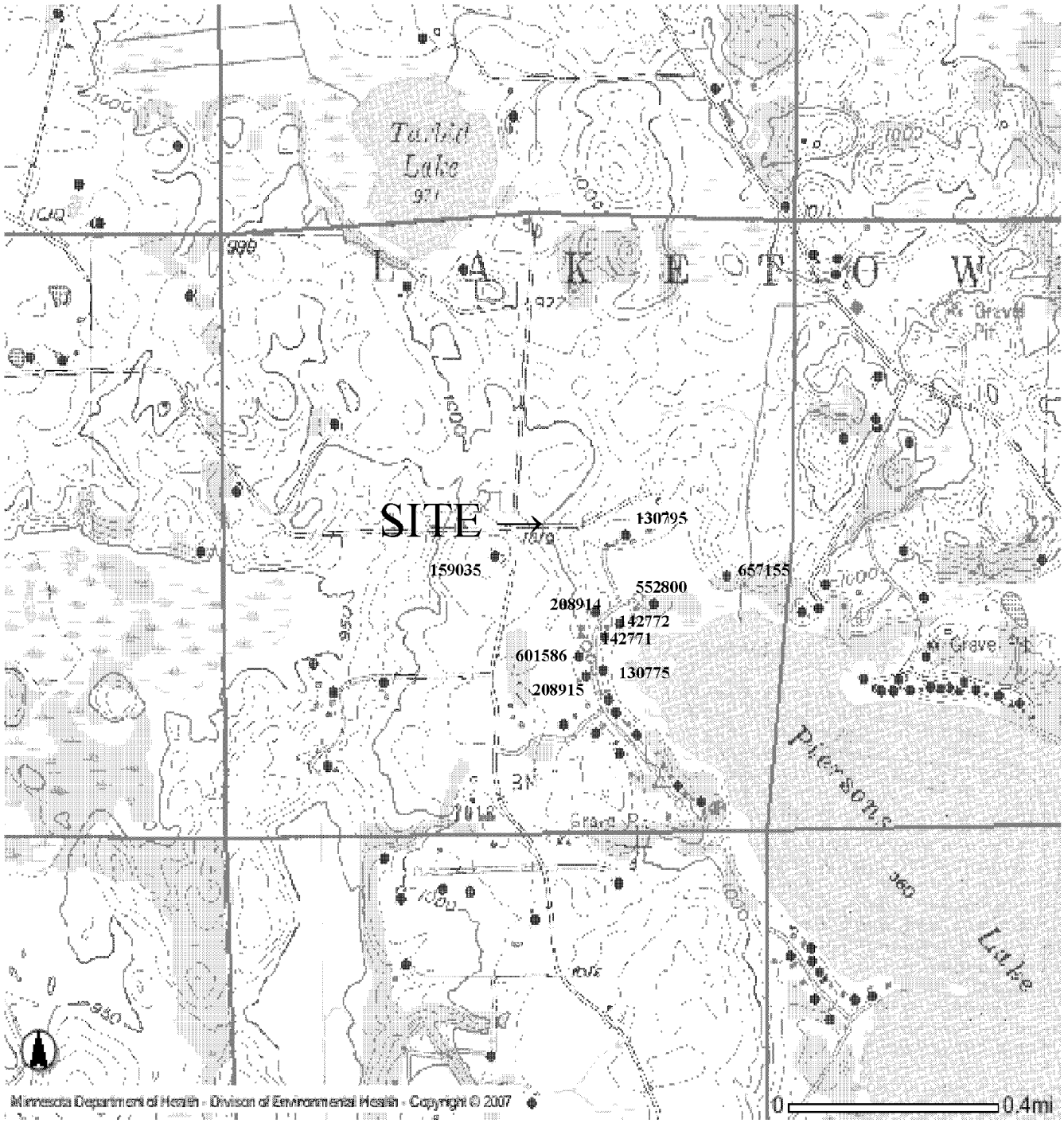
First Bedrock **Last Strat**	**Aquifer** **Depth to Bedrock ft.**	**Well Contractor Certification** Glacial Ridge Drilling M0173 RUCHTI, B. License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	**674754**	Printed 6/29/2008 HE-01205-07

SITE SUMMARY

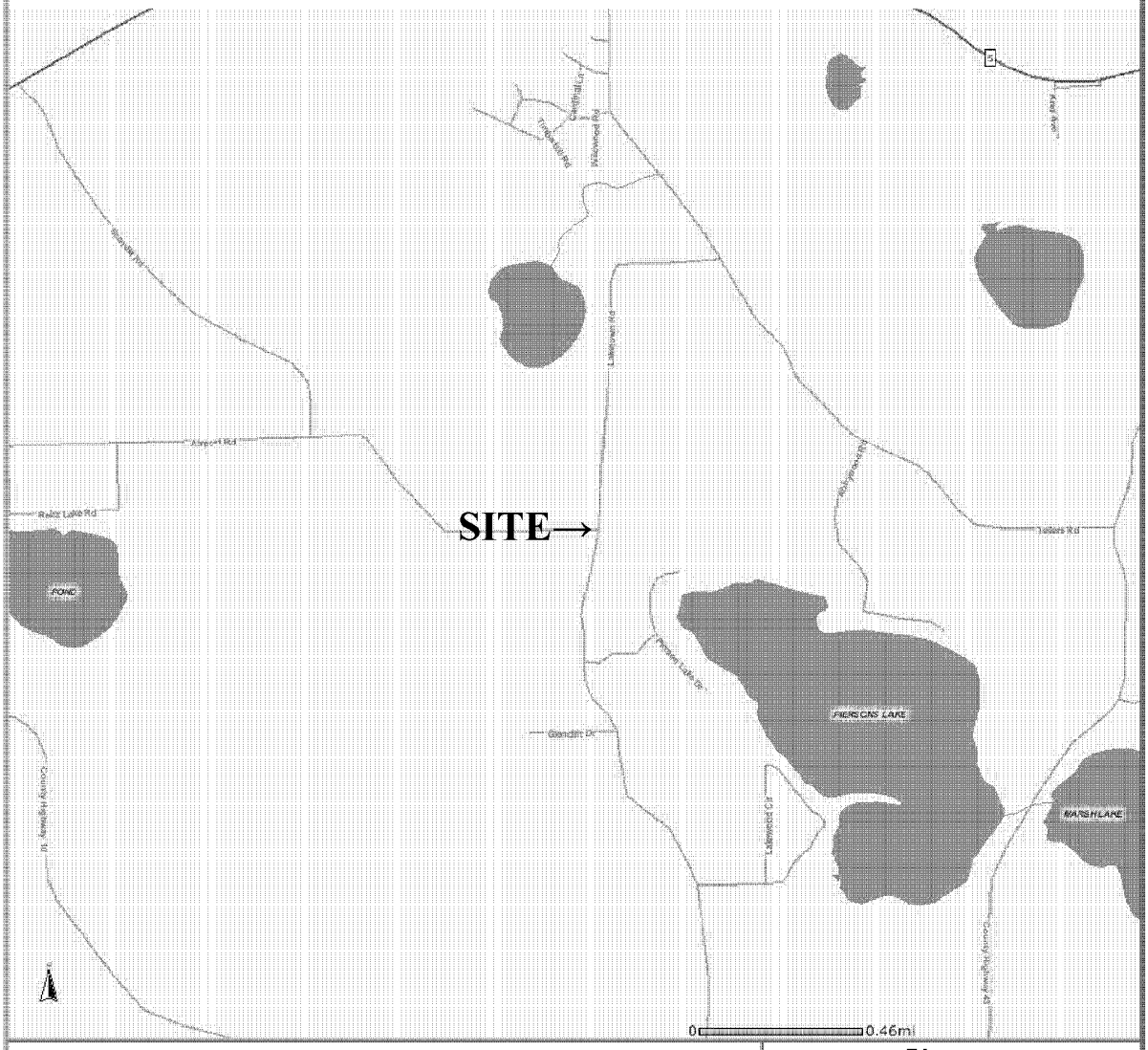
Site Name:	Waconia
Fire Department:	Waconia Fire Department 26 S. Maple Street Waconia, MN 55387
Site Contact:	Randall Sorenson, Fire Chief 952-442-2316 fire@waconia.org

Training Location:	7550 Airport Road; 8075 Paradise Lane; and 26 S. Maple Street, Waconia
Type of foam used in training:	AFFF: Angus AR-AFFF: Angus Class A: Angus
Foam training frequency:	Annually
Foam use per training event:	5 to 10 gallons
Spent foam destination:	Not specified
Annual foam use:	AFFF: less than 5 gallons AR-AFFF: less than 5 gallons Class A: more than 50 gallons
Nearest surface water:	Airport Road site: Piersons Lake, less than 1/4 mile southeast Paradise Lane and Maple Street sites: Lake Waconia, less than 1/4 mile north
Nearest wetland:	Airport Road site: less than 1/4 mile southeast Paradise Lane site: less than 1/4 mile northeast Maple Street site: 1/4 to 1/2 mile west
Nearest water well:	Less than 1/4 mile for all three training sites
Nearest Wellhead Protection Area:	Paradise Lane and Maple Street sites are located in Wellhead Protection Area
SITE RANKING:	**18**

WACONIA Airport Road CWI Well Map



Waconia Airport Road *What's In My Neighborhood*



Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

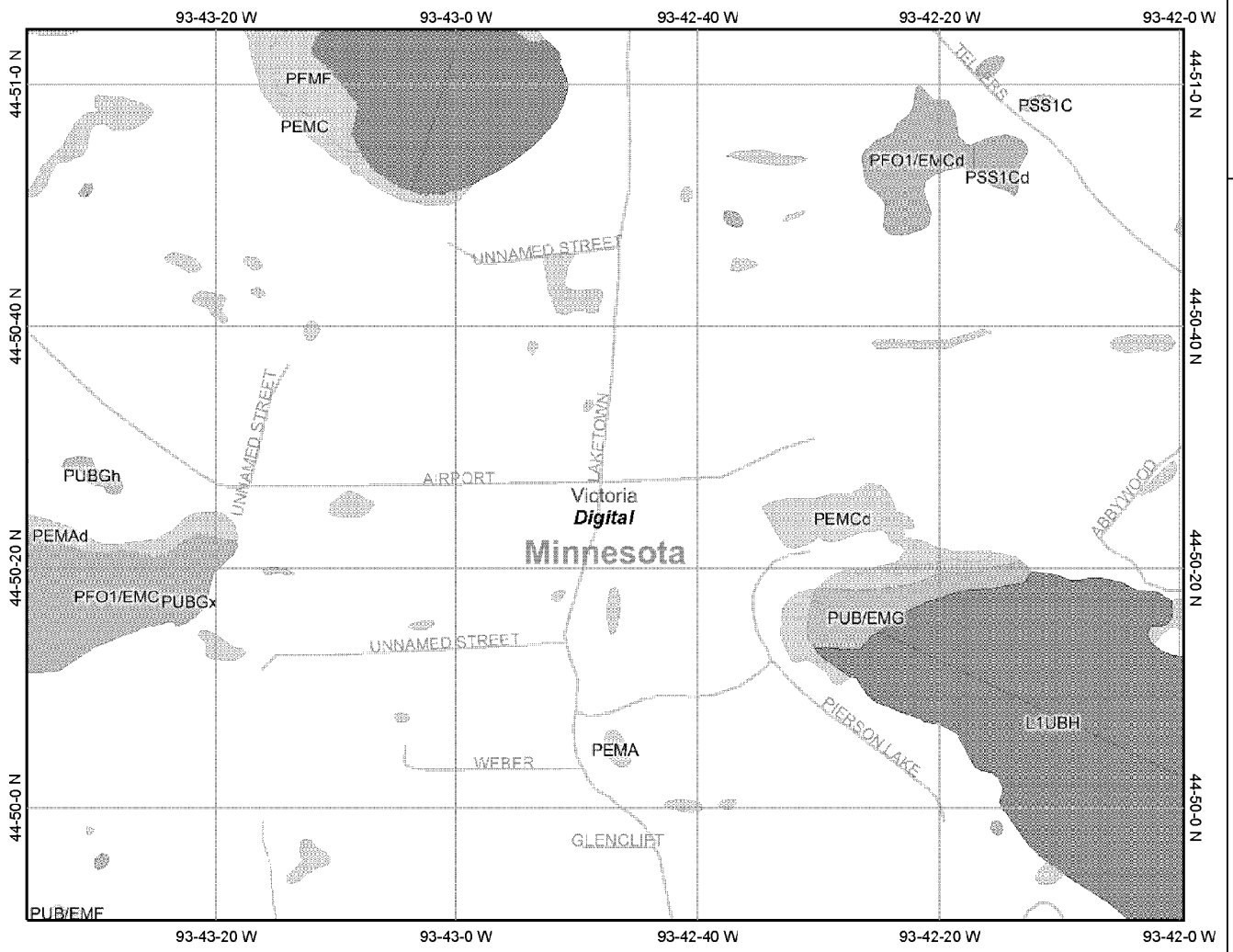
Minnesota Pollution Control Agency

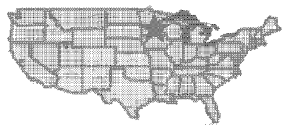
Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

STATE_02822655

Waconia Airport Rd Wetland Map





Legend

Ohio_wet_scan
- 0
- 1
- Out of range

Interstate

Major Roads
- Other Road
- Interstate
- State highway
- US highway

Roads

Cities

USGS Quad Index 24K

Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan

NHD Streams

Counties 100K

States 100K
- South America
- North America

Scale: 1:15,968

Map center: 44° 50' 28" N, 93° 42' 48" W

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

2222.1699

STATE_02822656

Minnesota Unique Well No.
130775

County Carver
Quad Victoria
Quad ID 105C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 09/19/1989
Update Date 05/08/2007
Received Date

Well Name GILLMEISTER, JAMES
Township Range Dir Section Subsections Elevation 985 **ft.**
116 24 W 21 DBDCDA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
167 **ft.**	167 **ft.**	01/24/1977

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 162 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	12	5	162 ft. and 167 ft.

Well Address
RR 2
CHASKA MN 55318

Geological Material	Color	Hardness	From	To
YELLOW CLAY	BROWN	SOFT	0	23
BLUE CLAY	GRAY	SOFT	23	86
CLAY & SAND	GRAY	SOFT	86	160
COARSE SAND	BROWN		160	167

Static Water Level
105 ft. from Land surface Date Measured 01/24/1977

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Bentonite from 0 to ft. 0

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)

Unique Number
Verification Information from neighbor
Date 05/08/2007

System *UTM - Nad83, Zone15, Meters*
X: 443889 **Y:** 4965144

Nearest Known Source of Contamination
70 feet W direction Septic tank/drain field type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 02/10/1977
Manufacturer's name AERMOTOR Model number __ HP 0.75 Volts 230
Length of drop Pipe 144 ft. Capacity 10 g.p.m Type Submersible Material Steel (black or low carbon)

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Leuthner Well Co. 10125 SCHMIEG, K.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-brown
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report

130775

Printed 6/29/2008
HE-01205-07

STATE_02822657

2222.1700

Minnesota Unique Well No.
130795

County Carver
Quad Victoria
Quad ID 105C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 09/19/1989
Update Date 11/30/1993
Received Date

Well Name WOLF, LYNN
Township Range Dir Section Subsections Elevation 990 **ft.**
116 24 W 21 DBAABB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
152 **ft.**	152 **ft.**	05/11/1977

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 1 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 147 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOIINSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	15	5	147 ft. and 152 ft.

Well Address
RR 2
CHASKA MN 55318

Geological Material	Color	Hardness	From	To
CLAY	YELLOW	SOFT	0	43
CLAY	BLUE	SOFT	43	142
SAND	BROWN	SOFT	142	152

Static Water Level
110 ft. from Land surface Date Measured 05/11/1977

PUMPING LEVEL (below land surface)
ft. after 2 hrs. pumping 40 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Grout Material: Bentonite from 0 to ft. 0

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Name on mailbox
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 443958 **Y:** 4965508

Nearest Known Source of Contamination
75 feet N direction Septic tank/drain field type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 05/29/1977
Manufacturer's name FLINT & WALLING Model number ___ HP 0.75 Volts 230
Length of drop Pipe 136 ft. Capacity 10 g.p.m Type Submersible Material Steel (black or low carbon)

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification

Leuthner Well Co.	10125	LEUTHNER, M.
License Business Name	Lic. Or Reg. No.	Name of Driller

First Bedrock
Last Strat Sand-brown
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock **ft.**

County Well Index Online Report | **130795** | Printed 6/29/2008 IIE-01205-07

STATE_02822658

2222.1701

Minnesota Unique Well No.
142771

County Carver
Quad Victoria
Quad ID 105C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 09/19/1989
Update Date 08/20/2007
Received Date

Well Name TOUNE, JIM
Township Range Dir Section Subsections Elevation 979 **ft.**
116 24 W 21 DBDBDD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
149 **ft.**	149 **ft.**	12/14/1977

Drilling Method Non-specified Rotary

Well Address
RR 2
CHASKA MN 55318

Geological Material	Color	Hardness	From	To
CLAY	YELLOW	SOFT	0	21
CLAY	BLUE	SOFT	21	92
SAND & CLAY	GRAY	SOFT	92	142
SAND	BROWN	SOFT	142	149

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 144 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	12	5	144 ft. and 149 ft.

Static Water Level
100 ft. from Land surface Date Measured 12/14/1977

PUMPING LEVEL (below land surface)
ft. after 2 hrs. pumping 30 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)

Unique Number
Verification Information from neighbor
Date 05/08/2007

System *UTM - Nad83, Zone15, Meters*
X: 443894 **Y:** 4965234

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Bentonite from 0 to ft. 0

Nearest Known Source of Contamination
55 feet W direction Tanks type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 01/10/1978
Manufacturer's name FLINT & WALLING Model number ___ HP 0.75 Volts 230
Length of drop Pipe 123 ft. Capacity 10 g.p.m
Type Submersible Material Steel (black or low carbon)

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification

Leuthner Well Co.	10125	LEUTHNER, R.
License Business Name	Lic. Or Reg. No.	Name of Driller

First Bedrock
Last Strat Sand-brown
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **142771** | Printed 6/29/2008 HE-01205-07

STATE_02822659

2222.1702

Minnesota Unique Well No.
142772

County Carver
Quad Victoria
Quad ID 105C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 09/19/1989
Update Date 08/20/2007
Received Date

Well Name JERECZEK, LAURENCE
Township Range Dir Section Subsections Elevation 968 **ft.**
116 24 W 21 DBDACB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
144 **ft.**	144 **ft.**	11/29/1977

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 139 ft.	lbs./ft.	

Well Address
RR 2
CHASKA MN 55318

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	12	5	139 ft. and 144 ft.

Geological Material	Color	Hardness	From	To
CLAY	YELLOW	SOFT	0	18
CLAY	BLUE	SOFT	18	87
CLAY & SAND	GRAY	SOFT	87	136
SAND	BROWN	SOFT	136	144

Static Water Level
97 ft. from Land surface Date Measured 11/29/1977

PUMPING LEVEL (below land surface)
ft. after 2 hrs. pumping 30 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Bentonite from 0 to ft. 0

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number
Verification Information from neighbor
Date N/A

System *UTM - Nad83, Zone15, Meters* **X:** 443940 **Y:** 4965269

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 11/29/1977
Manufacturer's name FLINT & WALLING Model number __ HP 0.75 Volts 230
Length of drop Pipe 120 ft. Capacity 10 g.p.m
Type Submersible Material Steel (black or low carbon)

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Leuthner Well Co. 10125 LEUTHNER, M.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-brown
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report **142772** Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
159035

County Carver
Quad Victoria
Quad ID 105C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 09/19/1989
Update Date 11/29/1993
Received Date

Well Name WORM, MELVIN
Township Range Dir Section Subsections Elevation 1033 **ft.**
116 24 W 21 CAAACA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
196 **ft.**	196 **ft.**	08/14/1979

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 1 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 191 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	12	5	191 ft. and 196 ft.

Static Water Level
153 ft. from Land surface Date Measured 08/14/1979

PUMPING LEVEL (below land surface)
ft. after 2 hrs. pumping 30 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
RR 1
WACONIA MN 55387

Geological Material	Color	Hardness	From	To
YELLOW CLAY	BROWN	SOFT	0	38
CLAY & SAND	BROWN	SOFT	38	47
BLUE CLAY	GRAY	SOFT	47	79
CLAY & SAND	GRAY	SOFT	79	180
SAND	GRAY	SOFT	180	184
SAND & CLAY	GRAY	SOFT	184	188
SAND	GRAY	SOFT	188	196

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Bentonite from 0 to ft. 0

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Plat Book
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 443557 **Y:** 4965451

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 08/21/1979
Manufacturer's name FLINT & WALLING Model number ___ HP 0.75 Volts 230
Length of drop Pipe 182 ft. Capacity 10 g.p.m
Type Submersible Material Steel (black or low carbon)

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Leuthner Well Co. 10125 LEUTHNER, M.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report **159035** Printed 6/29/2008 HE-01205-07

STATE_02822661

2222.1704

Minnesota Unique Well No.
208914

County Carver
Quad Victoria
Quad ID 105C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 05/26/1988
Update Date 05/08/2007
Received Date

Well Name HONEBRINK, ROGER
Township Range Dir Section Subsections Elevation 982 **ft.**
116 24 W 21 DBDBAB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
154 ft.	154 ft.	03/17/1973

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 154 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between
2	12	5	149 ft. and 154 ft.

Geological Material	Color	Hardness	From	To
YELLOW CLAY	BROWN		0	10
BLUE CLAY	GRAY		10	82
CLAY & SAND	GRAY		82	93
CLAY	GRAY		93	101
CLAY & SAND	GRAY		101	136
SAND & CLAY	GRAY		136	144
WATER SAND	BROWN		144	154

Static Water Level
105 ft. from Land surface Date Measured 03/17/1973

PUMPING LEVEL (below land surface)
0 ft. after hrs. pumping 30 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Information from owner
Date 05/08/2007
System *UTM - Nad83, Zone15, Meters*
X: 443866 **Y:** 4965301

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Leuthner Well Co. 10125
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-brown
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock **ft.**

County Well Index Online Report

208914

Printed 6/29/2008
HE-01205-07

Minnesota Unique Well No.
208915

County Carver
Quad Victoria
Quad ID 105C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 05/26/1988
Update Date 05/08/2007
Received Date

Well Name ERBEL, DAVID
Township Range Dir Section Subsections Elevation 1005 **ft.**
116 24 W 21 DBDCCD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
187 ft.	187 ft.	08/18/1973

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 182 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	12	5	182 ft. and 187 ft.

Geological Material	Color	Hardness	From	To
YELLOW CLAY	BROWN		0	37
BLUE CLAY	GRAY		37	120
SAND & CLAY	GRAY		120	138
CLAY	GRAY		138	178
WATER SAND	BROWN		178	187

Static Water Level
145 ft. from Land surface Date Measured 08/18/1973

PUMPING LEVEL (below land surface)
0 ft. after hrs. pumping 25 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Information from owner
Date 05/08/2007
System *UTM - Nad83, Zone15, Meters*
X: 443836 **Y:** 4965129

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Leuthner Well Co. 10125 SCHMIEG, K.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-brown
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **208915** | Printed 6/29/2008 HE-01205-07

STATE_02822663

2222.1706

Minnesota Unique Well No.
552800

County Carver
Quad Victoria
Quad ID 105C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 06/11/1996
Update Date 08/22/2007
Received Date

Well Name NORTON, CHARLES JR.
Township Range Dir Section Subsections Elevation 983 **ft.**
116 24 W 21 DABCCD **Elevation Method** CALC FROM 2-FOOT COUNTY DEM

Well Depth	Depth Completed	Date Well Completed
145 **ft.**	145 **ft.**	10/05/1994

Drilling Method Non-specified Rotary

Drilling Fluid Water

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 140 ft.	11 lbs./ft.	6 in. to 140 ft.

Well Address
9205 PIERSON LAKE DR
CHASKA MN

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
5	10	7	140 ft. and 145 ft.

Geological Material	Color	Hardness	From	To
CLAY	BROWN	SOFT	0	36
SANDY CLAY	BLU/GRN	SOFT	36	54
CLAY	BLU/GRN	HARD	54	132
SAND	BROWN	MEDIUM	132	145

Static Water Level
101 ft. from Land surface Date Measured 10/05/1994

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Bentonite from 0 to 140 ft. 4 bags

Located Carver Land & Water Services **Method** Digitization (Screen) - Map (1:24,000)
Unique Number Verification Address verification **Date** 05/08/2007
System *UTM - Nad83, Zone15, Meters* **X:** 444045 **Y:** 4965323

Nearest Known Source of Contamination
51 feet South East direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 10/06/1994
Manufacturer's name AERMOTOR Model number A12-100 HP 1 Volts 220
Length of drop Pipe 129 ft. Capacity 12 g.p.m Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Hartmann Well Co. 40174 HARTMANN, K.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-brown
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock **ft.**

County Well Index Online Report

552800

Printed 6/29/2008
HE-01205-07

STATE_02822664

Minnesota Unique Well No.
601586

County Carver
Quad Victoria
Quad ID 105C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 01/03/2001
Update Date 08/22/2007
Received Date

Well Name MONROE, STEVE

Township	Range	Dir	Section	Subsections	Elevation
116	24	W	21	DBDCBD	1014 ft.

Elevation Method CALC FROM 2-FOOT COUNTY DEM

Well Depth	Depth Completed	Date Well Completed
196 ft.	196 ft.	08/12/1997

Drilling Method Non-specified Rotary

Well Address
9260 PIERSON LAKE DR
CHASKA MN

Geological Material	Color	Hardness	From	To
TOP SOIL	BLACK	SOFT	0	3
CLAY	YELLOW	SOFT	3	30
CLAY	BLUE	SOFT	30	130
CLAY GRAVEL	BLUE	SOFT	130	185
SAND			185	196

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** Unknown **Drive Shoe?** ☐ Yes ☑ No **Above/Below** ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 191 ft.	lbs./ft.	6.5 in. to 196 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	22	5	191 ft. and 196 ft.

Static Water Level
130 ft. from Land surface Date Measured 08/12/1997

PUMPING LEVEL (below land surface)
162 ft. after 1 hrs. pumping 30 g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: High solids bentonite from 6 to 191 ft. 2 yrds.

Located Carver Land & Water Services

Method Digitization (Screen) - Map (1:24,000)

Unique Number Verification Address verification

Date 05/08/2007

System *UTM - Nad83, Zone15, Meters*

X: 443814 **Y:** 4965182

Nearest Known Source of Contamination
100 feet W direction Septic tank/drain field type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name STA RITE Model number ___ HP 0.75 Volts 220
Length of drop Pipe 162 ft. Capacity 10 g.p.m
Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

First Bedrock
Last Strat Sand

Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

Well Contractor Certification
Braunwarth Well Co. 10068 BRAUNWARTH, M
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report	601586	Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
657155

County Carver
Quad Victoria
Quad ID 105C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 12/28/2001
Update Date 08/22/2007
Received Date

Well Name MOHN, STEVEN
Township Range Dir Section Subsections Elevation 985 **ft.**
116 24 W 21 DAACBD **Elevation Method** CALC FROM 2-FOOT COUNTY DEM

Well Depth	Depth Completed	Date Well Completed
153 **ft.**	153 **ft.**	03/01/2001

Drilling Method Non-specified Rotary

Drilling Fluid Qwik gel

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 148 ft.	11 lbs./ft.	8.5 in. to 30 ft.
		6.25 in. to 153 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	15	5	148 ft. and 153 ft.

Well Address
9204 PIERSON LAKE DR
CHASKA MN

Geological Material	Color	Hardness	From	To
CLAY	BROWN	SOFT	0	29
CLAY	GRAY	SOFT	29	84
CLAY & SAND	GRAY	SOFT	84	119
SAND & CLAY	BROWN	SOFT	119	143
SAND	BROWN	SOFT	143	153

Static Water Level
115 ft. from Land surface Date Measured 03/01/2001

PUMPING LEVEL (below land surface)
120 ft. after 1 hrs. pumping 30 g.p.m.

Well Head Completion
Pitless adapter manufacturer WHITEWATER Model SU 45.5
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: High solids bentonite from 0 to 30 ft. 3 bags

Located Carver Land & Water Services **Method** Digitization (Screen) - Map (1:24,000)
Unique Number Verification Address verification **Date** 05/08/2007
System *UTM - Nad83, Zone15, Meters* **X:** 444268 **Y:** 4965398

Nearest Known Source of Contamination
80 feet N direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name RED JACKET Model number ___ HP 0.75 Volts 220
Length of drop Pipe 147 ft. Capacity 10 g.p.m Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification

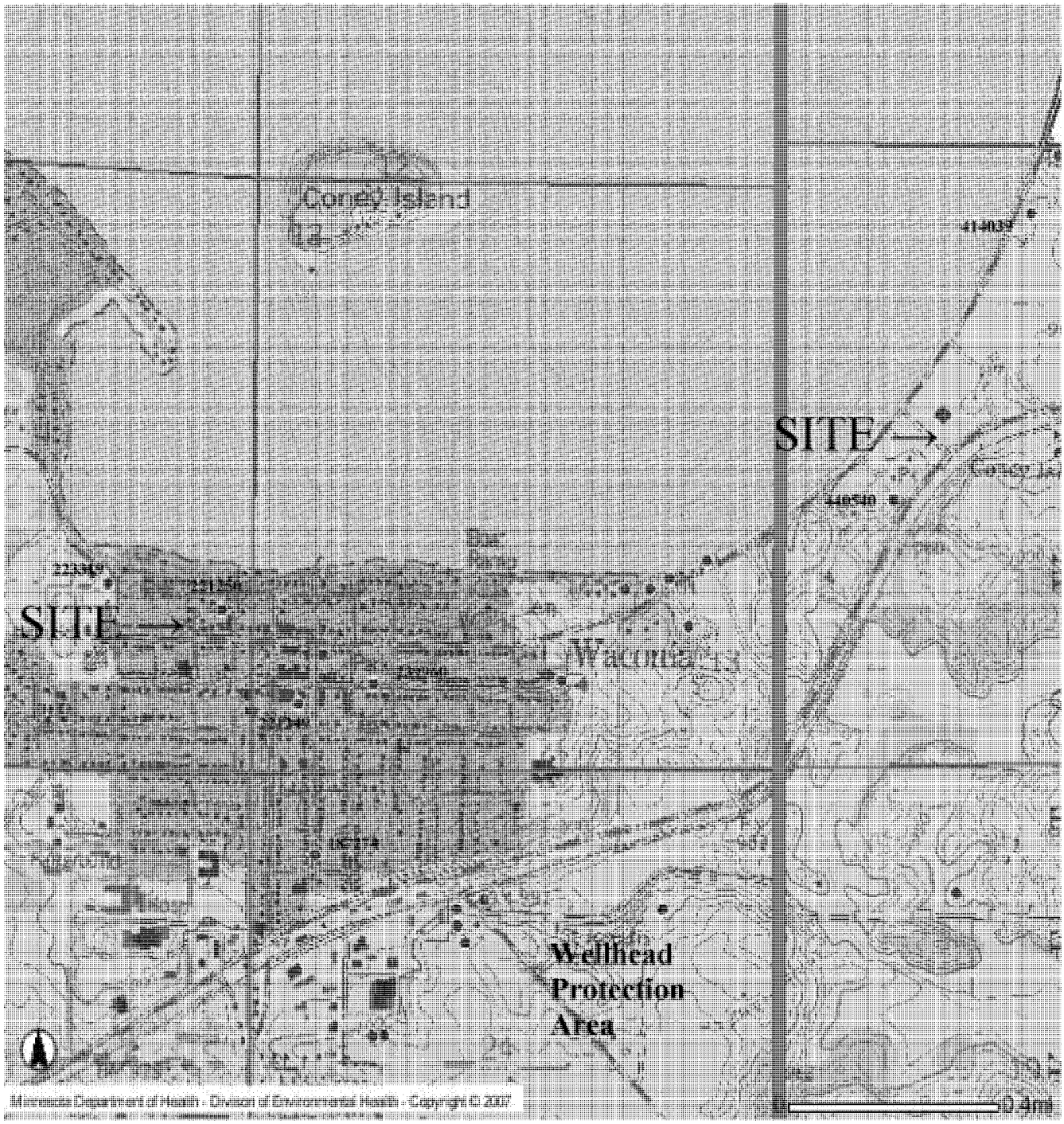
License Business Name	Lic. Or Reg. No.	Name of Driller
Leuthner Well Co.	10125	LEUTHNER, M.

First Bedrock
Last Strat Sand-brown
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **657155** | Printed 6/29/2008 HE-01205-07

STATE_02822667

WACONIA Maple Street and Paradise Lane CWI Well Map



Waconia Maple-Paradise *What's In My Neighborhood*



Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

Minnesota Pollution Control Agency

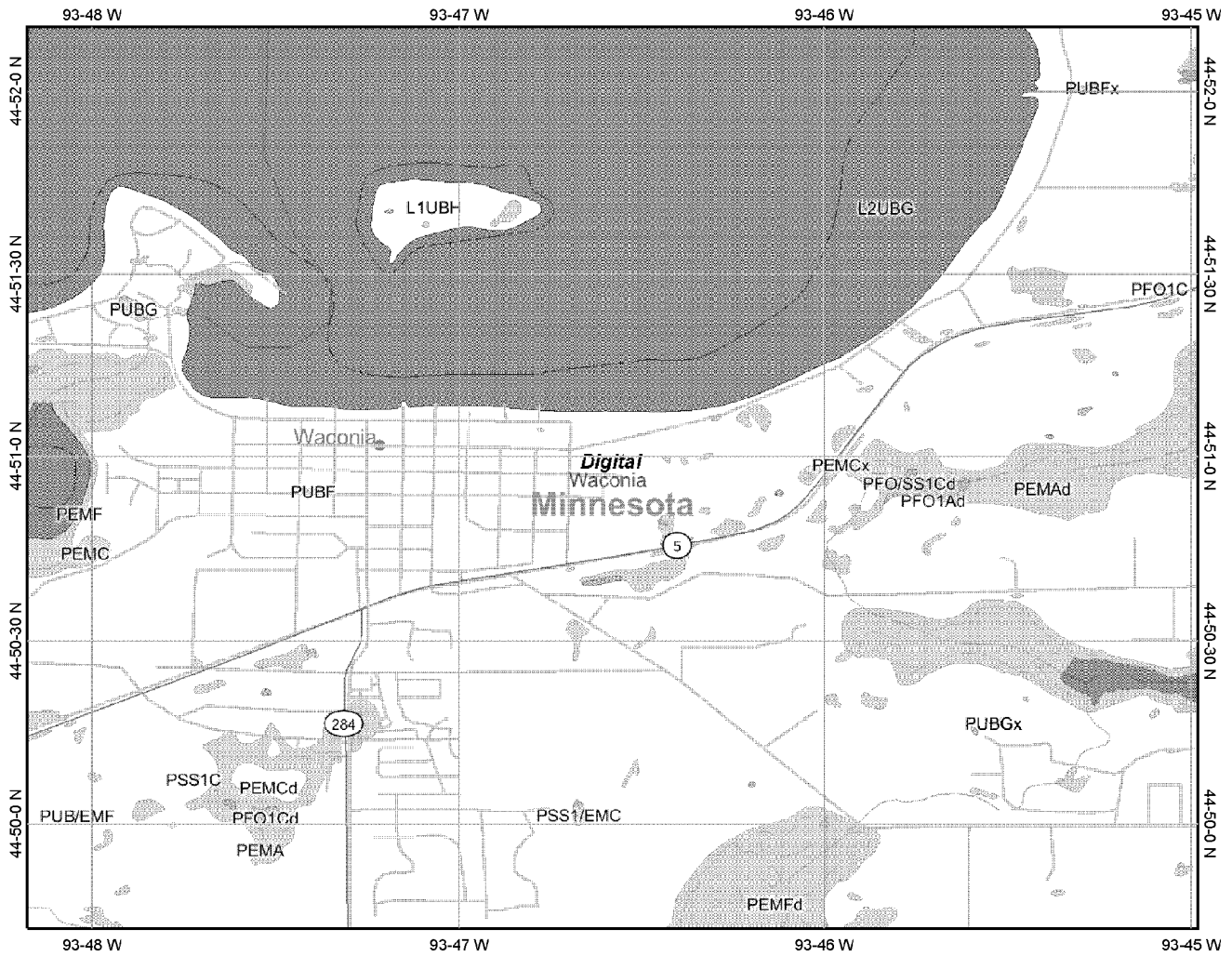
Sites

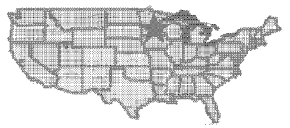
- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

STATE_02822669

2222.1712

Waconia Maple-Paradise Wetland Map





Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:31,936

Map center: 44° 50' 57" N, 93° 46' 35" W

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

2222.1713

STATE_02822670

Minnesota Unique Well No.
187274

County Carver
Quad Waconia
Quad ID 106D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 05/26/1988
Update Date 07/18/2007
Received Date

Well Name MAAS, RANDY

Township	Range	Dir	Section	Subsections	Elevation
116	25	W	24	BBCAAA	1035 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
132 ft.	132 ft.	05/30/1984

Drilling Method Non-specified Rotary

Well Address
425 ELM ST S
WACONIA MN 55387

Geological Material	Color	Hardness	From	To
TOP SOIL	BLACK	SOFT	0	3
CLAY	YELLOW	SOFT	3	23
CLAY	BLUE	SOFT	23	70
CLAY & GRAVEL	BLUE	SOFT	70	127
SAND	GRAY		127	132

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 127 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
2		5	127 ft. and 132 ft.

Static Water Level
60 ft. from Land surface Date Measured 05/30/1984

PUMPING LEVEL (below land surface)
127 ft. after 1.5 hrs. pumping 15 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
425 ELM ST.SO.

Located Minnesota Geological Survey **Method** Digitization (Screen) - Map (1:24,000)
Unique Number Verification Address verification **Date** 03/20/2007
System *UTM - Nad83, Zone15, Meters* **X:** 437892 **Y:** 4966055

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Bentonite from 0 to 132 ft. 0

Nearest Known Source of Contamination
75 feet E direction Septic tank/drain field type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 05/30/1984
Manufacturer's name TAIT Model number __ HP 0.75 Volts 220
Length of drop Pipe 72 ft. Capacity 12 g.p.m
Type Submersible Material Galvanized

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Braunwarth Well Co. 10068 BRAUNWARTH, M
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **187274** | Printed 6/29/2008 HE-01205-07

STATE_02822671

2222.1714

Minnesota Unique Well No.
221249

County Carver
Quad Waconia
Quad ID 106D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 05/26/1988
Update Date 02/19/2008
Received Date

Well Name WACONIA 1
Township Range Dir Section Subsections Elevation 1035 **ft.**
116 25 W 13 CCCABA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
847 **ft.**	847 **ft.**	00/00/1924

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Well Address
WACONIA MN 55387

Geological Material	Color	Hardness	From	To
CLAY			0	55
SANDY CLAY			55	65
CLAY			65	139
BOULDER			139	140
CLAY			140	214
SAND			214	304
GRAVEL			304	462
GRAVEL			462	465
RED SHALE			465	490
DARK GREEN SHALE			490	501
LIGHT GREEN SHALE			501	526
LIGHT GREEN SHALE			526	527
SANDSTONE			527	668
GRAY SHALE			668	670
HINCKLEY SANDSTONE			670	676
HINCKLEY SANDSTONE			676	690
RED SHALE			690	847

Casing Diameter	Weight	Hole Diameter
16 in. to 466 ft.	lbs./ft.	16 in. to 547 ft.
12 in. to 547 ft.	lbs./ft.	12 in. to 847 ft.

Open Hole from 547 ft. to 847 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
137 ft. from Land surface Date Measured 1938

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
16 IN. CASING IS SLOTTED FROM 398-437 FEET OBSERVERED FROM TV.
GAMMA LOGGED 10-7-1997.
WELL LOCATED IN BACK OF CITY HALL.
TV LOG 16 IN. SEEN TO 442 FT. 12 IN. CASING 442-549 FT.
WELL SEALED 10-15-1997 BY 27058.
ORIGINAL USE PC - COMMUNITY SUPPLY.

Grouting Information Well Grouted? ☐ Yes ☐ No

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Located Minnesota Geological Survey **Method** GPS Differentially Corrected
Unique Number Verification Information from owner **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 437841 **Y:** 4966462

2222.1715

STATE_02822672

	Pump ☐ Not Installed Date Installed Manufacturer's name Model number ___ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material
	Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No
	Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No
Borehole Geophysics Yes **First Bedrock** Eau Claire **Aquifer** Mt.Simon-Fond du lac **Last Strat** Fond Du Lac Formation **Depth to Bedrock** 462 **ft.**	**Well Contractor Certification** Mccarthy Well Co. 27022 License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	**221249** Printed 6/29/2008 HE-01205-07

2222.1716

STATE_02822673

Minnesota Unique Well No.
221250

County Carver
Quad
Quad ID 106

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 05/26/1988
Update Date 07/18/2007
Received Date

Well Name WACONIA CREAMERY 1
Township Range Dir Section Subsections Elevation 980 **ft.**
116 25 W 14 DDAABB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
230 ft.	230 ft.	00/00/1933

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Industrial

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter

Open Hole from ft. to ft.

Screen YES **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
1ST & MAPLE ST.
WACONIA MN 55387

Geological Material	Color	Hardness	From	To
NO RECORD			0	230

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Information from neighbor
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 437606 **Y:** 4966716

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 00/00/1933
Manufacturer's name Model number ___ HP 0 Volts
Length of drop Pipe _ft. Capacity 325 g.p.m Type Material

2222.1717

STATE_02822674

	Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No
	Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No
First Bedrock **Last Strat** Unknown deposit type **Aquifer** Quat. Buried Artes. Aquifer **Depth to Bedrock** ft.	**Well Contractor Certification** Mueller Well Co. 96460 License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report	**221250**	Printed 6/29/2008 HE-01205-07

2222.1718

STATE_02822675

Minnesota Unique Well No.
223319

County Carver
Quad
Quad ID 106

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 05/26/1988
Update Date 02/13/2002
Received Date

Well Name WACONIA CREAMERY 2
Township Range Dir Section Subsections Elevation 1015 **ft.**
116 25 W 14 DBDACD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
252 ft.	252 ft.	00/00/1957

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Industrial

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
16 in. to 222 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON EVERDUR **Type**

Diameter	Slot/Gauze	Length	Set Between
12		30	222 ft. and 252 ft.

Static Water Level
90 ft. from Land surface Date Measured 1957

PUMPING LEVEL (below land surface)
99 ft. after hrs. pumping 530 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
WACONIA MN 55387

Geological Material	Color	Hardness	From	To
YELLOW CLAY			0	41
BLUE CLAY			41	215
FINE SAND			215	222
COARSE SAND			222	252

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number
Verification Information from neighbor
Date N/A
System *UTM - Nad83, Zone15, Meters* **X:** 437257 **Y:** 4966787

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 00/00/1957
Manufacturer's name Model number __ HP 0 Volts
Length of drop Pipe _ft. Capacity 500 g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Mueller Well Co. 96460
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **223319** | Printed 6/29/2008 HE-01205-07

STATE_02822676

Minnesota Unique Well No.
239960

County Carver
Quad Waconia
Quad ID 106D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 06/23/1992
Update Date 02/19/2008
Received Date

Well Name WACONIA 2
Township Range Dir Section Subsections Elevation 1054 **ft.**
116 25 W 13 CCADDB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
480 **ft.**	480 **ft.**	00/00/1949

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
12 in. to ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
WACONIA MN 55387

Geological Material	Color	Hardness	From	To
GLACIAL DRIFT			0	480

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
GAMMA LOGGED 9/26/97.
WELL SEALED 11-12-1997 BY 27058
ORIGINAL USE MU - MUNICIPAL

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:12,000)
Unique Number Verification Information from owner
Date 08/24/2004
System *UTM - Nad83, Zone15, Meters*
X: 438072 **Y:** 4966516

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP 0 Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Borehole Geophysics Yes
First Bedrock **Aquifer**
Last Strat Unknown deposit type **Depth to Bedrock ft.**

Well Contractor Certification
Mccarthy Well Co. 27022
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report | **239960** | Printed 6/29/2008 HE-01205-07

STATE_02822677

2222.1720

Minnesota Unique Well No.
414039

County Carver
Quad Waconia
Quad ID 106D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 05/26/1988
Update Date 08/22/2007
Received Date

Well Name ANDERSON, DON
Township Range Dir Section Subsections Elevation 975 **ft.**
116 24 W 18 BAACDB **Elevation Method** CALC FROM 2-FOOT COUNTY DEM

Well Depth	Depth Completed	Date Well Completed
151 **ft.**	151 **ft.**	07/01/1985

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 146 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	15	5	146 ft. and 151 ft.

Well Address
7925 30 CR
WACONIA MN

Geological Material	Color	Hardness	From	To
YELLOW CLAY	BROWN	SOFT	0	24
BLUE CLAY	GRAY	SOFT	24	96
CLAY & SAND	GRAY	SOFT	96	141
SAND	GRAY	SOFT	141	151

Static Water Level
93 ft. from Land surface Date Measured 07/01/1985

PUMPING LEVEL (below land surface)
ft. after hrs. pumping 30 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Bentonite from to ft.

Located Carver Land & Water Services **Method** Digitization (Screen) - Map (1:24,000)
Unique Number Verification Tax Records **Date** 05/03/2007
System *UTM - Nad83, Zone15, Meters* **X:** 440093 **Y:** 4967782

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name PIONEER Model number ___ HP 0.75 Volts 220
Length of drop Pipe 126 ft. Capacity 10 g.p.m
Type Submersible Material Steel (black or low carbon)

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Leuthner Well Co. 10125 LEUTHNER, M.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report **414039** Printed 6/29/2008 HE-01205-07

STATE_02822678

2222.1721

Minnesota Unique Well No.
440540

County Carver
Quad Waconia
Quad ID 106D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 07/25/1991
Update Date 05/03/2007
Received Date

Well Name FRANTZ, LEON

Township	Range	Dir	Section	Subsections	Elevation
116	24	W	18	CBADBB	975 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
126 ft.	126 ft.	05/26/1988

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 1 ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 126 ft.	lbs./ft.	4 in. to 126 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	18	5	121 ft. and 126 ft.

Well Address
9550 5 HY
WACONIA MN 55387

Geological Material	Color	Hardness	From	To
TOP SOIL	BLACK	SOFT	0	3
CLAY	YELLOW	SOFT	3	15
CLAY	BLUE	SOFT	15	118
SAND			118	126

Static Water Level
90 ft. from Land surface Date Measured 05/26/1988

PUMPING LEVEL (below land surface)
126 ft. after 0.5 hrs. pumping 25 g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Bentonite from 0 to ft. 0

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Information from owner
Date 09/01/2004
System *UTM - Nad83, Zone15, Meters*
X: 439669 **Y:** 4967011

Nearest Known Source of Contamination
75 feet S direction Septic tank/drain field type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 05/26/1988
Manufacturer's name JACUZZI Model number ___ HP 0.75 Volts 220
Length of drop Pipe 108 ft. Capacity 11 g.p.m
Type Submersible Material Galvanized

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Braunwarth Well Co. 10068 BRAUNWARTH, M
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report **440540** Printed 6/29/2008 IIE-01205-07

STATE_02822679

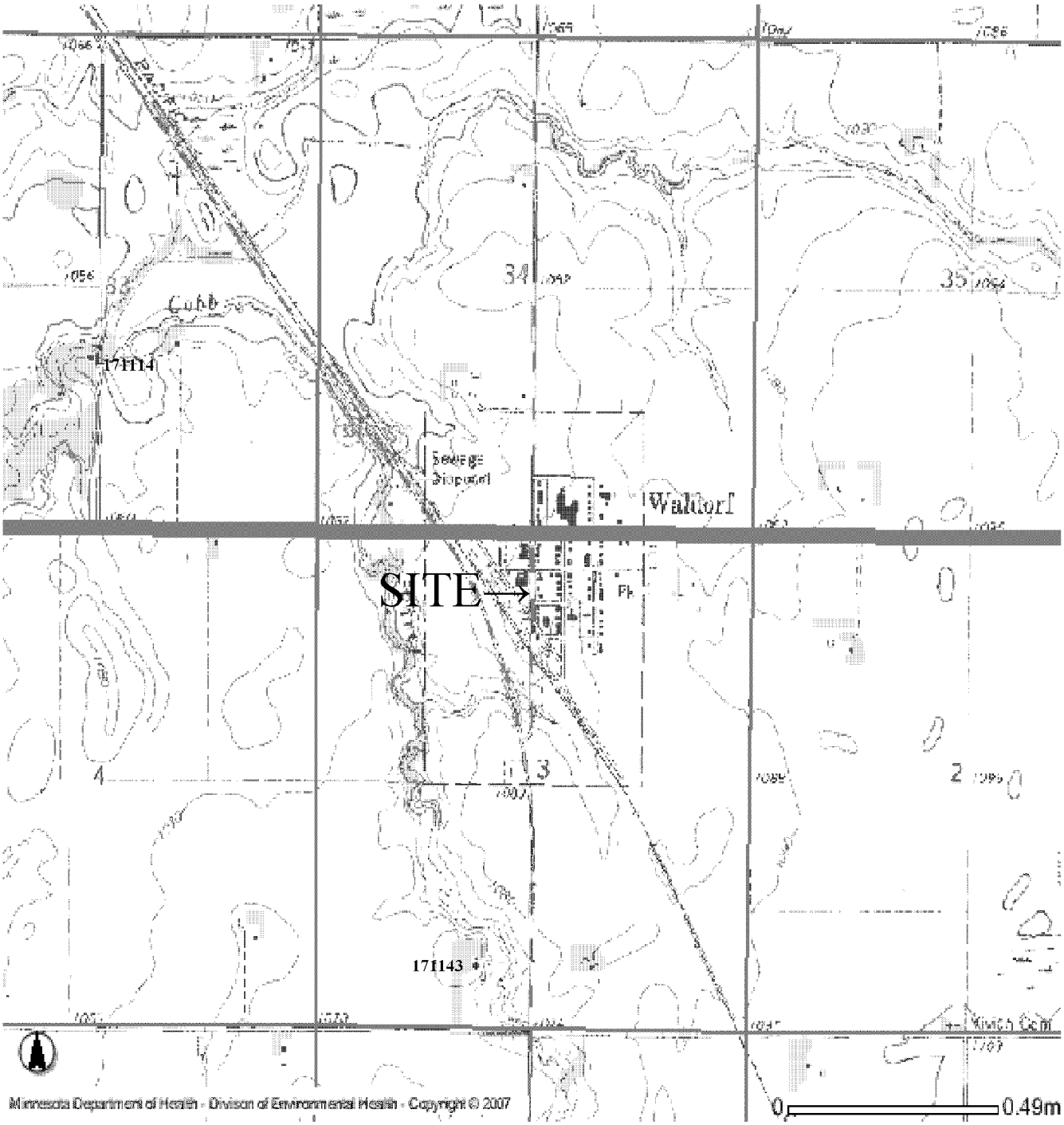
2222.1722

SITE SUMMARY

Site Name:	Waldorf
Fire Department:	Waldorf Fire Department PO Box 8 Waldorf, MN 56091
Site Contact:	Adam Gruskreutz, Fire Chief 507-239-2248 (fire hall) 507-239-0124 (home) adamg@myclearwave.net

Training Location:	Main Street, Waldorf
Type of foam used in training:	AFFF: Royal Chemical
Foam training frequency:	Bi-monthly
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Ground, storm sewer
Annual foam use:	AFFF: 5 gallons
Nearest surface water:	Cobb River, 1/4 to 1/3 mile west
Nearest wetland:	Approximately 1 mile northwest
Karst Area:	Training site is located in a covered karst area
Nearest water well:	3/4 to 1 mile south
Nearest Wellhead Protection Area:	More than 1 mile
SITE RANKING:	**11**

WALDORF CWI Well Map



STATE_02822681

2222.1724

Waldorf *What's In My Neighborhood* Map



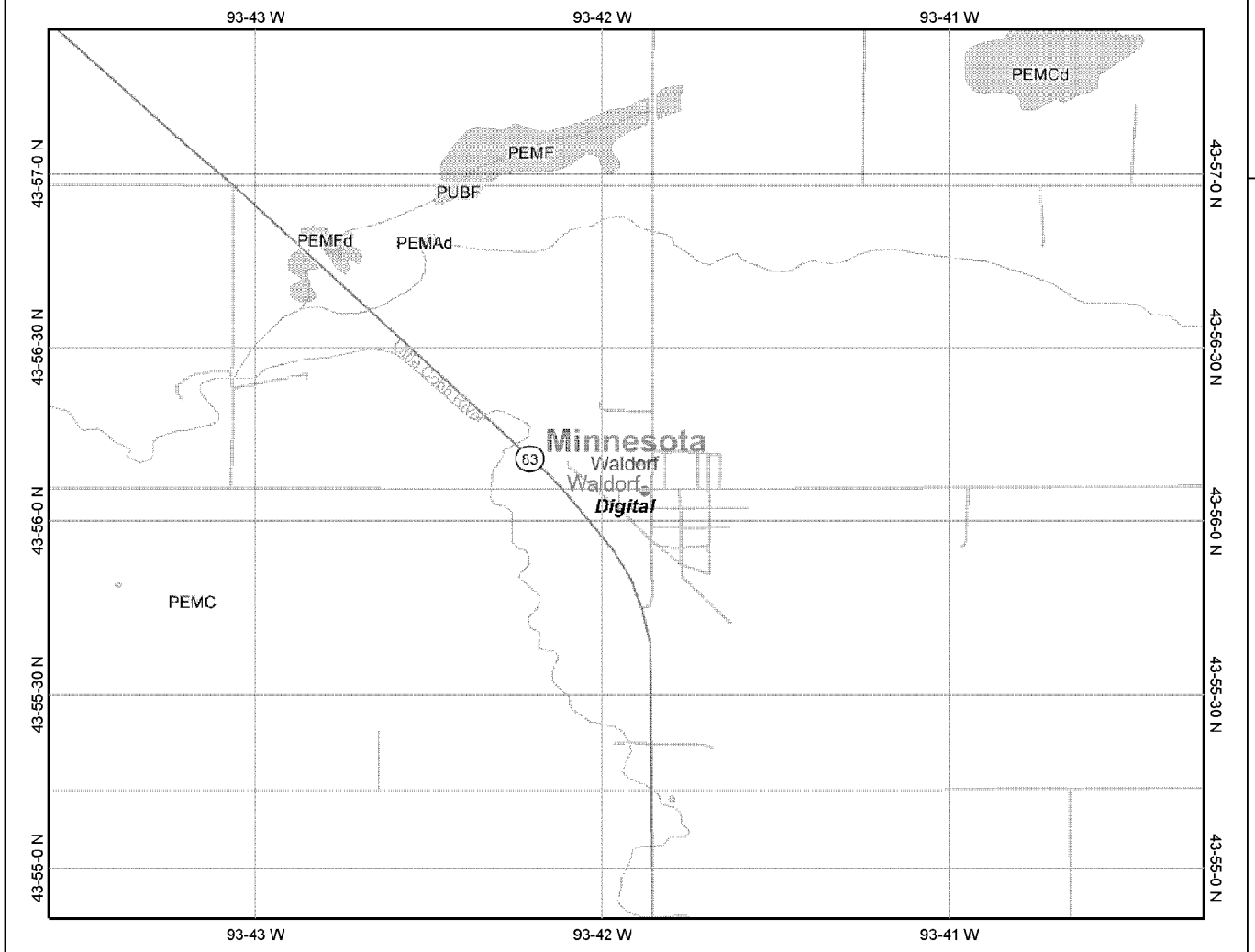
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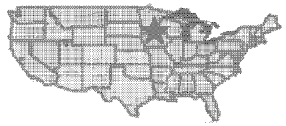
Minnesota Pollution Control Agency

Sites

- Delisted State Superfund
- ■ Permitted Solid Waste
- Unpermitted Dumps
- ■ NFRAP
- State Superfund
- ● CERCLIS
- ○ Federal Superfund
- ● State Closed Landfills
- Voluntary Investigation & Cleanup
- ▲ RCRA TSD Facilities
- RCRA Investigation & Cleanup
- ▲ State Assessment

Waldorf Wetland Map





Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:33,236

Map center: 43° 56' 8" N, 93° 41' 56" W

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

2222.1726

STATE_02822683

Minnesota Unique Well No.
171114

County Waseca
Quad Waldorf
Quad ID 33B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 12/28/1989
Update Date 09/10/2002
Received Date

Well Name EUSTICE, DOUG

Township	Range	Dir	Section	Subsections	Elevation Method	Elevation
106	24	W	33	CADAAC	7.5 minute topographic map (+/- 5 feet)	1046 ft.

Well Depth	Depth Completed	Date Well Completed
225 ft.	225 ft.	05/25/1982

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 2 ft.

Casing Diameter	Weight	Hole Diameter
5 in. to 155 ft.	15 lbs./ft.	5 in. to 225 ft.

Open Hole from 155 ft. to 225 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address

WALDOLF MN

Geological Material	Color	Hardness	From	To
CLAY	YEL/BRN	SOFT	0	20
CLAY	GRAY	SOFT	20	40
CLAY SANDY	GRAY	MEDIUM	40	152
LIMESTONE	BRN/WHT	HARD	152	170
SHALE	BLU/GRN	M.SOFT	170	180
SANDSTONE	WHITE	MEDIUM	180	225

Static Water Level
43 ft. from Land surface Date Measured 05/25/1982

PUMPING LEVEL (below land surface)
45 ft. after 2 hrs. pumping 20 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☑ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A **Date** N/A
System *UTM - Nad83, Zone15, Meters*
X: 442366 **Y:** 4865464

Nearest Known Source of Contamination
70 feet S direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☑ Not Installed Date Installed 05/25/1982
Manufacturer's name GOULDS Model number 10EJ05412
HP 0.5 Volts 230
Length of drop Pipe 72 ft. Capacity 10 g.p.m
Type Submersible Material Stainless Steel

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

First Bedrock Platteville
Last Strat St.Peter
Aquifer Multiple
Depth to Bedrock 152 ft.

Well Contractor Certification
Martin Well Co. 22109 MARTIN, G.
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report **171114** Printed 6/29/2008 HE-01205-07

STATE_02822684

2222.1727

Minnesota Unique Well No.
171143

County Waseca
Quad Waldorf
Quad ID 33B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 12/28/1989
Update Date 03/27/1992
Received Date

Well Name JOHNSON, ROBERT
Township Range Dir Section Subsections Elevation 1082 **ft.**
105 24 W 3 CDBDDD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
255 ft.	255 ft.	04/29/1983

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 2 **ft.**

Well Address
WALDORF MN

Casing Diameter	Weight	Hole Diameter
5 in. to 196 ft.	lbs./ft.	5 in. to 255 ft.

Geological Material	Color	Hardness	From	To
SOIL	BLACK	SOFT	0	1
CLAY	YEL/BRN	SOFT	1	25
SANDY CLAY	GRAY	SOFT	25	120
SAND		MEDIUM	120	123
CLAY	GRAY	SOFT	123	165
SHALE	BLACK	MEDIUM	165	180
CLAY + GRAVEL	GRY/TAN	MEDIUM	180	195
SHALE	GREEN	SFT-HRD	195	205
LIMESTONE	BROWN	HARD	205	218
SHALE	BLU/GRN	MEDIUM	218	225
SANDSTONE	WHITE	MEDIUM	225	255

Open Hole from 196 ft. to 255 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
77 ft. from Land surface Date Measured 04/29/1983

PUMPING LEVEL (below land surface)
80 ft. after hrs. pumping 20 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☑ No

Located Mankato State University
Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number
Verification Information from neighbor
Date N/A

System *UTM - Nad83, Zone15, Meters* **X:** 443796 **Y:** 4863486

Nearest Known Source of Contamination
100 feet N direction Septic tank/drain field type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 04/29/1983
Manufacturer's name GOULDS Model number 10EJ05412
HP 0.5 Volts 230
Length of drop Pipe 90 ft. Capacity 10 g.p.m Type Submersible Material Steel (black or low carbon)

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Martin Well Co. 22109 MARTIN, G.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Decorah-Platteville
Last Strat St.Peter
Aquifer Multiple
Depth to Bedrock 195 **ft.**

County Well Index Online Report **171143** Printed 6/29/2008 HE-01205-07

STATE_02822685

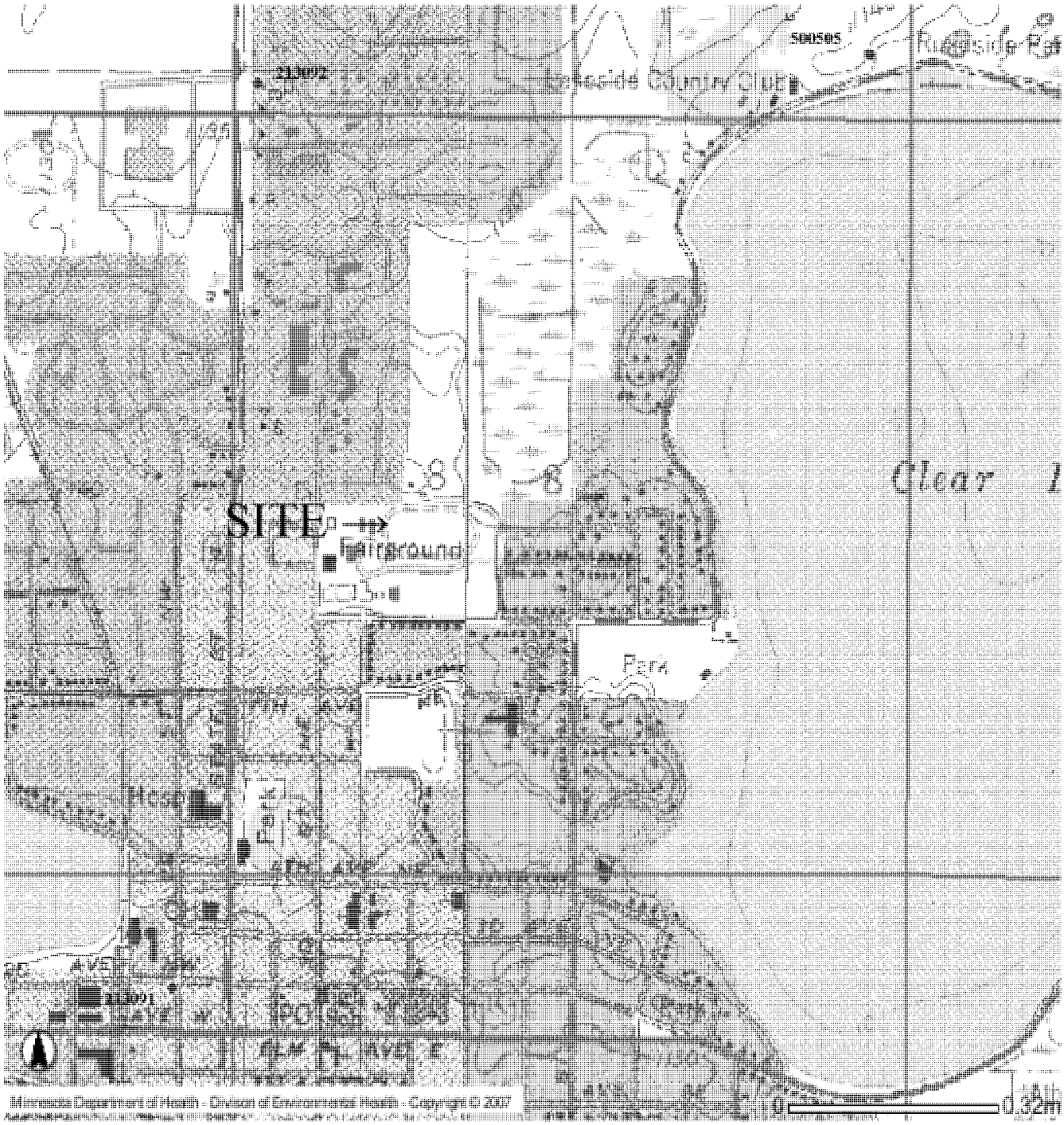
2222.1728

SITE SUMMARY

Site Name:	Waseca
Fire Department:	Waseca Fire Department 117 2nd Avenue SE Waseca, MN 56093
Site Contact:	Gary Conrath, Fire Chief 507-835-3210 garyc@ci.waseca.mn.us

Training Location:	Waseca County fairground, grand stand area
Type of foam used in training:	Class B Protein: brand not specified; 3M did not make protein foam Class A: brand not specified
Foam training frequency:	Annually
Foam use per training event:	5 to 10 gallons
Spent foam destination:	Ground
Annual foam use:	Class B Protein: 10 gallons Class A: 5 gallons
Nearest surface water:	Clear Lake, 1/4 to 1/3 mile east
Nearest wetland:	Less than 1/4 mile northeast
Karst Area:	Training site is located in a covered karst area
Nearest water well:	1/2 to 1/3 mile north
Nearest Wellhead Protection Area:	More than 1 mile
SITE RANKING:	**9**

WASECA CWI Well Map



Waseca *What's In My Neighborhood* Map



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Minnesota Pollution Control Agency

Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

Minnesota Unique Well No.
500505

County Waseca
Quad Meriden
Quad ID 53C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 01/28/1992
Update Date 09/10/2002
Received Date

Well Name WASECA GOLF CLUB
Township Range Dir Section Subsections Elevation 1133 **ft.**
107 22 W 5 DDDBDA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
502 ft.	502 ft.	04/20/1989

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Irrigation

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 2 **ft.**

Casing Diameter	Weight	Hole Diameter
8 in. to 315 ft.	lbs./ft.	14 in. to 315 ft.
		8 in. to 502 ft.

Open Hole from 315 ft. to 502 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
RR 3 BOX 187
WASECA MN

Geological Material	Color	Hardness	From	To
CLAY	BLUE		0	83
SAND FINE	GRAY		83	86
CLAY STICKY	BLUE	HARD	86	176
PLATVILLE LIME	BRN/GRY	V.HARD	176	192
SHALE	BLUE		192	198
ST. PETER SANDROCK	WHITE		198	314
SHAKOPEE LIME VARIED	VARIED		314	502

Static Water Level
110 ft. from Land surface Date Measured 04/20/1989

PUMPING LEVEL (below land surface)
0 ft. after 8 hrs. pumping 500 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Neat Cement from 0 to 315 ft. 7 yrds.

Located Minnesota Geological Survey **Method** Digitization (Screen) - Map (1:24,000)
Unique Number Verification N/A **Date** 06/24/2004
System *UTM - Nad83, Zone15, Meters* **X:** 460929 **Y:** 4882669

Nearest Known Source of Contamination
150 feet N direction type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

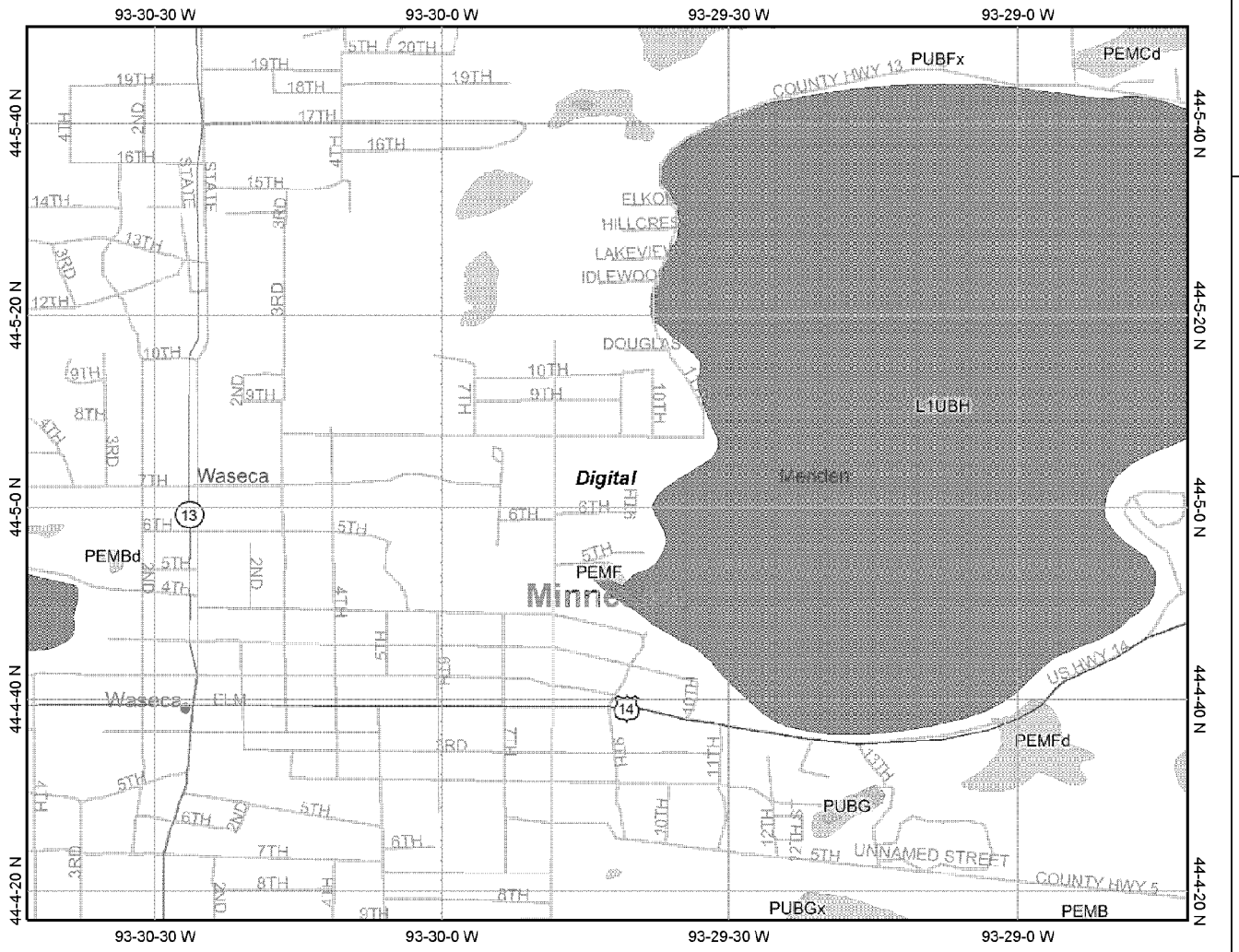
Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

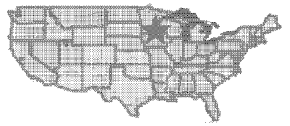
Well Contractor Certification
Born Well Co. 81162 BORN, R.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Platteville
Last Strat Prairie Du Chien Group
Aquifer Prairie Du Chien Group
Depth to Bedrock 176 **ft.**

County Well Index Online Report | **500505** | Printed 6/29/2008 HE-01205-07

Waseca Wetland Map





Legend

Ohio_wet_scan
- 0
- 1
- Out of range

Interstate

Major Roads
- Other Road
- Interstate
- State highway
- US highway

Roads

Cities

USGS Quad Index 24K

Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan

NHD Streams

Counties 100K

States 100K
- South America
- North America

Scale: 1:20,157

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2222.1733

STATE_02822690

Minnesota Unique Well No.
213091

County Waseca
Quad Waseca
Quad ID 54D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/17/1988
Update Date 05/20/1992
Received Date

Well Name WASECA CREAMERY

Township	Range	Dir	Section	Subsections	Elevation
107	22	W	18	AAACCC	1151 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
380 ft.	380 ft.	

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Commercial

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 ft.

Casing Diameter	Weight	Hole Diameter

Open Hole from ft. to ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address

WASECA MN 56093

Geological Material	Color	Hardness	From	To
DRIFT			0	188
SOAPSTONE			188	206
DECORAH SHALE			206	253
LIMESTONE			253	268
SOAPSTONE			268	280
ST. PETER SANDSTONE	WHT/YEL		280	380

REMARKS
BLDG. WAS TORN DOWN IN 1970 AND WELL WAS ABANDONED

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Information from owner
Date N/A

System *UTM - Nad83, Zone15, Meters*
X: 459253 **Y:** 4880703

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP 0 Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
SUDDENDORF
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Galena
Last Strat St.Peter
Aquifer
Depth to Bedrock 188 ft.

County Well Index Online Report

213091

Printed 6/29/2008
HE-01205-07

STATE_02822691

2222.1734

Minnesota Unique Well No.
213092

County Waseca
Quad Waseca
Quad ID 54D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/17/1988
Update Date 04/02/2008
Received Date

Well Name SCHIMER

Township	Range	Dir	Section	Subsections	Elevation
107	22	W	5	CCCCAC	1134 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
316 ft.	316 ft.	08/12/1970

Drilling Method --

Geological Material	Color	Hardness	From	To
DRIFT			0	216
ST. PETER			216	316

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter	Weight	Hole Diameter

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 459457 **Y:** 4882609

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

STATE_02822692

2222.1735

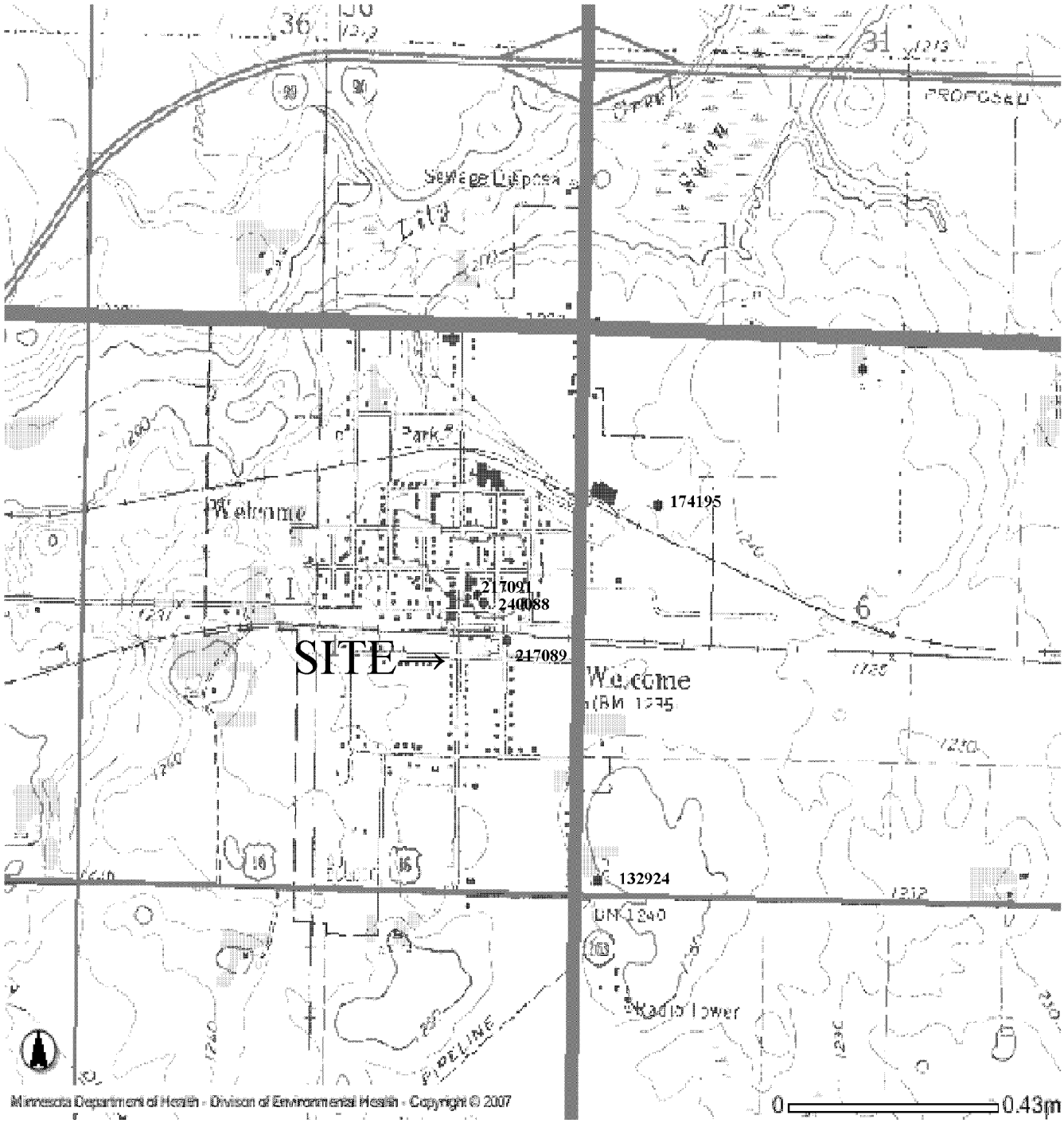
First Bedrock St.Peter **Last Strat**	**Aquifer** **Depth to Bedrock** 216 **ft.**	**Well Contractor Certification** License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	**213092**	Printed 6/29/2008 HE-01205-07

SITE SUMMARY

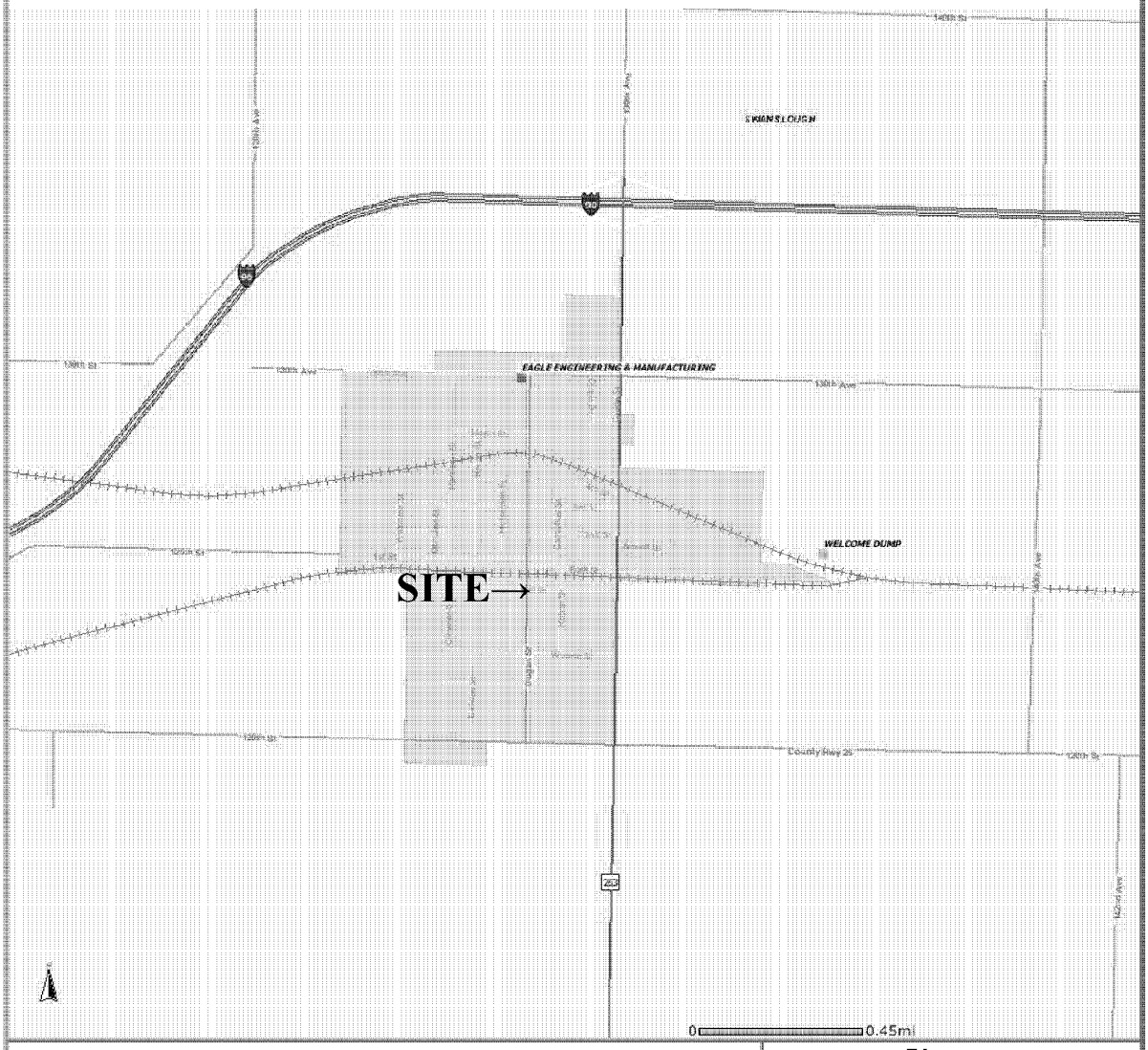
Site Name:	Welcome
Fire Department:	Welcome Fire Department PO Box 373 Welcome, MN 56181
Site Contact:	Chris Borcherdt, Training Officer 507-728-8892

Training Location:	Northeast corner of Dugan Street S. and Mill Street, Welcome
Type of foam used in training:	Class B Protein: National Foam
Foam training frequency:	Annually
Foam use per training event:	5 gallons
Spent foam destination:	Ground
Annual foam use:	Class B Protein: 5 gallons
Nearest surface water:	Intermittent streams 1/4 to 1/2 mile to the west and northeast
Nearest wetland:	Less than 1/4 mile south
Nearest water well:	Less than 1/4 mile northeast
Nearest Wellhead Protection Area:	More than 1 mile
SITE RANKING:	**9**

WELCOME CWI Well Map



Welcome *What's In My Neighborhood* Map



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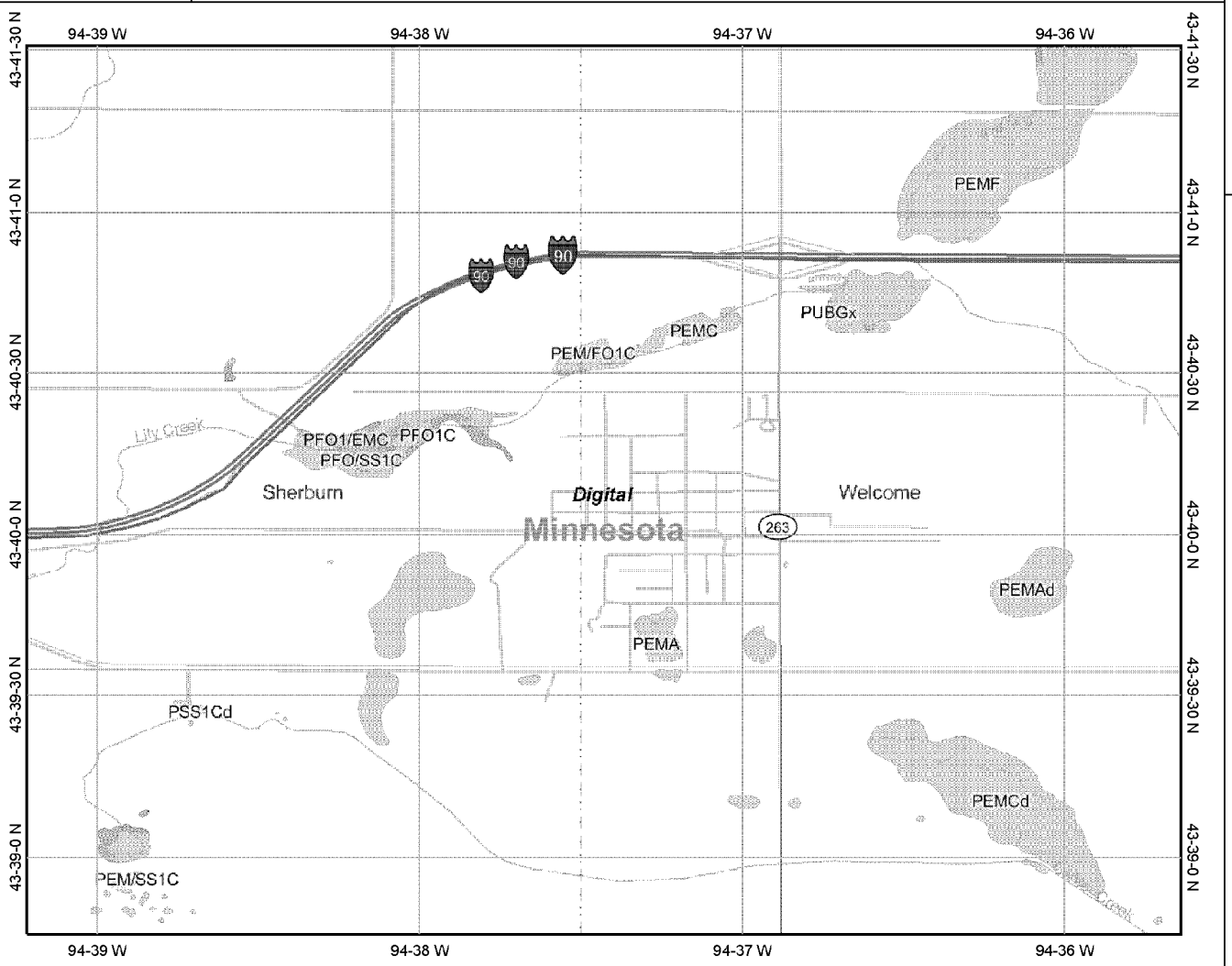
Minnesota Pollution Control Agency

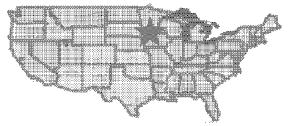
Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

STATE_02822696

Welcome Wetland Map





Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:35,712

Map center: 43° 40' 8" N, 94° 37' 26" W

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2222.1740

STATE_02822697

Minnesota Unique Well No.
132924

County Martin
Quad Welcome
Quad ID 15A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/13/1988
Update Date 07/30/2002
Received Date

Well Name RANTENKRANTZ, ELMER

Township	Range	Dir	Section	Subsections	Elevation	Elevation Method
102	31	W	6	CCCCC	1249 ft.	7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
158 ft.	158 ft.	09/30/1978

Drilling Method Non-specified Rotary

Geological Material	Color	Hardness	From	To
TOPSOIL	BLACK	SOFT	0	1
CLAY	YELLOW	SOFT	1	15
CLAY	BLUE	SOFT	15	141
SAND	GRAY	SOFT	141	158

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type **Joint** Welded **Drive Shoe?** ☑ Yes ☐ No **Above/ Below** 2 **ft.**

Casing Diameter	Weight	Hole Diameter
5 in. to 150 ft.	15 lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
5	20	10	150 ft. and 154 ft.

Static Water Level
130 ft. from Land surface Date Measured 09/30/1978

PUMPING LEVEL (below land surface)
170 ft. after 1 hrs. pumping 15 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Located Minnesota Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Information from owner **Date** N/A

System *UTM - Nad83, Zone15, Meters* **X:** 369877 **Y:** 4835404

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Cuttings from 0 to 140 ft.

Nearest Known Source of Contamination
90 feet S direction type

Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number HP Volts
Length of drop Pipe ft. Capacity g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification

License Business Name	Lic. Or Reg. No.	Name of Driller
Beemer Well Drilling	90191	BEMEMER, P.

First Bedrock
Last Strat Sand-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report **132924** Printed 6/29/2008 HE-01205-07

STATE_02822698

2222.1741

Minnesota Unique Well No.
174195

County Martin
Quad Welcome
Quad ID 15A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/13/1988
Update Date 07/30/2002
Received Date

Well Name L+H GRAIN

Township	Range	Dir	Section	Subsections	Elevation	
102	31	W	6	BCABCA	**Elevation Method**	1228 **ft.** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
225 **ft.**	225 **ft.**	07/01/1982

Drilling Method Non-specified Rotary

Drilling Fluid
--

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 1.5 **ft.**

Casing Diameter	Weight	Hole Diameter
5 in. to 210 ft.	lbs./ft.	10 in. to 225 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
5	18	5	215 ft. and 220 ft.
5	15	10	210 ft. and 225 ft.

Static Water Level
110 ft. from Land surface Date Measured 07/01/1982

PUMPING LEVEL (below land surface)
200 ft. after 18 hrs. pumping 20 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address

WELCOME MN

Geological Material	Color	Hardness	From	To
CLAY	BROWN	SOFT	0	20
CLAY	GRAY	SOFT	20	125
CLAY	GRY/BRN	SOFT	125	155
CLAY	GRAY	SOFT	155	170
SAND	GRAY	SOFT	170	225

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Located Minnesota Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Information from owner **Date** N/A

System *UTM - Nad83, Zone15, Meters* **X:** 370072 **Y:** 4836467

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☑ Not Installed Date Installed 07/02/1982
Manufacturer's name AERMOTOR Model number A12B-200
__ HP 2 Volts 230
Length of drop Pipe 187 ft. Capacity 20 g.p.m
Type Submersible Material Plastic

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Jerry's Well Co. 90421 QUASTAD, S.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **174195** | Printed 6/29/2008 IIE-01205-07

STATE_02822699

2222.1742

Minnesota Unique Well No.
217089

County Martin
Quad Welcome
Quad ID 15A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/13/1988
Update Date 07/31/2002
Received Date

Well Name VILLAGE OF WELCOME

Township	Range	Dir	Section	Subsections	Elevation
102	32	W	1	DABADD	1235 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
150 ft.	150 ft.	00/00/1907

Drilling Method Cable Tool

Geological Material	Color	Hardness	From	To
TILL			0	20
SAND & GRAVEL LENSES			20	40
BLUE CLAY	BLUE		40	150
SAND			150	150

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Other (specify in remarks)

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter **Weight** **Hole Diameter**

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter **Slot/Gauze** **Length** **Set Between**

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 369582 **Y:** 4836085

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

First Bedrock
Last Strat Sand
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock **ft.**

Well Contractor Certification
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report | **217089** | Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
217091

County Martin
Quad Welcome
Quad ID 15A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/13/1988
Update Date 08/14/1991
Received Date

Well Name

Township Range Dir Section Subsections Elevation 1252 **ft.**

102 32 W 1 ADCCDB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	**Depth Completed**	**Date Well Completed**
440 **ft.**	440 **ft.**	

Drilling Method

Drilling Fluid

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use

Casing Type **Joint** **Drive Shoe?** ☐ Yes ☐ No **Above/ Below ft.**

Casing Diameter **Weight** **Hole Diameter**

Open Hole from ft. to ft.

Screen
Diameter **Slot/Gauze** **Length** **Set Between**

Geological Material	Color	Hardness	From	To
SOIL			0	5
YELLOW CLAY			5	25
BLUE CLAY			25	37
SAND			37	38
BLUE CLAY			38	40
BOULDERS			40	41
BLUE CLAY			41	70
SAND & GRAVEL			70	72
BLUE CLAY & SOME GRAVEL			72	86
BOULDER			86	87
BLUE CLAY & SOME GRAVEL			87	140
SAND & GRAVEL W/CLAY			140	145
YELLOW SANDY CLAY			145	150
BLUE SANDY CLAY			150	160
DIRTY SAND & GRAVEL			160	163
BLUE CLAY			163	164
SAND & CLAY			164	165
BLUE CLAY			165	240
SAND & CLAY			240	253
SANDY BLUE CLAY			253	350
SOFT BLUE CLAY			350	440

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 369487 **Y:** 4836214

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

First Bedrock
Last Strat Till-gray
Aquifer
Depth to Bedrock ft.

Well Contractor Certification
Mueller Well Co. 96460
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report | **217091** | Printed 6/29/2008 HE-01205-07

STATE_02822701

2222.1744

Minnesota Unique Well No.
240088

County Martin
Quad Welcome
Quad ID 15A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/10/1992
Update Date 04/03/2008
Received Date

Well Name WELCOME 1
Township Range Dir Section Subsections Elevation 1251 **ft.**
102 32 W 1 ADCCDD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
263 **ft.**	263 **ft.**	00/00/1946

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter	Weight	Hole Diameter

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
WELCOME MN 56181

Geological Material	Color	Hardness	From	To
NO RECORD			0	0

Static Water Level
118.3 ft. from Land surface Date Measured 04/26/1966

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
SEALED 9-16-1997. SEALING NO. H-129715.
NO LOG.
WELL SEALED 09-16-1997 BY 71015.
ORIGINAL USE PS - PUBLIC SUPPLY/NON-COMMUNITY.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey **Method** GPS Differentially Corrected
Unique Number Verification Information from owner **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 369507 **Y:** 4836191

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
BROWN, K.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat No Record
Aquifer
Depth to Bedrock **ft.**

STATE_02822702

2222.1745

County Well Index Online Report	240088	Printed 6/29/2008 HE-01205-07

SITE SUMMARY

Site Name: Winona

Fire Department: Winona Fire Department
451 E. 3rd Street
Winona, MN 55987

Site Contact: Ed Krall, Fire Chief
507-457-8266
ekrall@ci.winona.mn.us

Training Location:	Various locations: Central Fire Station, 451 E. 3rd Street, and Technical College, 1250 Homer Road, Winona
Type of foam used in training:	AR-AFFF: Ansulite ARC
Foam training frequency:	Annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Ground, storm sewer
Annual foam use:	AR-AFFF: 45 gallons Class A: 5 gallons
Nearest surface water:	3rd Street site: Mississippi River, approximately 1/4 mile NE Homer Road site: unidentified streams and ponds on campus of Technical College
Nearest wetland:	3rd Street site: approximately 1 mile south Homer Road site: on campus of Technical College
Karst Area:	Training site is located in an active karst area
Nearest water well:	3rd Street site: less than 1/2 mile north Homer Road site: wells on campus
Nearest Wellhead Protection Area:	3rd Street site located in Wellhead Protection Area
SITE RANKING:	**21**

Winona *What's In My Neighborhood* Map



Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

Minnesota Pollution Control Agency

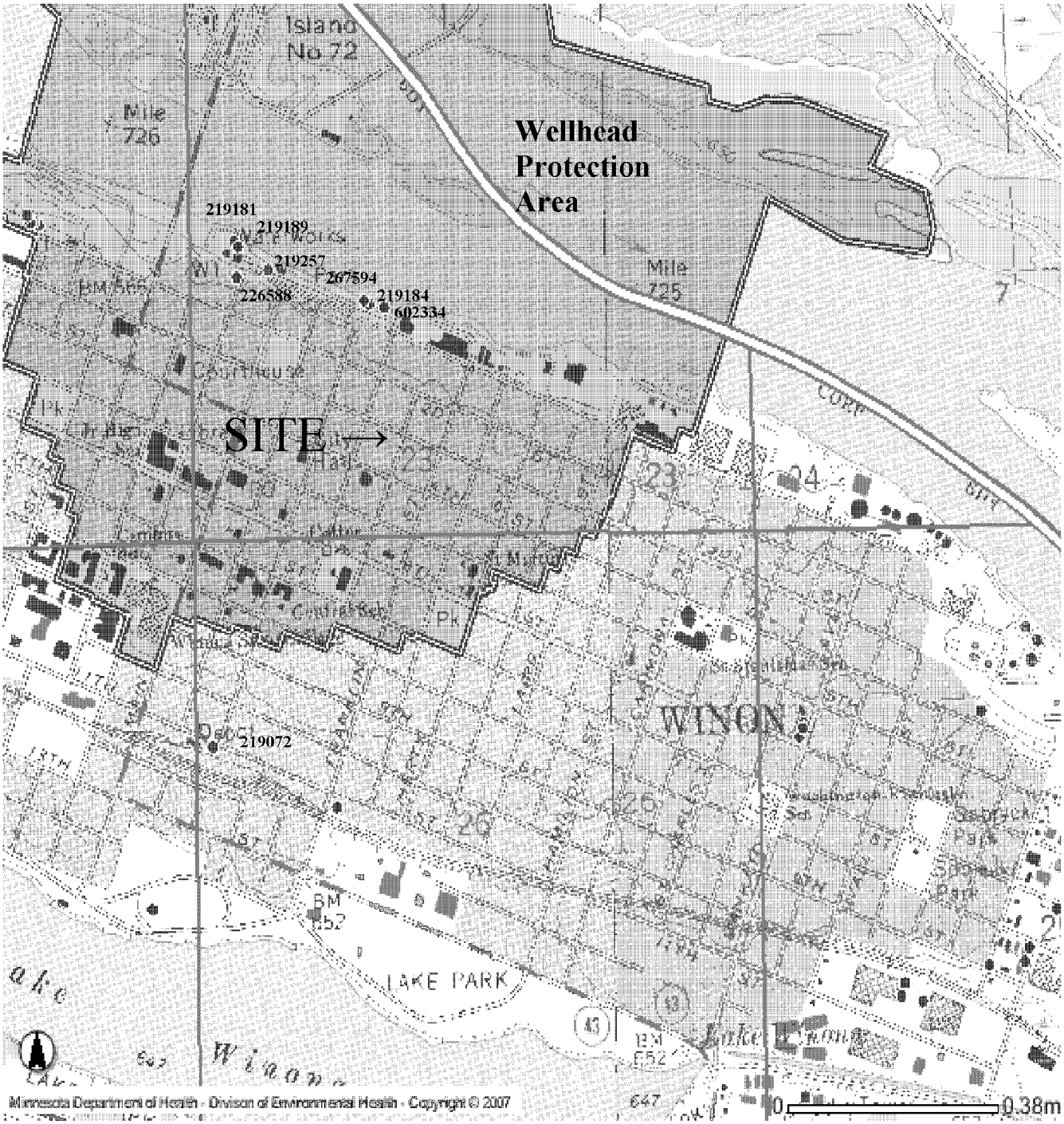
Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

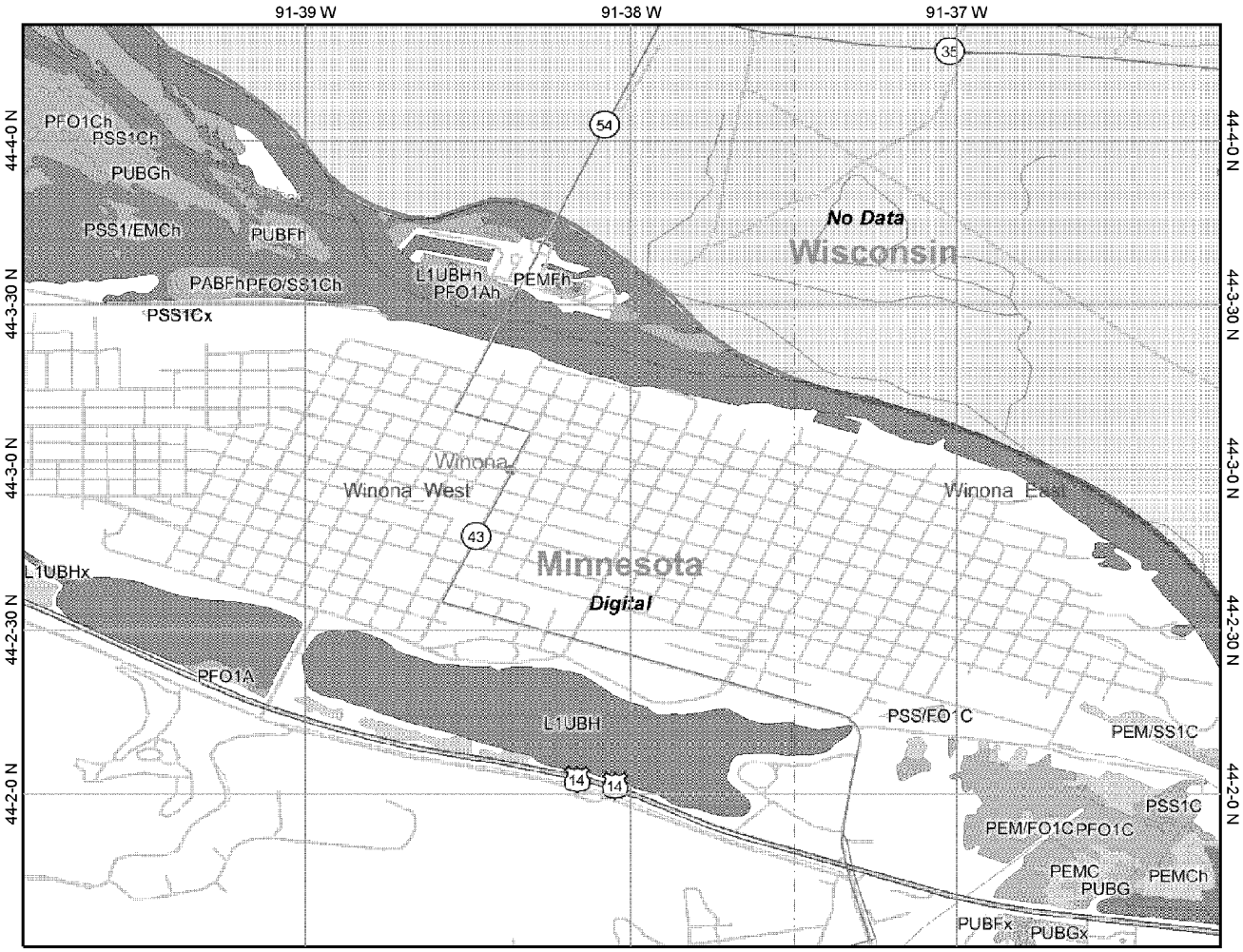
STATE_02822705

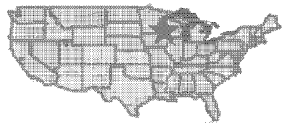
2222.1748

WINONA 3rd Street CWI Well Map



Winona Wetland Map





Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:36,669

Map center: 44° 2' 57" N, 91° 38' 2" W

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

2222.1750

STATE_02822707

Minnesota Unique Well No.
219072

County Winona
Quad Winona West
Quad ID 46C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/17/1988
Update Date 09/24/2002
Received Date

Well Name C.M. & ST. PAUL R.R. CO.

Township	Range	Dir	Section	Subsections	Elevation
107	7	W	26	BCBCBB	655 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
373 ft.	373 ft.	02/05/1906

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Industrial

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 ft.

Casing Diameter	Weight	Hole Diameter
10 in. to 148 ft.	lbs./ft.	
8 in. to 222 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter **Slot/Gauze** **Length** **Set Between**

Geological Material	Color	Hardness	From	To
SAND & GRAVEL			0	148
SANDSTONE			148	373

Static Water Level
-9 ft. from Land surface Date Measured 02/05/1906

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
CASING: 010 TO 0148;008 TO 0222;006 TO 0373.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 609001 **Y:** 4877682

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed
Manufacturer's name Model number ___ HP 10 Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

First Bedrock Mt.Simon
Last Strat Mt.Simon
Aquifer Mt.Simon
Depth to Bedrock 148 ft.

Well Contractor Certification
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report

219072

Printed 6/29/2008
HE-01205-07

Minnesota Unique Well No.
219181

County Winona
Quad Winona West
Quad ID 46C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 12/28/1989
Update Date 07/10/2007
Received Date

Well Name WINONA NO.5
Township Range Dir Section Subsections Elevation 649 **ft.**
107 7 W 23 CBBABC **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
501 ft.	501 ft.	07/19/1924

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
16 in. to 160 ft.	lbs./ft.	16 in. to 171 ft.
		14 in. to 265 ft.

Open Hole from 160 ft. to 501 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
13 ft. from Land surface Date Measured 05/14/1924

PUMPING LEVEL (below land surface)
175 ft. after 6 hrs. pumping 727 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
WINONA MN 55987

Geological Material	Color	Hardness	From	To
SAND & GRAVEL DRIFT			0	150
SAND & GRAVEL DRIFT			150	160
LIGHT SANDROCK			160	325
CLAY	BLU/RED		325	330
SAND ROCK			330	377
SAND SHALE	RED		377	380
SHALE ROCK	RED		380	414
COARSE SANDROCK			414	450
HARD SANDROCK			450	477
SAND SHALE			477	488
GRANITE	BLACK	V.HARD	488	491
GRANITE	BLACK	V.HARD	491	501

REMARKS
CALIPER AND FLOW METERED 3-31-2003. GW!Q NO. 0120.
GAMMA LOGGED 8-14-1987. WELL TV BY MDII.
SEALED 8/11/2003 BY MARK J TRAUT WELLS, INC. LIC 73646. ORIGINAL SEALING RECORD
H0209448; REPLACED WITH UNIQUE # BY MATCHING WELL RECORDS.

Grouting Information Well Grouted? ☐ Yes ☐ No

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Located Minnesota Geological Survey **Method** GPS SA On (averaged)
Unique Number Verification Information from owner **Date** 06/15/1999
System *UTM - Nad83, Zone15, Meters* **X:** 609063 **Y:** 4878955

Pump ☑ Not Installed Date Installed
Manufacturer's name Model number ___ HP 50 Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Turbine Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Borehole Geophysics Yes
First Bedrock Mt.Simon **Aquifer** Multiple
Last Strat Archean Granite Pluton **Depth to Bedrock** 150 **ft.**

Well Contractor Certification
Mccarthy Well Co. 27022
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report | **219181** | Printed 6/29/2008 IIE-01205-07

STATE_02822709

Minnesota Unique Well No.
219184

County Winona
Quad Winona West
Quad ID 46C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 12/28/1989
Update Date 05/06/2005
Received Date

Well Name WINONA NO.6
Township Range Dir Section Subsections Elevation 656 **ft.**
107 7 W 23 CAAB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
484 **ft.**	484 **ft.**	04/18/1929

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Well Address
WINONA MN 55987

Casing Diameter	Weight	Hole Diameter
16 in. to 148 ft.	lbs./ft.	

Geological Material	Color	Hardness	From	To
DRIFT, SAND & GRAVEL			0	148
SANDROCK & SHALE			148	327
SHALE ROCK	BROWN		327	332
SANDROCK & SHALE			332	379
SHALE	BROWN		379	383
LIGHT SANDROCK			383	447
SANDROCK		HARD	447	461
SANDROCK	WHITE	HARD	461	475
SANDROCK	GRAY		475	484
GRANITE			484	

Open Hole from 150 ft. to 486 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
2 ft. from Land surface Date Measured 00/00/1929

PUMPING LEVEL (below land surface)
113 ft. after 2 hrs. pumping 1240 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
SEALED 6/26/91 BY TRAUT WELLS, LIC. 71536, SEALING RECORD #219184.
SEALED DEPTH: 496'. THIS WELL WAS MISTAKENLY ASSIGNED SEALING RECORD
H0011717 (IN CWI). HOWEVER, ORIGINAL DRILLER'S WELL RECORD (SCANNED AT MDH)
CLEARLY SHOWS THIS WELL WAS CITY WELL #6, WITH UNIQUE #219184, WHICH IS WHAT
THE SEALING RECORD # SHOULD BE. CITY WELL #4 WAS SEALED THE SAME DAY (6/28/91)
AND IS THE WELL TO WHICH THE SEALING RECORD #H0011717 SHOULD BE ASSIGNED;
MDH HAS NO RECORD OF ANY ASSIGNED UNIQUE # TO CITY WELL #4.

Grouting Information Well Grouted? ☐ Yes ☐ No

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Located Minnesota Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number
Verification Information from owner **Date** 10/25/2004

System *UTM - Nad83, Zone15, Meters* **X:** 609450 **Y:** 4878797

Pump ☑ Not Installed Date Installed
Manufacturer's name Model number ___ HP 60 Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Turbine Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

First Bedrock Mt.Simon **Last Strat** Archean Granite Pluton	**Aquifer** Mt.Simon **Depth to Bedrock** 148 **ft.**	**Well Contractor Certification** Mccarthy Well Co. 27022 MCCARTY WELL License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	**219184**	Printed 6/29/2008 IIE-01205-07

Minnesota Unique Well No.
219189

County Winona
Quad Winona West
Quad ID 46C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 12/28/1989
Update Date 10/03/2007
Received Date

Well Name WINONA 10
Township Range Dir Section Subsections Elevation 649 **ft.**
107 7 W 23 CBBADB **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
147 ft.	147 ft.	02/12/1950

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
20 in. to 117.5 ft.	lbs./ft.	

Well Address
WINONA MN 55987

Geological Material	Color	Hardness	From	To
SAND & GRAVEL (FINE)			0	90
SAND & GRAVEL (FINE)			90	100
SAND & GRAVEL (FINE)			100	110
SAND & COARSE GRAVEL			110	112
FINE SAND			112	120
SAND & COARSE GRAVEL			120	126
COARSE SAND			126	130
FINE SAND & GRAVEL			130	140
COARSE SAND & GRAVEL			140	147

Open Hole from ft. to ft.

Screen YES **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between
19.5		32	0 ft. and ft.

Static Water Level
12 ft. from Land surface Date Measured 02/12/1959

PUMPING LEVEL (below land surface)
51 ft. after hrs. pumping 940 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
GAMMA LOGGED 4-22-1996. SEALED 11/17/2003 (H0209449)
WELL SEALED 08-11-2003 BY 73646

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey **Method** GPS SA On (averaged)
Unique Number Verification Information from owner **Date** 06/15/1999
System *UTM - Nad83, Zone15, Meters* **X:** 609073 **Y:** 4878941

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed
Manufacturer's name LAYNE Model number __ HP 20 Volts
Length of drop Pipe _ft. Capacity __g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Borehole Geophysics Yes
First Bedrock
Last Strat Sand & larger
Aquifer Quat. Water Table Aquifer
Depth to Bedrock **ft.**

Well Contractor Certification
Thein Well Co. 34050 THEIN,
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report

219189

Printed 6/29/2008
HE-01205-07

STATE_02822712

2222.1755

Minnesota Unique Well No.
219257

County Winona
Quad Winona West
Quad ID 46C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 09/10/1990
Update Date 05/11/2005
Received Date

Well Name WINONA NO.8
Township Range Dir Section Subsections Elevation 657 **ft.**
107 7 W 23 CBABCD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
159 **ft.**	159 **ft.**	03/00/1935

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter	Weight	Hole Diameter
25 in. to 60 ft.	lbs./ft.	
18 in. to 70 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between
0		80	0 ft. and ft.

Static Water Level
2 ft. from Land surface Date Measured 00/00/1934

PUMPING LEVEL (below land surface)
3 ft. after 2 hrs. pumping 2800 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
WINONA MN 55987

Geological Material	Color	Hardness	From	To
COARSE MUDDY GRAVEL			0	20
COARSE SAND & GRAVEL			20	55
SHALE & SAND	BLUE		55	60
SAND			60	75
SAND		MEDIUM	75	90
FINE SAND			90	100
VERY FINE SAND			100	105
QUICK SAND			105	120
FINE SAND			120	130
SAND		MEDIUM	130	145
COARSE GRAVEL			145	150
COARSE SAND			150	155
SHALE & FINE SAND	BLUE		155	159
HARDPAN & GRANITE			159	159

REMARKS
SEALED, SEALING RECORD # 219257 (SAME AS UNIQUE #), 11/9/1988 BY DRUSSELL WELL
DRILLING, LIC. 85221. SEALED DEPTH: 127'; SEALING DIAM. 24"X18"X12"; TREMMIE
PIPE PLACED AT 127', NEAT CEMENT GROUT PUMPED BOTTOM TO TOP. EARL DRUSSELL TOLD
PETER ZIMMERMAN HE DID NOT HAVE ORIGINAL DEPTH, BUT SOUNDED THE WELL TO 127'.
SEALING RECORD LISTS LOCATION AS: NE, E, SE, SECTION 22 (T107N, R7W); HOWEVER,
PETER ZIMMERMAN, EARL DRUSSELL VERIFIED THIS SEALING RECORD IS FOR CITY WELL #8
WELL SEALED 11-09-1988 BY 85221

Grouting Information Well Grouted? ☐ Yes ☐ No

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Located Minnesota Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Information from owner **Date** 10/25/2004

System *UTM - Nad83, Zone15, Meters* **X:** 609159 **Y:** 4878883

Pump ☑ Not Installed Date Installed
Manufacturer's name LAYNE Model number __ HP 60 Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

STATE_02822713

2222.1756

First Bedrock Mt.Simon **Last Strat** Mt.Simon	**Aquifer** Quat. Water Table Aquifer **Depth to Bedrock** 159 **ft.**	**Well Contractor Certification** Layne Well Co. 27010 NORTHWEST, L. License Business Name Lic. Or Reg. No. Name of Driller	
County Well Index Online Report	**219257**		Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
226588

County Winona
Quad Winona West
Quad ID 46C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/17/1988
Update Date 09/24/2002
Received Date

Well Name LAKE CENTER SWITCH
Township Range Dir Section Subsections Elevation 657 **ft.**
107 7 W 23 CBBDBB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
70 **ft.**	70 **ft.**	03/17/1959

Drilling Method --

Geological Material	Color	Hardness	From	To
MUD			0	20
MUD & PEBBLES			20	42
FINE SAND			42	63
COARSE SAND			63	70

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 64 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between
4	25	6	64 ft. and 70 ft.

Static Water Level
8 ft. from Land surface Date Measured 03/17/1959

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
DRILLED BY HASSE WELL

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Information from owner
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 609069 **Y:** 4878864

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand
Aquifer Quat. Water Table Aquifer
Depth to Bedrock **ft.**

County Well Index Online Report | **226588** | Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
267594

County Winona
Quad Winona West
Quad ID 46C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 0
Update Date 04/01/2008
Received Date

Well Name WINONA 4
Township Range Dir Section Subsections Elevation 649 **ft.**
107 7 W 23 CABA **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
0 **ft.**	0 **ft.**	0

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Abandoned **Status** Inactive

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter	Weight	Hole Diameter

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located **Method** Digitization (Screen) - Map (1:24,000)

Unique Number
Verification Information from owner **Date** 10/25/2004

System *UTM - Nad83, Zone15, Meters* **X:** 609435 **Y:** 4878806

Nearest Known Source of Contamination
0 feet direction type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number HP Volts
Length of drop Pipe ft. Capacity g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☑ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Mt.Simon
Last Strat

Aquifer Mt.Simon
Depth to Bedrock 0 **ft.**

STATE_02822716

County Well Index Online Report	267594	Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
602334

County Winona
Quad Winona West
Quad ID 46C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 06/12/2001
Update Date 01/08/2007
Received Date

Well Name CITY OF WINONA
Township Range Dir Section Subsections Elevation 647 **ft.**
107 7 W 23 CABA **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
115 ft.	115 ft.	03/18/2000

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Irrigation

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☑ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
6 in. to 95 ft.	20 lbs./ft.	6 in. to 115 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
6	15	20	95 ft. and 115 ft.

Well Address
LEVEE PARK
WINONA MN 55987

Geological Material	Color	Hardness	From	To
DIRT	BLACK	MEDIUM	0	2
SAND & GRAVEL	BROWN	HARD	2	115

Static Water Level
16 ft. from Land surface Date Measured 00/31/2000

PUMPING LEVEL (below land surface)
24 ft. after 2 hrs. pumping 50 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Bentonite from to ft. 2 bags

Located Minnesota Department of Health **Method** GPS SA Off (averaged)
Unique Number Verification N/A **Date** 04/30/2004
System *UTM - Nad83, Zone15, Meters* **X:** 609494 **Y:** 4878789

Nearest Known Source of Contamination
51 feet South East direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
Drussell Well Co. 85221 DRUSSELL, D
License Business Name Lic. Or Reg. No. Name of Driller

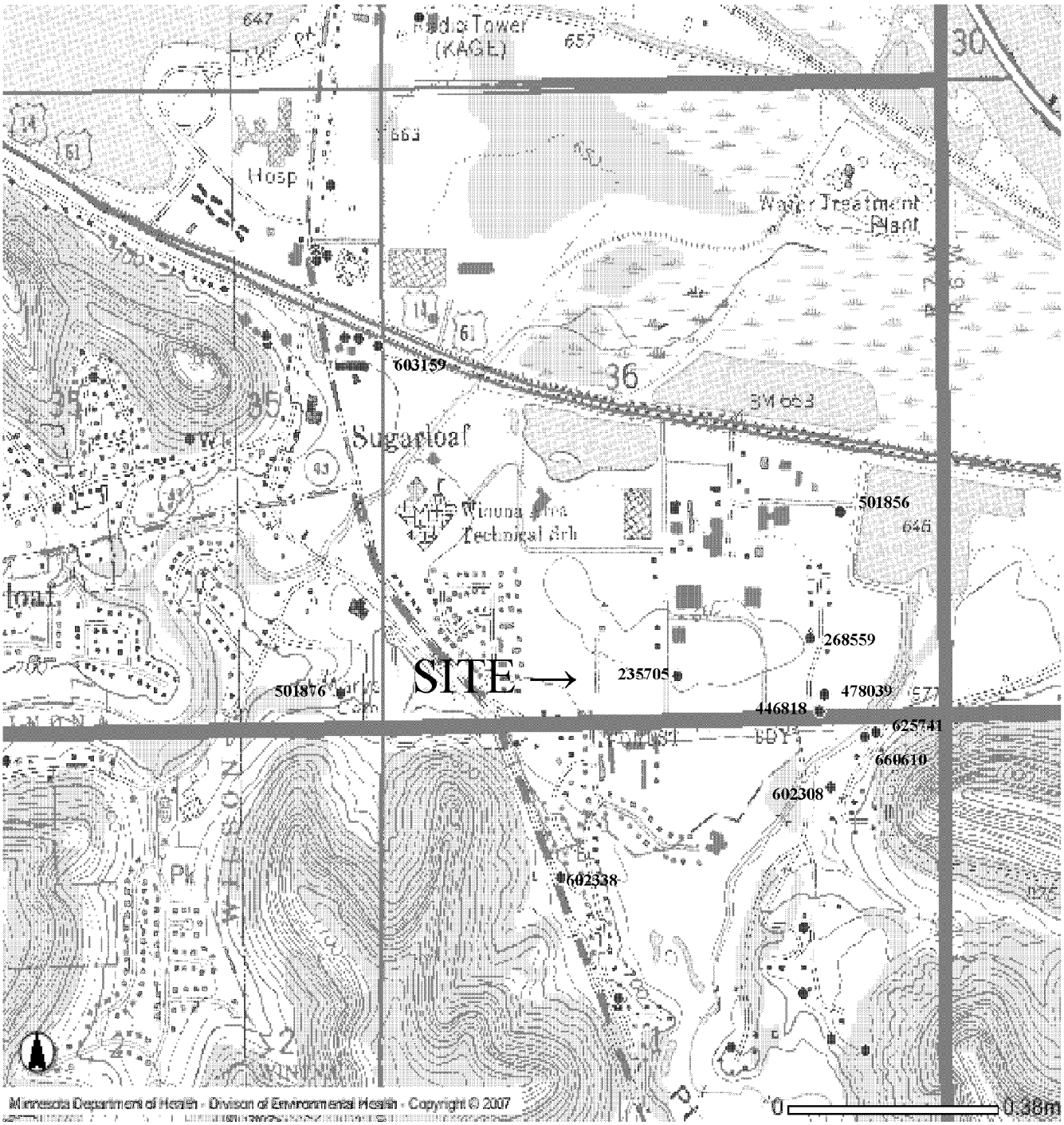
First Bedrock **Aquifer**
Last Strat **Depth to Bedrock ft.**

County Well Index Online Report **602334** Printed 6/29/2008 HE-01205-07

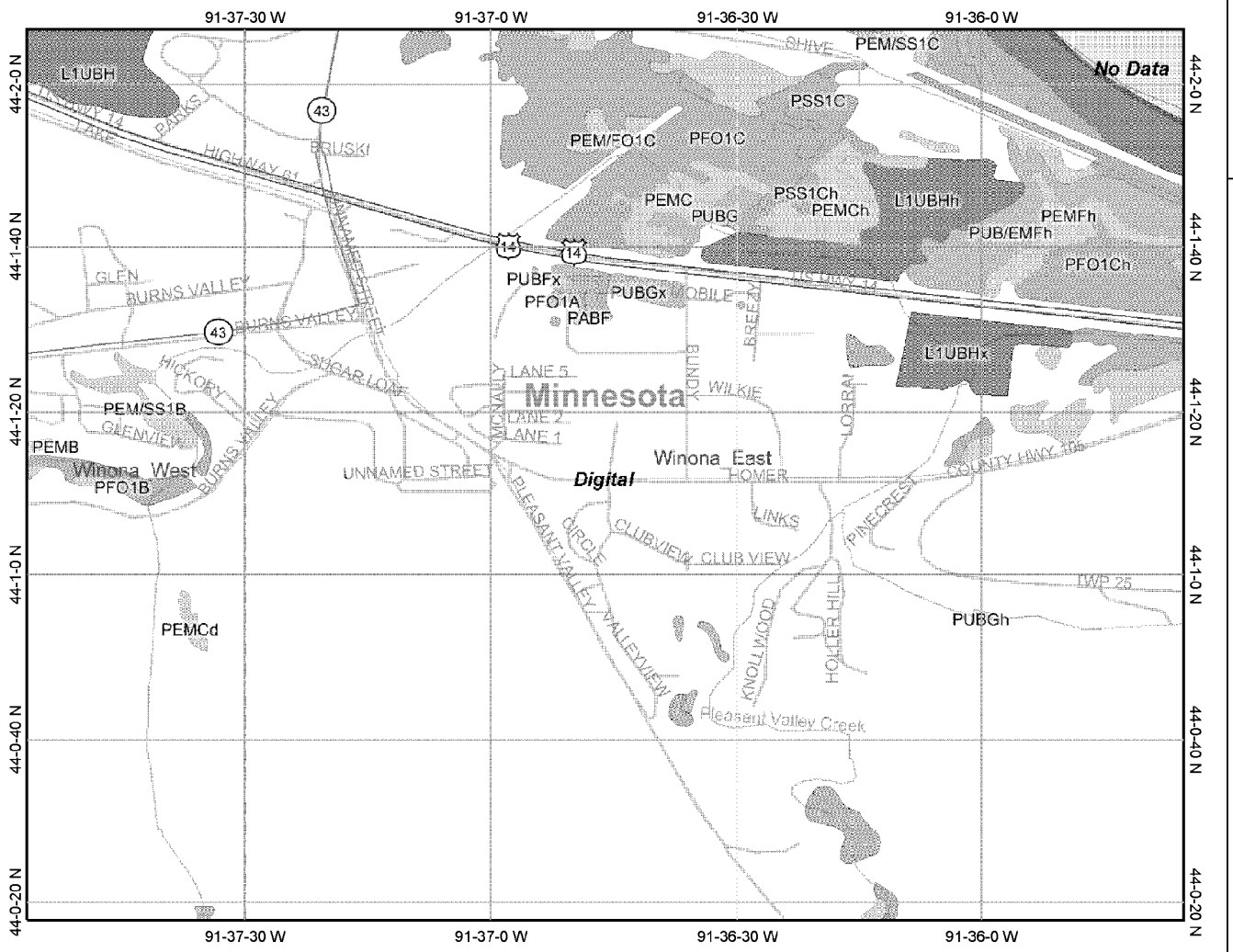
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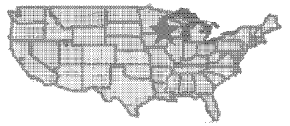
WINONA Homer Road CWI Well Map



Winona Homer Rd Wetland Map



Map center: 44° 1' 12" N, 91° 36' 46" W



Legend

Ohio_wet_scan
- 0
- 1
- Out of range

Interstate

Major Roads
- Other Road
- Interstate
- State highway
- US highway

Roads

Cities

USGS Quad Index 24K

Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan

NHD Streams

Counties 100K

States 100K
- South America
- North America

Scale: 1:23,533

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

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STATE_02822720

Minnesota Unique Well No.
235705

County Winona
Quad Winona East
Quad ID 46D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/17/1988
Update Date 03/13/2003
Received Date

Well Name DASHER PROPERTY

Township	Range	Dir	Section	Subsections	Elevation
107	7	W	36	DCCBCC	660 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
307 ft.	307 ft.	

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
5 in. to 98 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter **Slot/Gauze** **Length** **Set Between**

Geological Material	Color	Hardness	From	To
DRIFT			0	82
EAU CLAIRE			82	196
MT. SIMON			196	307

Static Water Level
0 ft. from Land surface Date Measured 06/19/1984

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
DASHER PROPERTY LOGGED BY MGS
GAMMA , ELECTRIC AND CALIPER LOGS AVAILABLE. 6 IN. OPEN HOLE FROM 98
TO 307 FEET.
GAMMA LOGGED 6/19/84.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 611447 **Y:** 4875142

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Borehole Geophysics Yes
First Bedrock Eau Claire
Last Strat Mt.Simon
Aquifer Mt.Simon
Depth to Bedrock 82 **ft.**

Well Contractor Certification
License Business Name Lic. Or Reg. No. Name of Driller

STATE_02822721

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County Well Index Online Report	235705	Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
268559

County Winona
Quad Winona East
Quad ID 46D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 12/19/2007
Update Date 0
Received Date

Well Name

Township Range Dir Section Subsections Elevation 659 **ft.**
Calc from DEM (USGS 7.5 min or equiv.)

107 7 W 36 DDBCCC **Elevation Method**

Well Depth	Depth Completed	Date Well Completed
0 **ft.**	0 **ft.**	0

Drilling Method

Drilling Fluid

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Unknown

Casing Type **Joint** **Drive Shoe?** ☐ Yes ☐ No **Above/ Below** **ft.**

Casing Diameter	Weight	Hole Diameter

Open Hole from ft. to ft.

Screen

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Department of Health
Method GPS SA Off (averaged)
Unique Number Verification N/A
Date 12/19/2007
System *UTM - Nad83, Zone15, Meters*
X: 611828 **Y:** 4875237

Nearest Known Source of Contamination
0 feet direction type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number HP Volts
Length of drop Pipe ft. Capacity g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

First Bedrock **Last Strat**	**Aquifer** **Depth to Bedrock ft.**	**Well Contractor Certification** License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	**268559**	Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
446818

County Winona
Quad Winona East
Quad ID 46D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/15/1992
Update Date 11/30/2007
Received Date

Well Name PARPART, RUDY
Township Range Dir Section Subsections Elevation 659 **ft.**
107 7 W 36 DDC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
76 **ft.**	76 **ft.**	07/24/1990

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Domestic

Casing Type **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 1 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 72 ft.	10.79 lbs./ft.	4 in. to 76 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
		4	72 ft. and 76 ft.

Static Water Level
12 ft. from Land surface Date Measured 07/24/1990

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
1470 LORRAI DR
WINONA MN 55987

Geological Material	Color	Hardness	From	To
DIRT	BLACK	MEDIUM	0	9
CLAY	BROWN	HARD	9	45
SAND	BROWN	HARD	45	76

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☑ No

Located
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 611855 **Y**: 4875054

Nearest Known Source of Contamination
26 feet W direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☑ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

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First Bedrock **Last Strat** Sand-brown	**Aquifer** **Depth to Bedrock ft.**	**Well Contractor Certification** Drussell Well Co. (License Business Name) 85221 (Lic. Or Reg. No.) DRUSSELL, E. (Name of Driller)
County Well Index Online Report	**446818**	Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
478039

County Winona
Quad Winona East
Quad ID 46D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/15/1992
Update Date 11/30/2007
Received Date

Well Name HEROLD, LEE
Township Range Dir Section Subsections Elevation 658 **ft.**
107 7 W 36 DDC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
73 **ft.**	73 **ft.**	08/20/1991

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 1 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 70 ft.	10.79 lbs./ft.	4 in. to 73 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
		3	70 ft. and 73 ft.

Well Address
1456 LORRAI DR
WINONA MN 55987

Geological Material	Color	Hardness	From	To
CLAY	BLACK	MEDIUM	0	10
CLAY & SAND	BROWN	MEDIUM	10	22
SAND	BROWN	HARD	22	73

Static Water Level
7 ft. from Land surface Date Measured 08/20/1991

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☑ No

Located **Method** Digitization (Screen) - Map (1:24,000)
Unique Number Verification N/A **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 611869 **Y:** 4875097

Nearest Known Source of Contamination
40 feet W direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number HP Volts
Length of drop Pipe ft. Capacity g.p.m Type Material

Abandoned Wells Docs property have any not in use and not sealed well(s)?
☑ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Drussell Well Co. 85221 DRUSSELL, E.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-brown
Aquifer
Depth to Bedrock ft.

County Well Index Online Report **478039** Printed 6/29/2008 HE-01205-07

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Minnesota Unique Well No.
501856

County Winona
Quad Winona East
Quad ID 46D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 11/06/1990
Update Date 11/30/2007
Received Date

Well Name HARFS & SONS INC
Township Range Dir Section Subsections Elevation 654 **ft.**
107 7 W 36 DDC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
74 **ft.**	74 **ft.**	05/30/1984

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Commercial

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 1 **ft.**

Casing Diameter	Weight	Hole Diameter
8 in. to 62 ft.	28.5 lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
8	25	14	62 ft. and 74 ft.

Well Address
1845 RONCO AV
WINONA MN

Geological Material	Color	Hardness	From	To
TOP SOIL	BLACK	MEDIUM	0	4
SAND	BROWN	MEDIUM	4	74

Static Water Level
14 ft. from Land surface Date Measured 05/30/1989

PUMPING LEVEL (below land surface)
22 ft. after 1 hrs. pumping 150 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Bentonite from to ft.

Located **Method** Digitization (Screen) - Map (1:24,000)
Unique Number Verification N/A **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 611915 **Y:** 4875556

Nearest Known Source of Contamination
55 feet W direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 06/01/1989
Manufacturer's name GOULDS Model number ___ HP 10 Volts
Length of drop Pipe 54 ft. Capacity 150 g.p.m
Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Drussell Well Co. 85221 DRUSSELL, E.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-brown
Aquifer
Depth to Bedrock ft.

County Well Index Online Report **501856** Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
501876

County Winona
Quad Winona East
Quad ID 46D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/15/1992
Update Date 11/30/2007
Received Date

Well Name DIOCESE OF WINONA
Township Range Dir Section Subsections Elevation 690 **ft.**
107 7 W 35 DDD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
148 ft.	148 ft.	05/01/1990

Drilling Method

Drilling Fluid Additive (+ Bentonite)
Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 1 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 65 ft.	10.79 lbs./ft.	8 in. to 65 ft.
		4 in. to 148 ft.

Open Hole from 65 ft. to 148 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
1190 SUGAR LOAF RD
WINONA MN 55987

Geological Material	Color	Hardness	From	To
CLAY	BROWN	HARD	0	21
SANDROCK	BROWN	HARD	21	115
SANDROCK	GRAY	HARD	115	148

Static Water Level
15 ft. from Land surface Date Measured 05/01/1990

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Neat Cement from 0 to 65 ft. 1.25 yrds.

Located **Method** Digitization (Screen) - Map (1:24,000)
Unique Number Verification N/A **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 610479 **Y:** 4875100

Nearest Known Source of Contamination
70 feet E direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Drussell Well Co. 85221 DRUSSELL, E.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock **Aquifer**
Last Strat **Depth to Bedrock** 21 **ft.**

County Well Index Online Report **501876** Printed 6/29/2008 HE-01205-07

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Minnesota Unique Well No.
602308

County Winona
Quad Winona East
Quad ID 46D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 10/29/2001
Update Date 11/29/2007
Received Date

Well Name WEAVER, JAMES

Township	Range	Dir	Section	Subsections	Elevation	Elevation Method
106	7	W	1	AAB	673 ft.	7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
226 ft.	226 ft.	08/14/1997

Drilling Method Non-specified Rotary

Drilling Fluid Other

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 190 ft.	11 lbs./ft.	8 in. to 190 ft.
		4 in. to 226 ft.

Open Hole from 190 ft. to 226 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
3 ft. from Land surface Date Measured 08/14/1997

PUMPING LEVEL (below land surface)
6 ft. after 2 hrs. pumping 30 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
280 PINECREST ST
WINONA MN 55987

Geological Material	Color	Hardness	From	To
CLAY	BROWN	MEDIUM	0	15
SANDROCK	YELLOW	HARD	15	81
SANDROCK	WHITE	HARD	81	90
SHALE	GRAY	HARD	90	189
SANDROCK	WHITE	HARD	189	226

REMARKS
PARCEL #18.012.0020
BLOCK 1, LOT 2, PINECREST
AABCDB SEC 1, T106N, R7W

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Neat Cement from 0 to 190 ft. 3.25 yrds.

Located **Method** Digitization (Screen) - Map (1:24,000)
Unique Number Verification N/A **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 611887 **Y:** 4874863

Nearest Known Source of Contamination
55 feet South East direction Septic tank/drain field type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
Drussell Well Co. 85221 DRUSSELL, E.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock **Aquifer**
Last Strat **Depth to Bedrock** 15 ft.

County Well Index Online Report **602308** Printed 6/29/2008 HE-01205-07

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Minnesota Unique Well No.
602338

County Winona
Quad Winona East
Quad ID 46D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 06/12/2001
Update Date 11/29/2007
Received Date

Well Name GALEWSKI, JEAN
Township Range Dir Section Subsections Elevation 720 ft.
106 7 W 1 BAC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
144 ft.	144 ft.	06/26/2000

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 85 ft.	11 lbs./ft.	8 in. to 85 ft.
		4 in. to 144 ft.

Open Hole from 85 ft. to 144 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
1404 FOXCRAFT PL
WINONA MN 55987

Geological Material	Color	Hardness	From	To
CLAY AND SAND	BROWN	MEDIUM	0	10
SANDROCK	YELLOW	HARD	10	102
SANDROCK	WHITE	HARD	102	139
SANDROCK AND SHALE	BLUE	HARD	139	144

Static Water Level
57 ft. from Land surface Date Measured 06/26/2000

PUMPING LEVEL (below land surface)
59.5 ft. after 2 hrs. pumping 20 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Neat Cement from 0 to 85 ft. 1.5 yrds.

Located **Method** Digitization (Screen) - Map (1:24,000)
Unique Number Verification N/A **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 611111 **Y:** 4874635

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
Drussell Well Co. 85221 DRUSSEL, E.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat
Aquifer
Depth to Bedrock 10 ft.

County Well Index Online Report | **602338** | Printed 6/29/2008 HE-01205-07

STATE_02822731

2222.1774

Minnesota Unique Well No.
603159

County Winona
Quad Winona East
Quad ID 46D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 09/27/2004
Update Date 08/29/2005
Received Date

Well Name MN DOT

Township	Range	Dir	Section	Subsections	Elevation
107	7	W	35	ADDA	659 ft.

Elevation Method Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
18 ft.	18 ft.	10/29/1997

Drilling Method Auger (non-specified)

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Monitor well

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter	Weight	Hole Diameter

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
1058 HOMER RD
WINONA MN

Geological Material	Color	Hardness	From	To
SILTY CLAY	BLACK	SOFT	0	3
SILTY CLAY	BLACK	SOFT	3	10
SANDY CLAY MOIST	BLACK	SOFT	10	13
MOIST SANDY CLAY GRAVEL SAND			13	18

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Department of Health **Method** GPS SA Off (averaged)
Unique Number Verification N/A **Date** 09/27/2004
System *UTM - Nad83, Zone15, Meters* **X:** 610587 **Y:** 4875974

Nearest Known Source of Contamination
0 feet direction type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number HP Volts
Length of drop Pipe ft. Capacity g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat
Aquifer
Depth to Bedrock **ft.**

County Well Index Online Report | **603159** | Printed 6/29/2008 IIE-01205-07

Minnesota Unique Well No.
625741

County Winona
Quad Winona East
Quad ID 46D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 06/12/2001
Update Date 11/29/2007
Received Date

Well Name BERGERSTEDT, NATHAN
Township Range Dir Section Subsections Elevation 663 ft.
106 7 W 1 AAA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
235 ft.	235 ft.	05/20/2000

Drilling Method Non-specified Rotary

Drilling Fluid Other

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 191 ft.	11 lbs./ft.	8 in. to 191 ft.
		4 in. to 235 ft.

Open Hole from 191 ft. to 235 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
8 ft. from Land surface Date Measured 05/20/2000

PUMPING LEVEL (below land surface)
8 ft. after 2 hrs. pumping 25 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
60 PINECREST RD
WINONA MN 55987

Geological Material	Color	Hardness	From	To
CLAY	BROWN	MEDIUM	0	15
SANDROCK	YELLOW	HARD	15	76
SANDROCK	WHITE	HARD	76	88
SHALE	BLUE	HARD	88	195
SANDROCK	WHITE	HARD	195	235

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement from 0 to 191 ft. 3 yrds.

Located **Method** Digitization (Screen) - Map (1:24,000)
Unique Number Verification N/A **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 612017 **Y:** 4875001

Nearest Known Source of Contamination
23 feet W direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☑ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
Drussell Well Co. 85221 DRUSSUEL, D.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock **Aquifer**
Last Strat **Depth to Bedrock** 15 ft.

County Well Index Online Report **625741** Printed 6/29/2008 HE-01205-07

STATE_02822733

2222.1776

Minnesota Unique Well No.
660610

County Winona
Quad Winona East
Quad ID 46D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 05/13/2002
Update Date 03/11/2005
Received Date

Well Name NAGLE, CHUCK

Township	Range	Dir	Section	Subsections	Elevation	Elevation Method
106	7	W	1	AAB	664 ft.	7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
240 ft.	240 ft.	10/20/2001

Drilling Method Air Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 196 ft.	11 lbs./ft.	8 in. to 196 ft.
		4 in. to 240 ft.

Open Hole from 196 ft. to 240 ft.

Screen NO **Make** **Type**

Diameter **Slot/Gauze** **Length** **Set Between**

Well Address
40 PINECREST
WINONA MN 55987

Geological Material	Color	Hardness	From	To
CLAY	BROWN	MEDIUM	0	13
SANDROCK	YELLOW	HARD	13	78
SANDROCK	WHITE	HARD	78	90
SHALE	BLUE	HARD	90	195
SANDROCK	WHITE	HARD	195	240

Static Water Level
8 ft. from Land surface Date Measured 10/20/2001

PUMPING LEVEL (below land surface)
12 ft. after 2 hrs. pumping 20 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Neat Cement from 0 to 196 ft. 3 yrds.

Located
Unique Number
Verification Other, note in remarks
System *UTM - Nad83, Zone15, Meters*

Method Digitization (Screen) - Map (1:24,000)
Date N/A
X: 611985 **Y:** 4874989

Nearest Known Source of Contamination
60 feet N direction Septic tank/drain field type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number HP Volts
Length of drop Pipe ft. Capacity g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☑ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
Drussell Well Co. 85221 DRUSSELL, D.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Ironton-Galesville
Last Strat Mt.Simon
Aquifer Mt.Simon
Depth to Bedrock 13 ft.

County Well Index Online Report **660610** Printed 6/29/2008
HE-01205-07

STATE_02822734

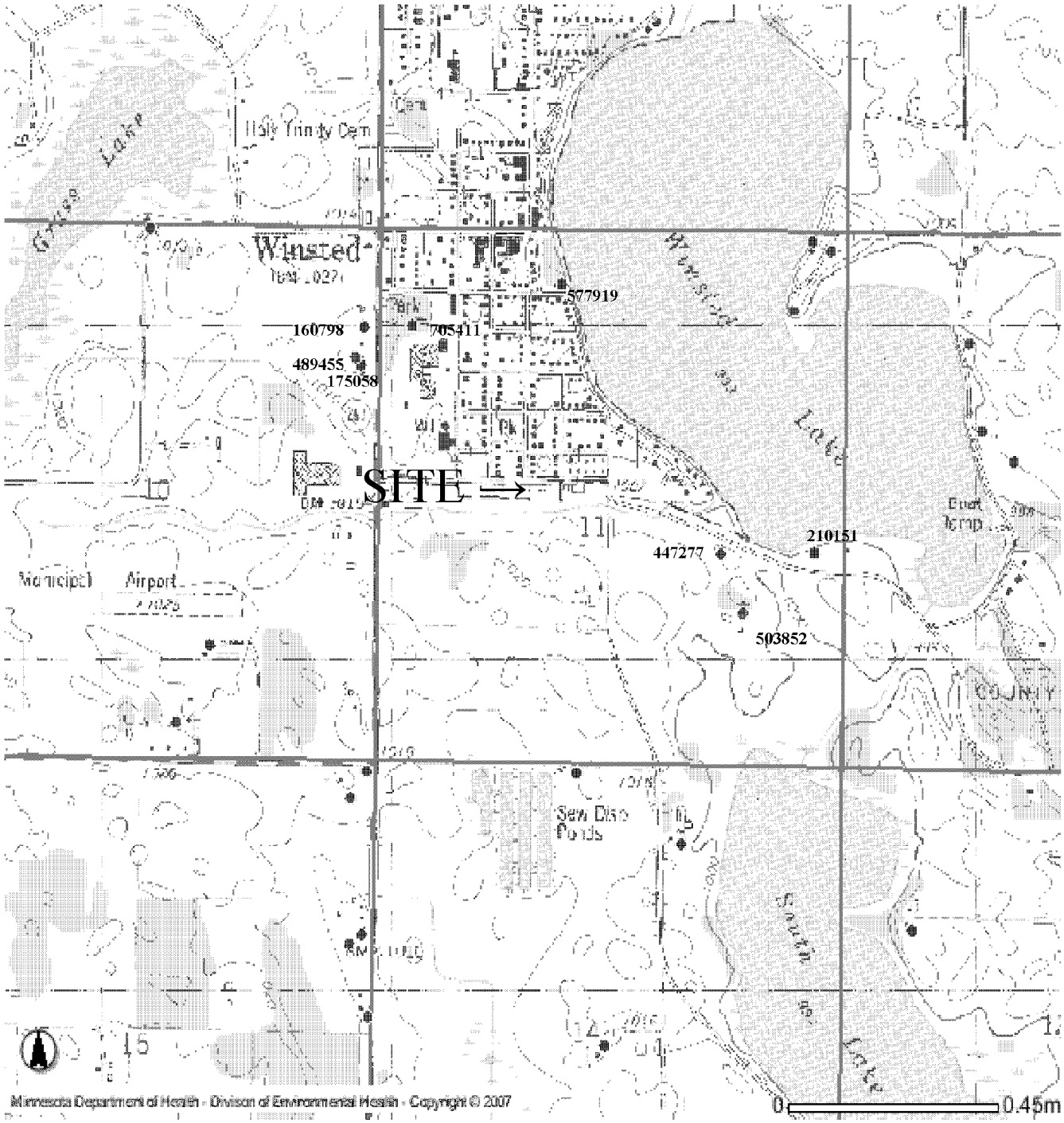
2222.1777

SITE SUMMARY

Site Name:	Winsted
Fire Department:	Winsted Fire Department 241 1st Street N. Winsted, MN 55395
Site Contact:	Chad Stender, 1st Assistant Fire Chief 320-485-2316 firechief@winsted.mn.us

Training Location:	Baker Avenue and 2nd Street S., Winsted
Type of foam used in training:	Other: Aqua Eco
Foam training frequency:	Bi-Annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Ground
Annual foam use:	Other: 1 stick Class A: 5 gallons
Nearest surface water:	Intermittent stream less than 1/8 mile south
Nearest wetland:	Less than 1/8 mile south
Nearest water well:	1/4 to 1/2 mile southeast
Nearest Wellhead Protection Area:	More than 1 mile
SITE RANKING:	**9**

WINSTED CWI Well Map



STATE_02822736

Winsted *What's In My Neighborhood* Map



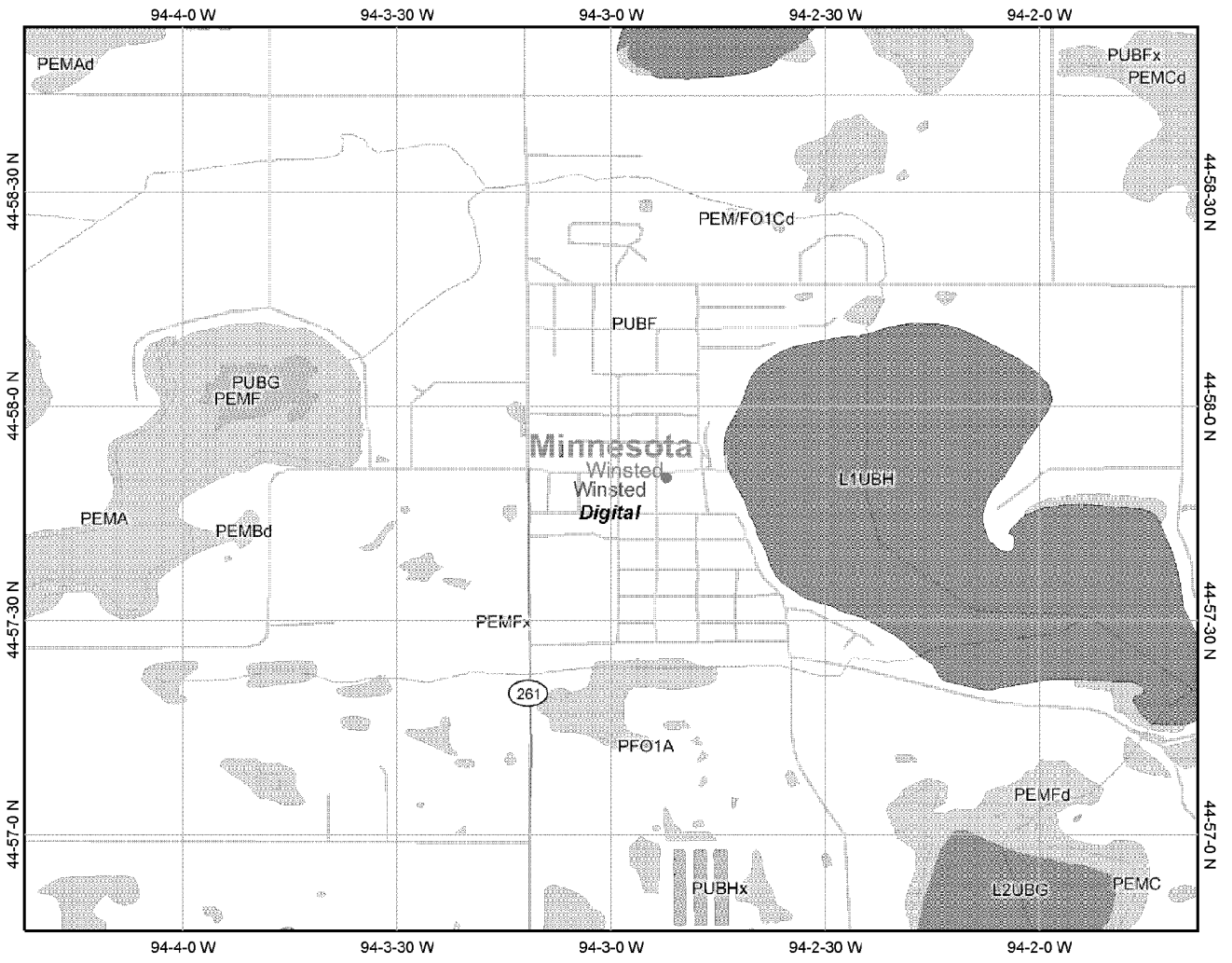
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Minnesota Pollution Control Agency

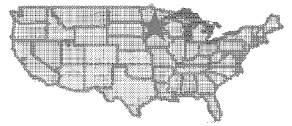
Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

Winsted Wetland Map



Map center: 44° 57' 50" N, 94° 3' 0" W



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:27,356

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2222.1781

STATE_02822738

Minnesota Unique Well No.
160798

County McLeod
Quad Winsted
Quad ID 107A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/11/1988
Update Date 12/29/2005
Received Date

Well Name HERTEL, JIM

Township	Range	Dir	Section	Subsections	Elevation
117	27	W	10	AADDAB	1024 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
133 ft.	133 ft.	08/06/1979

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 5.5 ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 129 ft.	11 lbs./ft.	6.25 in. to 133 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	12	4	129 ft. and 133 ft.

Well Address
RR 1
WINSTED MN

Geological Material	Color	Hardness	From	To
CLAY	YELLOW		0	19
CLAY	BLUE		19	96
SAND MUDDY			96	109
CLAY	BLUE		109	127
WATER & SAND			127	133

Static Water Level
45 ft. from Land surface Date Measured 08/06/1979

PUMPING LEVEL (below land surface)
ft. after 1.5 hrs. pumping 20 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Cuttings from 0 to 96 ft. 0.5 yrds.

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Address verification
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 416884 **Y:** 4979209

Nearest Known Source of Contamination
75 feet N direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☑ Not Installed Date Installed 08/07/1979
Manufacturer's name AERMOTOR Model number SD5012
HP 0.5 Volts 230
Length of drop Pipe 72 ft. Capacity 12 g.p.m
Type Submersible Material Galvanized

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Mattson Well Co. 86108 OESTRIECH, D.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report

160798

Printed 6/29/2008
HE-01205-07

STATE_02822739

2222.1782

Minnesota Unique Well No.
175058

County McLeod
Quad Winsted
Quad ID 107A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/11/1988
Update Date 12/29/2005
Received Date

Well Name MILLERBREND, CHARLES
Township Range Dir Section Subsections Elevation 1022 **ft.**
117 27 W 10 ADAABA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
139 **ft.**	139 **ft.**	10/10/1980

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 5.5 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 135 ft.	11 lbs./ft.	6.25 in. to 139 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	18	4	135 ft. and 139 ft.

Well Address
WINSTED MN 55395

Geological Material	Color	Hardness	From	To
CLAY	YELLOW		0	18
CLAY	BLUE		18	70
SAND			70	112
CLAY	BLUE		112	120
WATER & SAND			120	139

Static Water Level
45 ft. from Land surface Date Measured 10/10/1980

PUMPING LEVEL (below land surface)
50 ft. after 1 hrs. pumping 60 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
0.8 MILE SOUTH OF INTERSECTION OF HWY 261 & CO. RD. 6 ON 261

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Cuttings from 0 to 70 ft. 0.5 yrds.

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Information from neighbor
Date N/A

System *UTM - Nad83, Zone15, Meters*
X: 416872 **Y:** 4979093

Nearest Known Source of Contamination
75 feet N direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☑ Not Installed Date Installed 10/13/1980
Manufacturer's name AERMOTOR Model number SD5012
HP 0.5 Volts 230
Length of drop Pipe 72 ft. Capacity g.p.m
Type Submersible Material Galvanized

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Mattson Well Co. 86108 OESTRIECH, D.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report

175058

Printed 6/29/2008
HE-01205-07

STATE_02822740

2222.1783

Minnesota Unique Well No.

210151

County McLeod
Quad Winsted
Quad ID 107A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/11/1988
Update Date 12/29/2005
Received Date

Well Name STERNER, JERRY

Township Range Dir Section Subsections Elevation 1002 **ft.**

117 27 W 11 DAACDA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
155 **ft.**	154 **ft.**	06/01/1967

Drilling Method --

Drilling Fluid
--

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Well Address

WINSTED MN 55395

Casing Diameter	Weight	Hole Diameter
4 in. to 151 ft.	lbs./ft.	

Geological Material	Color	Hardness	From	To
TOP SOIL	BLACK		0	1
SANDY CLAY	YELLOW		1	18
SAND & GRAVEL	BROWN		18	23
SANDY CLAY	BLUE	HARD	23	76
SANDY CLAY	BLUE	SOFT	76	113
SANDY CLAY	BLUE	HARD	113	129
SANDY CLAY LENSED WITH SAND	BLUE	HARD	129	137
SANDY CLAY	BLUE	HARD	137	149
SAND	VARIED		149	155
SANDY CLAY	BLUE		155	155

Open Hole from ft. to ft.

Screen YES **Make** **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	50	3	151 ft. and 154 ft.

Static Water Level
38 ft. from Land surface Date Measured 06/01/1967

PUMPING LEVEL (below land surface)
45 ft. after hrs. pumping 100 g.p.m.

Well Head Completion
Pitless adapter manufacturer DUPLEX Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Information from owner
Date 08/20/2004
System *UTM - Nad83, Zone15, Meters*
X: 418431 **Y:** 4978527

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

2222.1784

STATE_02822741

	Pump ☑ Not Installed Date Installed 11/10/1975 Manufacturer's name BERKELEY Model number 4AM15 HP 0.75 Volts 230 Length of drop Pipe 63 ft. Capacity g.p.m Type Submersible Material Steel (black or low carbon)
	Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No
	Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No
First Bedrock **Last Strat** Clay & sand-gray **Aquifer** Quat. Buried Artes. Aquifer **Depth to Bedrock ft.**	**Well Contractor Certification** Fredrickson's 08317 SCHROEDER, F. License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	**210151** Printed 6/29/2008 HE-01205-07

2222.1785

STATE_02822742

Minnesota Unique Well No.
447277

County McLeod
Quad Winsted
Quad ID 107A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 07/18/1991
Update Date 12/29/2005
Received Date

Well Name GUTZMAN, RODNEY

Township	Range	Dir	Section	Subsections	Elevation	Elevation Method
117	27	W	11	DBADDB	1011 ft.	7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
130 ft.	130 ft.	07/25/1988

Drilling Method Non-specified Rotary

Geological Material	Color	Hardness	From	To
CLAY	YELLOW		0	20
CLAY	BLUE		20	118
WATER SAND			118	130

Drilling Fluid Additive (+ Bentonite)

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** Glued **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 6 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 126 ft.	lbs./ft.	6.25 in. to 130 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	10	4	126 ft. and 130 ft.

Static Water Level
40 ft. from Land surface Date Measured 07/25/1988

PUMPING LEVEL (below land surface)
45 ft. after 1 hrs. pumping 100 g.p.m.

Well Head Completion
Pitless adapter manufacturer WHITEWATER Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement	from 6 to 30 ft.	0.2 yrds.
Grout Material: Cuttings	from 30 to 100 ft.	0.6 yrds.

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Information from owner
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 418109 **Y:** 4978524

Nearest Known Source of Contamination
70 feet E direction Septic tank/drain field type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 07/27/1988
Manufacturer's name AERMOTOR Model number SD1250
HP 0.5 Volts 230
Length of drop Pipe 54 ft. Capacity 12 g.p.m
Type Submersible Material Galvanized

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

First Bedrock
Last Strat Sand
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

Well Contractor Certification
Mattson Well Co. 86108 OESTRIECH, D.
License Business Name Lic. Or Reg. No. Name of Driller

STATE_02822743

2222.1786

County Well Index Online Report	447277	Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
489455

County McLeod
Quad Winsted
Quad ID 107A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 03/26/1992
Update Date 12/29/2005
Received Date

Well Name MILLERBERND, RALPH
Township Range Dir Section Subsections Elevation 1023 **ft.**
117 27 W 10 AADDCC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
130 **ft.**	130 **ft.**	10/30/1991

Drilling Method Non-specified Rotary

Drilling Fluid Qwik gel

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** Glued **Drive Shoe?** ☐ Yes ☑ No **Above/Below** -6 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 126 ft.	lbs./ft.	6.25 in. to 130 ft.

Well Address
261 HY
WINSTED MN

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
3	12	4	126 ft. and 130 ft.

Geological Material	Color	Hardness	From	To
CLAY	YELLOW		0	25
CLAY	BLUE		25	75
SAND & CLAY			75	90
CLAY	BLUE		90	118
SAND			118	130

Static Water Level
42 ft. from Land surface Date Measured 10/30/1991

PUMPING LEVEL (below land surface)
50 ft. after 1 hrs. pumping 80 g.p.m.

Well Head Completion
Pitless adapter manufacturer WHITEWATER Model B432164
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement	from 6 to 30 ft.	0.1 yrds.
Grout Material: Cuttings	from 30 to ft.	0

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Information from owner
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 416852 **Y:** 4979117

Nearest Known Source of Contamination
100 feet South East direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☑ Not Installed Date Installed 11/15/1991
Manufacturer's name AERMOTOR Model number SD1250
HP 0.5 Volts 230
Length of drop Pipe 60 ft. Capacity 12 g.p.m
Type Submersible Material Stainless Steel

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Mattson Well Co. 86108 OESTREICH, D.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

STATE_02822745

2222.1788

County Well Index Online Report	489455	Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
503852

County McLeod
Quad Winsted
Quad ID 107A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 07/18/1991
Update Date 12/29/2005
Received Date

Well Name GUTZMAN, RODNEY
Township Range Dir Section Subsections Elevation 1009 **ft.**
117 27 W 11 DACCAC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
130 ft.	130 ft.	09/25/1989

Drilling Method Non-specified Rotary

Drilling Fluid Additive (+ Bentonite)
Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below** -6 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 126 ft.	lbs./ft.	6.25 in. to 130 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	10	4	126 ft. and 130 ft.

Geological Material	Color	Hardness	From	To
CLAY	YELLOW		0	25
CLAY	BLUE		25	110
WATER SAND			110	130

Static Water Level
28 ft. from Land surface Date Measured 09/25/1989

PUMPING LEVEL (below land surface)
50 ft. after 1 hrs. pumping 50 g.p.m.

Well Head Completion
Pitless adapter manufacturer WHITEWATER Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement	from 6 to 30 ft.	0.1 yrds.
Grout Material: Cuttings	from 30 to 90 ft.	0.3 yrds.

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Information from owner
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 418185 **Y:** 4978346

Nearest Known Source of Contamination
80 feet N direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☑ Not Installed Date Installed 09/28/1989
Manufacturer's name AERMOTOR Model number SD20100
HP 1 Volts 230
Length of drop Pipe 72 ft. Capacity 25 g.p.m
Type Submersible Material Galvanized

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Mattson Well Co. 86108 OESTERIECH, D
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

STATE_02822747

2222.1790

County Well Index Online Report	503852	Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
577919

County McLeod
Quad Winsted
Quad ID 107A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 10/17/1996
Update Date 01/04/2006
Received Date

Well Name WINSTED LAKE PART
Township Range Dir Section Subsections Elevation 1012 **ft.**
117 27 W 11 BAACCB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
120 ft.	120 ft.	05/31/1996

Drilling Method Non-specified Rotary

Drilling Fluid Qwik gel

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic **Joint** Glued **Drive Shoe?** ☐ Yes ☑ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 114 ft.	lbs./ft.	6.75 in. to 120 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
3	18	6	114 ft. and 120 ft.

Well Address
113 1ST ST S
WINSTED MN

Geological Material	Color	Hardness	From	To
CLAY	YELLOW		0	20
CLAY	BLUE		20	100
SAND			100	120

Static Water Level
25 ft. from Land surface Date Measured 05/31/1996

PUMPING LEVEL (below land surface)
48 ft. after 1 hrs. pumping 100 g.p.m.

Well Head Completion
Pitless adapter manufacturer WHITEWATER Model SNAPPY
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: High solids bentonite from 6 to 30 ft.

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Address verification
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 417563 **Y:** 4979337

Nearest Known Source of Contamination
60 feet E direction Body of water type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 06/12/1996
Manufacturer's name AERMOTOR Model number A50B150
HP 1.5 Volts 230
Length of drop Pipe 60 ft. Capacity 50 g.p.m
Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

First Bedrock
Last Strat Sand
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

Well Contractor Certification
Mattson Well Co. 86108 OESTREICH, D.
License Business Name Lic. Or Reg. No. Name of Driller

STATE_02822749

2222.1792

County Well Index Online Report	577919	Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
705411

County McLeod
Quad Winsted
Quad ID 107A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 07/21/2004
Update Date 01/20/2006
Received Date 06/15/2004

Well Name WINSTED TW
Township Range Dir Section Subsections Elevation 1012 **ft.**
117 27 W 11 BBCACC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
583 ft.	583 ft.	04/02/2004

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☑ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
8 in. to 272 ft.	28.55 lbs./ft.	8 in. to 272 ft.
4 in. to 470 ft.	10.79 lbs./ft.	8 in. to 470 ft.

Open Hole from 470 ft. to 583 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
TOP SOIL	BLACK	SOFT	0	2
CLAY/GRAVEL	GRAY	MEDIUM	0	113
CLAY/GRAVEL	BROWN	SOFT	2	25
CLAY/GRAVEL/SAND	BROWN	SOFT	25	95
SAND/GRAVEL	BROWN		95	105
CLAY/GRAVEL GRANITE ROCK @105	RED/WHT	HARD	105	113
GRANITE ROCK	PNK/WHT	HARD	113	115
SANDY CLAY	GRAY	MEDIUM	115	117
SAND/GRAVEL	BROWN	MEDIUM	117	125
SAND	BROWN	MEDIUM	125	130
SAND/GRAVEL	BROWN	MEDIUM	130	190
SAND/GRAVEL	GRAY	MEDIUM	190	195
CLAY/SILTY SMEARY	GRAY	SOFT	195	249
CLAY/SILTY SMEARY	GRAY	SOFT	249	258
CLAY/SILTY SMEARY	GRAY	SOFT	258	267
SHALE WHT/GRN/BRN		SOFT	267	330
SHALE	GRN/BRN	HARD	330	345
SHALE	ORN/RED	M.SOFT	345	368
SHALE	LT. GRN	MEDIUM	368	370
SHALE	RED/ORN	M.HARD	370	379
SHALE	LT. GRN	MEDIUM	379	449
SANDSTONE LT. GRN/YEL 10-30 SLT			449	453
SANDSTONE LT. GRN/YEL 10-30 SLT			453	581
SHALE LT. GRN/WHT		HARD	581	583

Static Water Level
120 ft. from Land surface Date Measured 04/20/2004

PUMPING LEVEL (below land surface)
128 ft. after 4 hrs. pumping 55 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
HOLE FILLED IN TO 504' WITH SAND.
M.G.S. NO. 4314. TO 345 FT. GAMMA LOGGED BY DOWNHOLE GEOPHYSICS.
WELL SEALED 3-9-2005 BY MARK J. TRAUT WELLS, INC. SEALING NO. H-232124.
THIS WAS A TEST WELL FOR THE CITY OF WINSTED.

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement from 0 to 470 ft. 5 yrds.

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)

Unique Number Verification Information from owner
Date 01/04/2006

System *UTM - Nad83, Zone15, Meters* **X:** 417047 **Y:** 4979213

Nearest Known Source of Contamination
_feet _direction _type

Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Cuttings Yes **Borehole Geophysics** Yes
First Bedrock Cretaceous,Undiff.
Last Strat Mt.Simon
Aquifer Mt.Simon
Depth to Bedrock 249 **ft.**

Well Contractor Certification

License Business Name	Lic. Or Reg. No.	Name of Driller
Traut, Mark J. Wells	73646	POHLKAMP, D.

County Well Index Online Report

705411

Printed 6/29/2008
IIE-01205-07

STATE_02822751

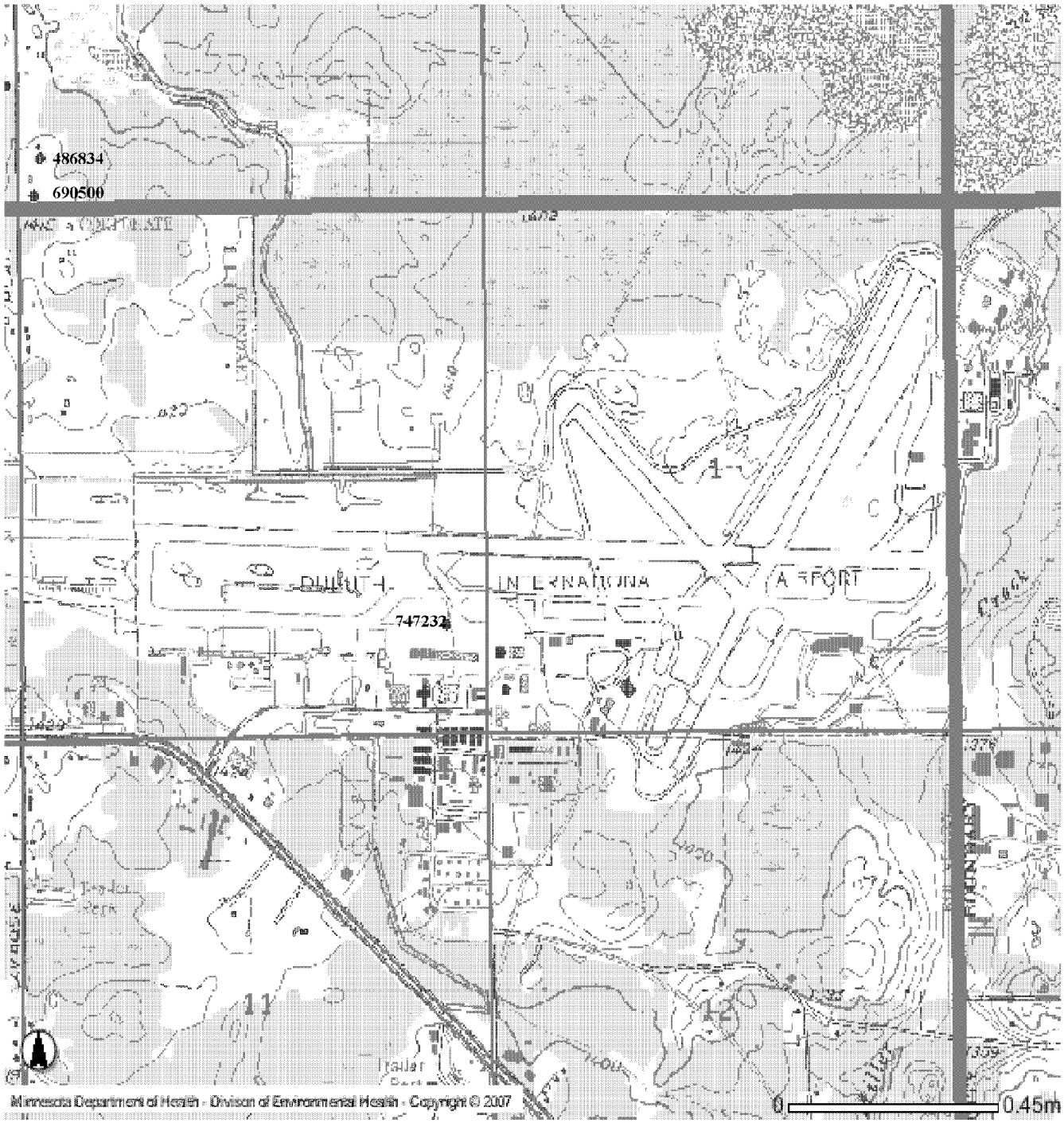
2222.1794

SITE SUMMARY

Site Name:	Duluth Airport
Fire Department:	148th Minnesota Air National Guard Duluth, MN
Site Contact:	Dave Dodge, Fire Chief 218-788-7273 david.dodge@mndulu.ang.af.mil John Farnham, Senior Airfield Firefighter 218-788-7434

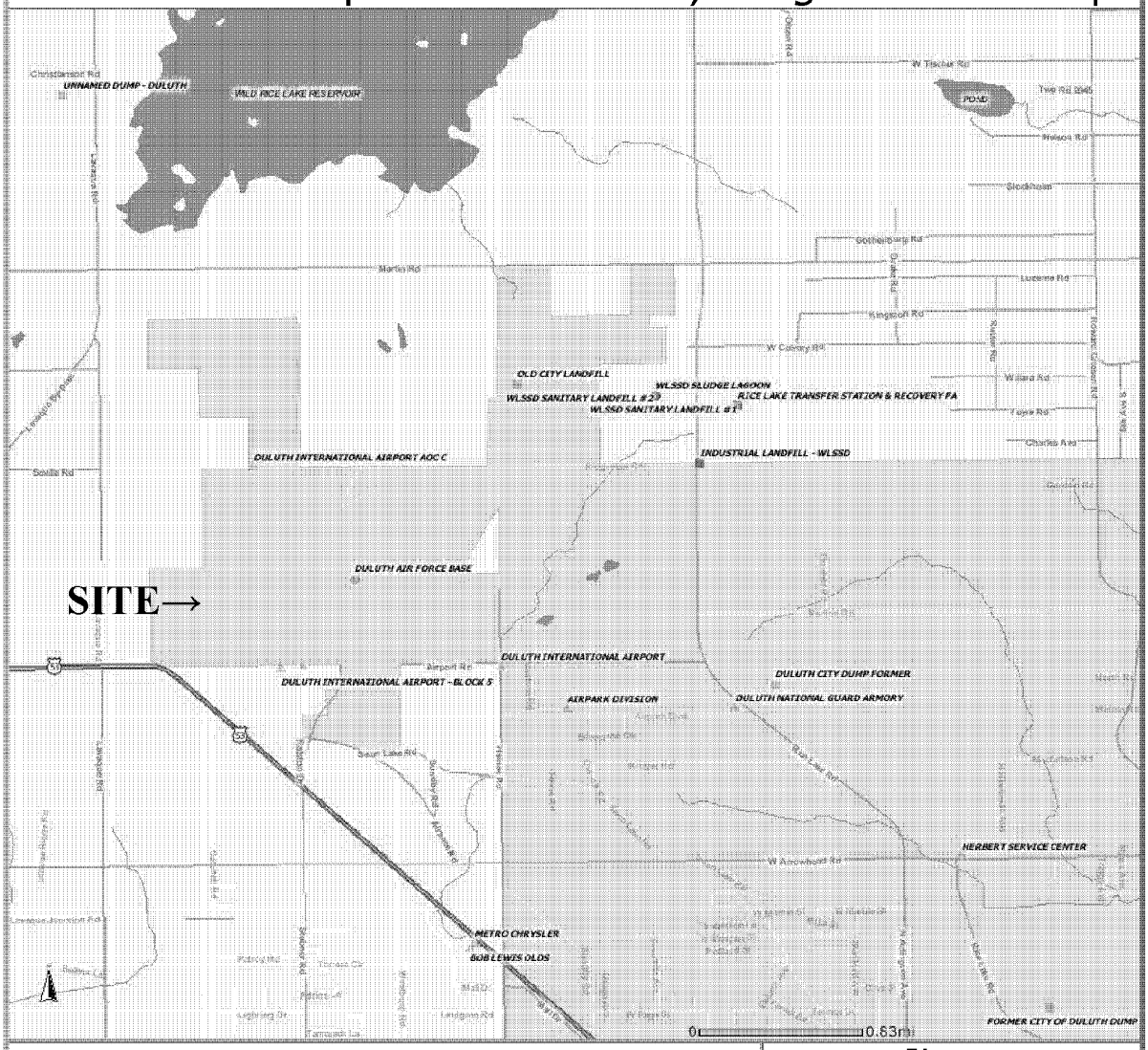
Training Location:	No current training with foam. For the purpose of this assessment, the entire airport was treated as the Site.
Type of foam used in training:	No foam used in training Chemguard and 3M AFFF used in fire response
Foam training frequency:	Not Applicable
Foam use per training event:	Not Applicable
Spent foam destination:	Unknown
Annual foam use:	AFFF - up to 100 gallons
Nearest surface water:	Unnamed creeks at the north and east sides of the air field
Nearest wetland:	Along north and east sides of airport
Nearest water well:	on airport grounds
Nearest Wellhead Protection Area:	None within one mile
SITE RANKING:	**23**

DULUTH AIRPORT CWI Well Map



STATE_02822753

Duluth Intl. Airport *What's In My Neighborhood* Map



Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

Minnesota Pollution Control Agency

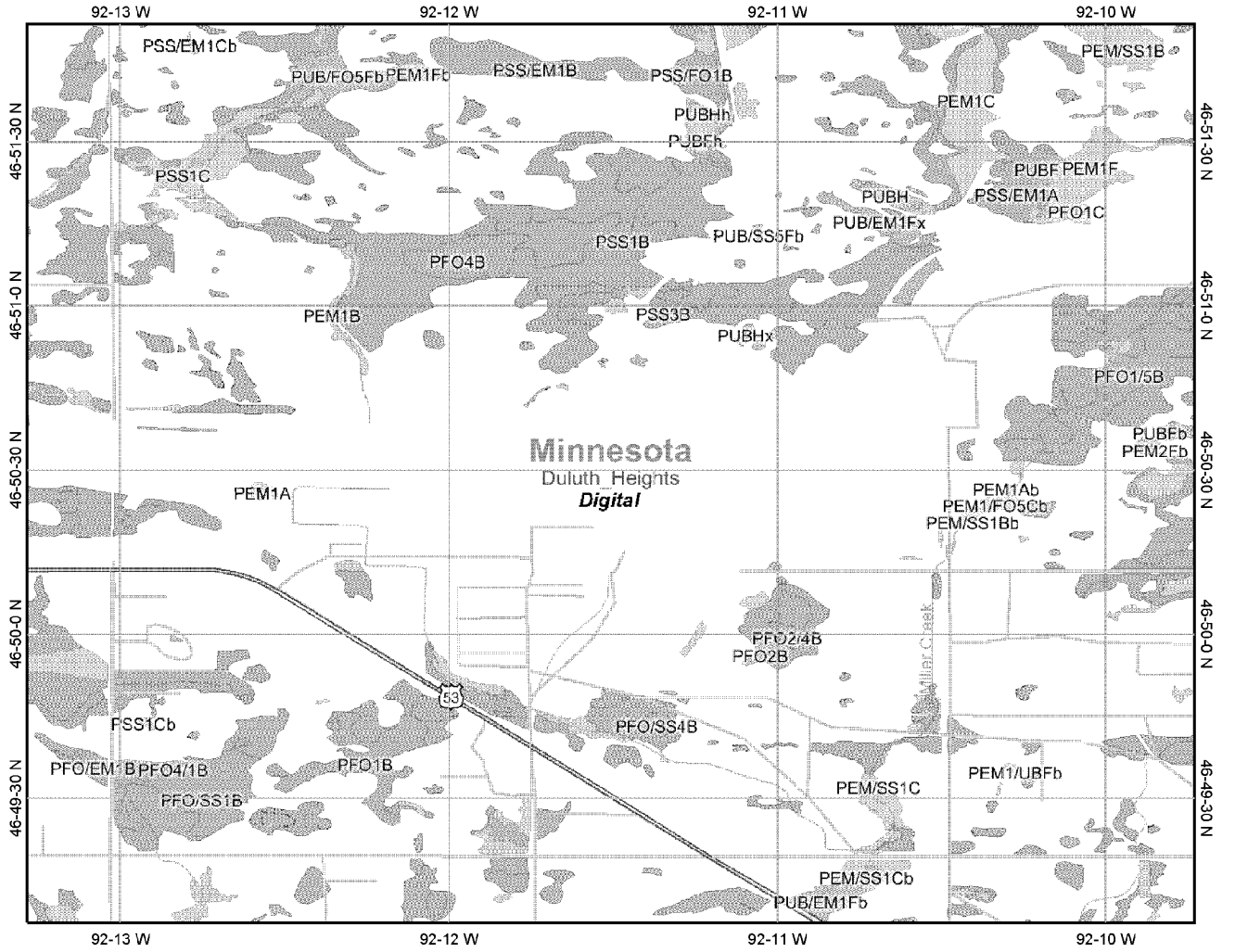
Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NPL/AP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

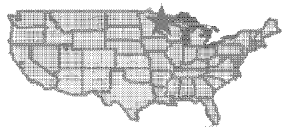
STATE_02822754

2222.1797

Duluth Airport Wetland Map



Map center: 46° 50' 29" N, 92° 11' 30" W



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:35,457

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

2222.1798

STATE_02822755

Minnesota Unique Well No.
486834

County St. Louis
Quad Duluth Heights
Quad ID 244C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 05/04/1993
Update Date 11/20/2007
Received Date

Well Name VAN GUILDER, JAMES
Township Range Dir Section Subsections Elevation 1413 **ft.**
51 15 W 35 CCCBAC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
29 **ft.**	29 **ft.**	06/10/1992

Drilling Method Dug

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 1 **ft.**

Casing Diameter	Weight	Hole Diameter

Open Hole from ft. to ft.

Screen YES **Make** **Type** slotted pipe

Diameter	Slot/Gauze	Length	Set Between
			21 ft. and 28 ft.

Well Address
4718 LAVAQUE RD
DULUTH MN 55811

Geological Material	Color	Hardness	From	To
TOP SOIL, GRAVEL	BROWN	SOFT	0	2
MIXED CLAY & GRAVEL		MEDIUM	2	29

Static Water Level
2 ft. from Land surface Date Measured 06/27/1992

PUMPING LEVEL (below land surface)
20 ft. after 2 hrs. pumping 15 g.p.m.

Well Head Completion
Pitless adapter manufacturer MAASS Model 6J1
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
2 INCHES BENTONITE CAP APPLIED OVER PETRO-MAT. 1 INCH CLAY CAP ON TOP.

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Bentonite from to ft.

Located Minnesota Geological Survey **Method** Digitization (Screen) - Map (1:24,000)
Unique Number Verification Address verification **Date** 09/14/2007
System *UTM - Nad83, Zone15, Meters* **X:** 559768 **Y:** 5189068

Nearest Known Source of Contamination
200 feet N direction Septic tank/drain field type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed 07/01/1992
Manufacturer's name STA-RITE Model number 10P4C02T HP 0.5 Volts 230
Length of drop Pipe 20 ft. Capacity 10 g.p.m Type Submersible Material Plastic

Abandoned Wells Does property have any not in use and not sealed well(s)? ☑ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Aqua Systems 69438 MADISON, D.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Pebbly sand/silt/clay
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **486834** | Printed 6/15/2008 HE-01205-07

Minnesota Unique Well No.
690500

County St. Louis
Quad Duluth Heights
Quad ID 244C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date
Update Date 11/20/2007
Received Date 12/18/2003

Well Name VAN GUILDER, JAMES

Township	Range	Dir	Section	Subsections	Elevation	Elevation Method
51	15	W	35	CCCCCA	1414 ft.	7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
325 ft.	325 ft.	11/20/2003

Drilling Method Multiple methods used

Drilling Fluid Water

Well Hydrofractured? ☑ Yes ☐ No From 50 Ft. to 325 Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☑ Yes ☐ No **Above/Below** ft.

Casing Diameter	Weight	Hole Diameter
6 in. to 24 ft.	19.45 lbs./ft.	6 in. to 24 ft.
		6 in. to 325 ft.

Open Hole from 24 ft. to 325 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
4708 LAVAGUE RD
DULUTH MN 55811

Geological Material	Color	Hardness	From	To
CLAY, SAND & ROCKS	BROWN	SOFT	0	6
SAND & ROCKS	BROWN	MEDIUM	6	22
GABBRO	BLACK	M.SOFT	22	110
QUARTZ	BLK/WHT	MEDIUM	110	115
GABBRO	BLACK	MEDIUM	115	325

Static Water Level
2.7 ft. from Land surface Date Measured 11/10/2003

PUMPING LEVEL (below land surface)
120 ft. after 4 hrs. pumping 2 g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model SNAPPY
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
OLD WELL SEALED H-200691 NOT SEALED.

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Bentonite from to 24 ft. 2 bags

Located Minnesota Geological Survey **Method** Digitization (Screen) - Map (1:24,000)
Unique Number Verification Address verification **Date** 09/14/2007
System *UTM - Nad83, Zone15, Meters* **X:** 559746 **Y:** 5188954

Nearest Known Source of Contamination
50 feet N direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification

License Business Name	Lic. Or Reg. No.	Name of Driller
Petersen Well Co.	69183	PETERSEN, D.

First Bedrock Duluth Complex
Last Strat Duluth Complex
Aquifer Duluth Complex
Depth to Bedrock 22 ft.

County Well Index Online Report **690500** Printed 6/15/2008 HE-01205-07

Minnesota Unique Well No.
747232

County St. Louis
Quad Duluth Heights
Quad ID 244C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 03/06/2007
Update Date 11/15/2007
Received Date 12/06/2006

Well Name MW-13

Township	Range	Dir	Section	Subsections	Elevation
50	15	W	2	DDABDB	1419 ft.

Elevation Method Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
19 ft.	18 ft.	10/13/2006

Drilling Method Hollow Stem Auger

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Monitor well

Casing Type Plastic **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below** ft.

Casing Diameter	Weight	Hole Diameter
2 in. to 8 ft.	0.69 lbs./ft.	9 in. to 19 ft.

Open Hole from ft. to ft.

Screen YES **Make** MONOFLEX **Type** plastic

Diameter	Slot/Gauze	Length	Set Between
2	10	10	8 ft. and 18 ft.

Well Address
4931 AIRPORT RD
DULUTH MN 55802

Geological Material	Color	Hardness	From	To
SANDY SILT	BROWN	SOFT	0	4
CLAY	BROWN	SOFT	4	8
SANDY SILT	BROWN	SOFT	8	19

Static Water Level
12 ft. from Land surface Date Measured 10/13/2006

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☑ At-grade (Environmental Wells and Borings ONLY)

REMARKS
MW-13

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Bentonite from to 6 ft. 3 bags

Located Minnesota Department of Health **Method** GPS SA Off (averaged)
Unique Number Verification N/A **Date** 10/12/2006
System *UTM - Nad83, Zone15, Meters* **X:** 561170 **Y:** 5187658

Nearest Known Source of Contamination
0 feet direction type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number HP Volts
Length of drop Pipe ft. Capacity g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☑ Yes ☐ No

First Bedrock
Last Strat Unknown deposit type
Aquifer
Depth to Bedrock ft.

Well Contractor Certification
Mark J Traut Wells, Inc. 1404 FAUTSCH, K.
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report **747232** Printed 6/15/2008
HE-01205-07

STATE_02822758

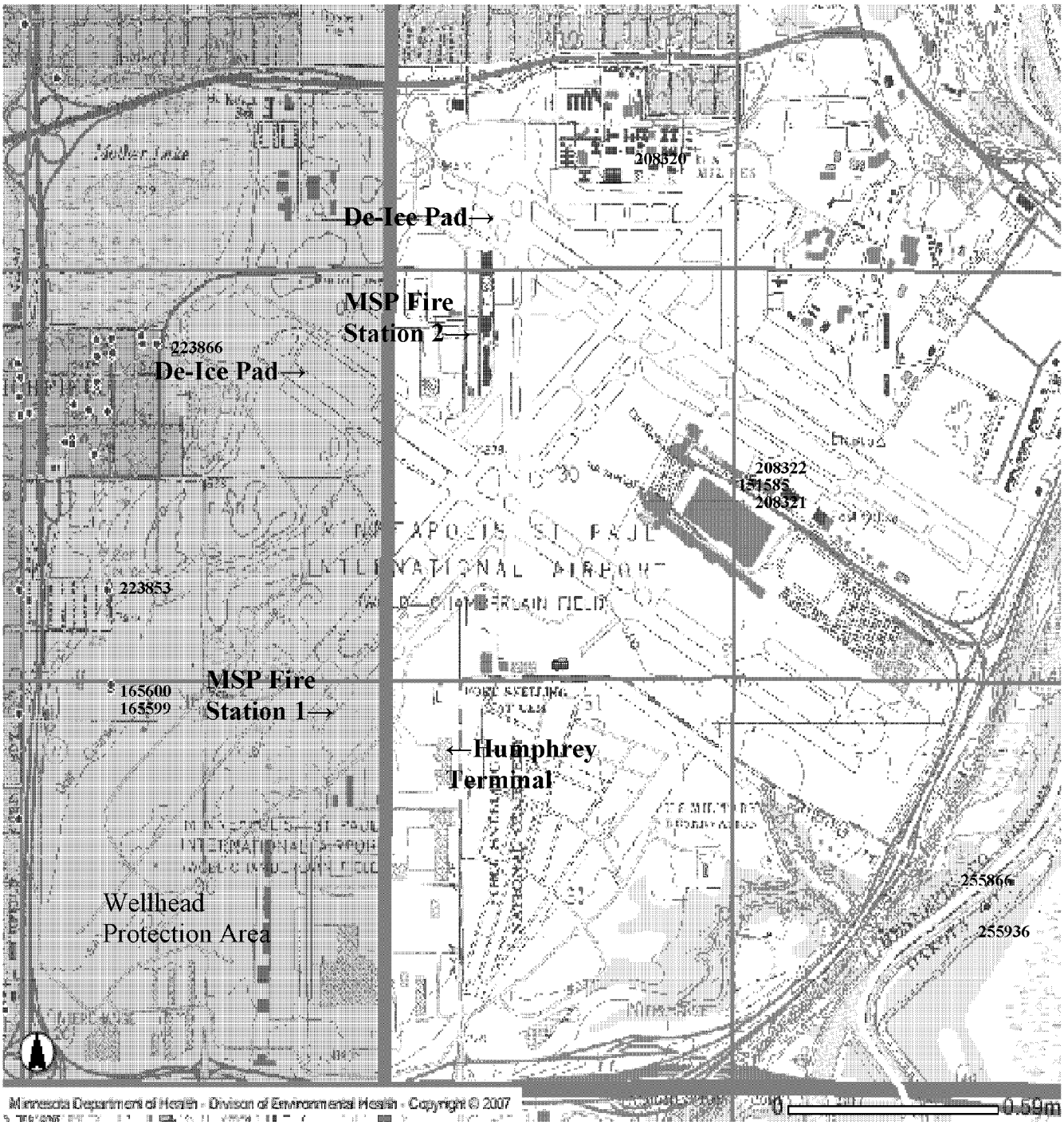
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SITE SUMMARY

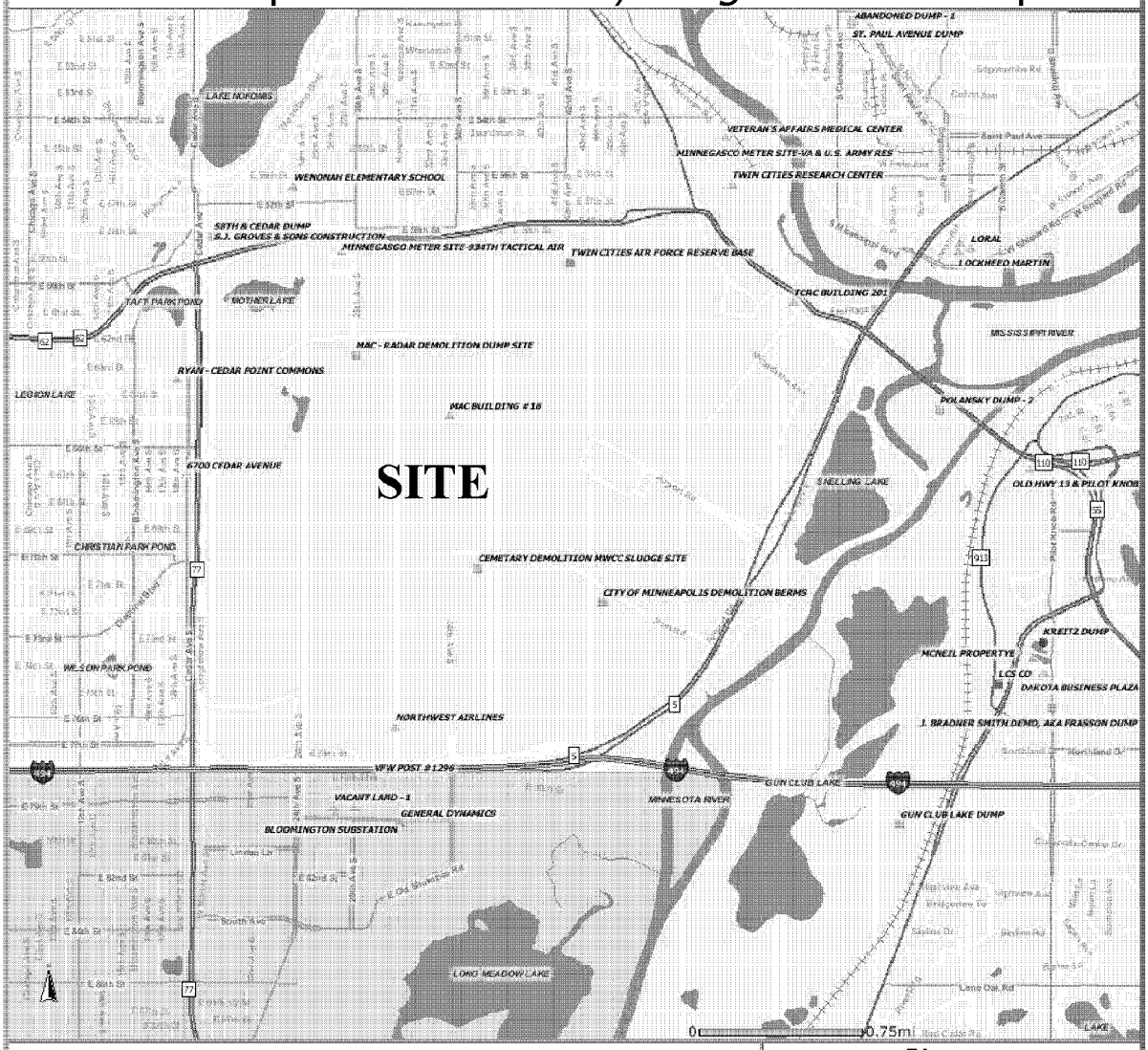
Site Name:	MSP Airport
Fire Department:	MSP Airport Fire Department Metropolitan Airports Commission
Site Contact:	Toni Howell, MAC Manager, Environmental Affairs 612-726-8100 thowell@mspmac.org

Training Location:	Training conducted on plugged concrete area at MSP, which is pumped out and disposed off-site to sanitary sewer system by a licensed contractor. Training at Humphrey remote ramp or a de-icing pad with covered/plugged drains.
Type of foam used in training:	AFFF: Ansul 3% (current); 3M (historic)
Foam training frequency:	Quarterly
Foam use per training event:	5 to 10 gallons
Spent foam destination:	Shipped off-site for disposal to sanitary sewer system
Annual foam use:	AFFF: 200 to 250 gallons Class B Protein: historic use (1960s/1970s), amount and training use unknown Class A: 5 gallons
Nearest surface water:	Minnesota River less than 1/4 mile south; Mother Lake adjacent to northwest end of airport.
Nearest wetland:	Adjacent west, northwest and south of airport
Karst Area:	Site appears to be located in an active karst area
Nearest water well:	On airport property
Nearest Wellhead Protection Area:	Western portion of airport is in a Wellhead Protection Area
SITE RANKING:	**33**

MINNEAPOLIS-ST. PAUL INTERNATINAL AIRPORT CWI Well Map



MSP Airport *What's In My Neighborhood* Map



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Minnesota Pollution Control Agency

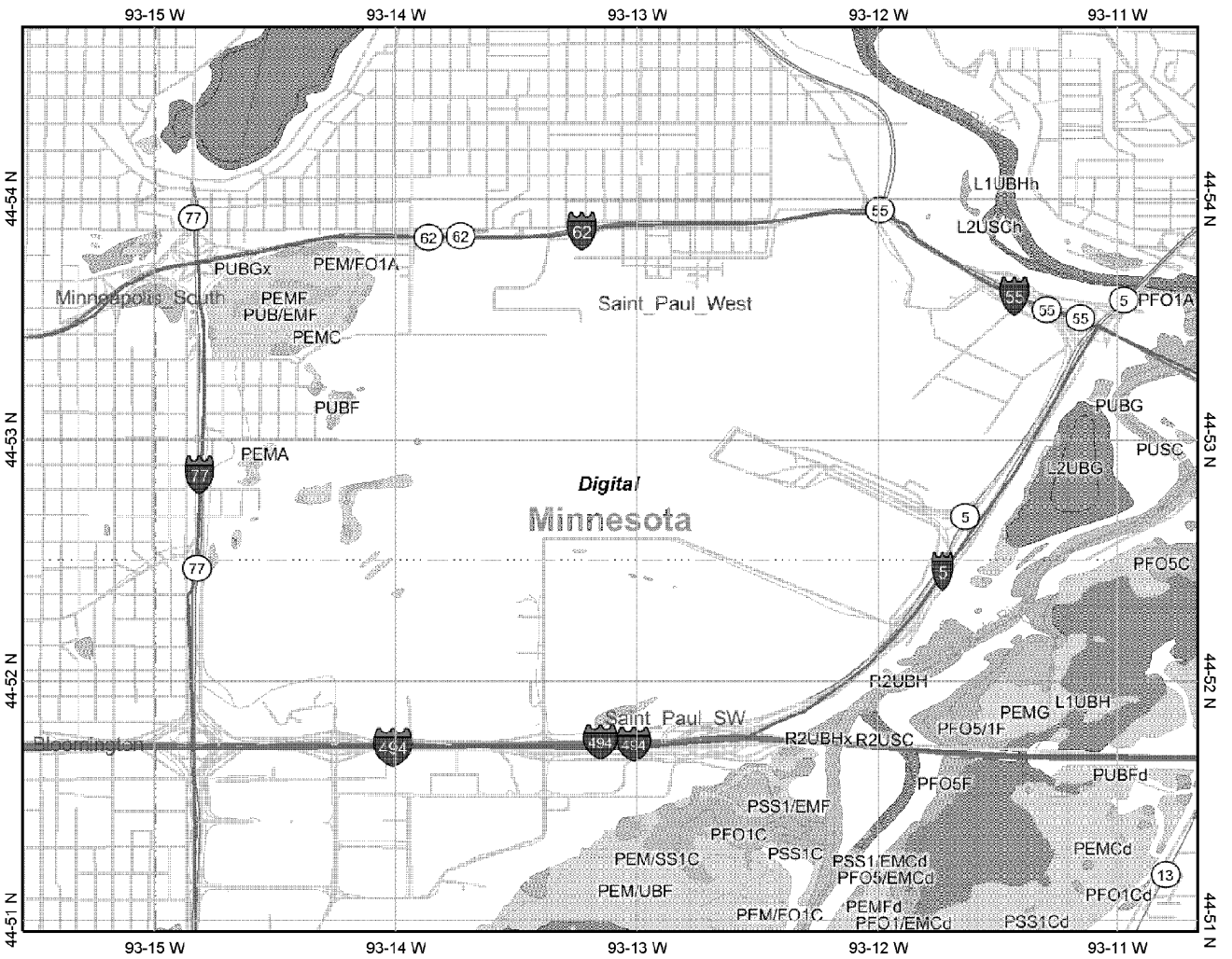
Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- HFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

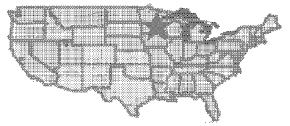
STATE_02822761

2222.1804

MSP Wetland Map



Map center: 44° 52' 50" N, 93° 13' 7" W



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:48,776

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2222.1805

STATE_02822762

Minnesota Unique Well No.
151585

County Hennepin
Quad St Paul West
Quad ID 103B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/24/1991
Update Date 10/20/2006
Received Date

Well Name INTERNATIONAL AIRPORT 3
Township Range Dir Section Subsections Elevation 818 **ft.**
28 23 W 29 CBBBBA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
432 ft.	432 ft.	09/00/1986

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 2 **ft.**

Casing Diameter	Weight	Hole Diameter
24 in. to 12 ft.	lbs./ft.	
18 in. to 230 ft.	lbs./ft.	

Open Hole from 230 ft. to 432 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
AIRPORT DR
MINNEAPOLIS MN 55111

Geological Material	Color	Hardness	From	To
FILL	BROWN		0	7
PLATTVILLE	GRAY	HARD	7	33
SHALE	GRAY	MEDIUM	33	36
ST. PETER (SANDROCK)	YELLOW	MEDIUM	36	151
SHALE	GRAY	MEDIUM	151	201
SHAKOPEE LIMEROCK	GRAY		201	329
JORDAN - SANDROCK	WHITE		329	432

Static Water Level
90.4 ft. from Land surface Date Measured 07/00/1986

PUMPING LEVEL (below land surface)
141.75 ft. after 8 hrs. pumping 1500 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
M.G.S. NO. 2610.
WELL SEALED 10-19-1998. H-141954.
WELL SEALED 10-19-1998 BY 62012
ORIGINAL USE CO - COMMERCIAL

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Neat Cement from to 230 ft. 46 yrds.

Located Minnesota Geological Survey
Method Public Land Survey - QQQQQQ Section
Unique Number Verification Information from owner
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 483660 **Y:** 4970036

Nearest Known Source of Contamination
1000 feet E direction Body of water type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 07/00/1986
Manufacturer's name PEERLESS Model number OIL LUB HP 125 Volts 460
Length of drop Pipe 200 ft. Capacity 1400 g.p.m Type Turbine Material Steel (black or low carbon)

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Cuttings Yes
First Bedrock Platteville
Last Strat Jordan
Aquifer Prairie Du Chien-Jordan
Depth to Bedrock 7 **ft.**

Well Contractor Certification
Keys Well Co. 62012 SITTIG, R.
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report | **151585** | Printed 6/29/2008 HE-01205-07

STATE_02822763

2222.1806

Minnesota Unique Well No.
165599

County Hennepin
Quad St Paul West
Quad ID 103B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/24/1991
Update Date 05/06/2005
Received Date

Well Name RICHFIELD GOLF COURSE
Township Range Dir Section Subsections Elevation 827 **ft.**
28 24 W 36 BBAAAA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
258 ft.	258 ft.	05/03/1979

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
6 in. to 178 ft.	lbs./ft.	

Open Hole from 178 ft. to 258 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
90 ft. from Land surface Date Measured 05/03/1979

PUMPING LEVEL (below land surface)
116 ft. after hrs. pumping 100 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address

RICHFIELD MN

Geological Material	Color	Hardness	From	To
SAND	VARIED		0	4
SANDY CLAY	BROWN		4	21
GRAVEL	BROWN		21	44
CLAY & SOME GRAVEL	BROWN		44	64
CLAY & SOME GRAVEL	BROWN		64	150
CLAY & GRAVEL	VARIED		150	171
SHALE & SANDSTONE	YELLOW		171	194
LIMESTONE	YELLOW		194	258

REMARKS
M.G.S. NO. 1501 & 2094.
M.P.-.92 GLEN LENTNER 861-6505
OSP - OPC
WELL SEALED 03-30-2000 BY 00123
ORIGINAL USE PS - PUBLIC SUPPLY/NON-COMMUNITY

Grouting Information Well Grouted? ☐ Yes ☐ No

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Located Minnesota Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number
Verification Information from owner **Date** N/A

System *UTM - Nad83, Zone15, Meters* **X:** 480815 **Y:** 4969205

Pump ☑ Not Installed Date Installed
Manufacturer's name RED JACKET Model number 8DC
__ HP 2 Volts 230
Length of drop Pipe 126 ft. Capacity 35 g.p.m
Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Cuttings Yes
First Bedrock St.Peter **Aquifer** Multiple
Last Strat Prairie Du Chien Group **Depth to Bedrock** 171 **ft.**

Well Contractor Certification
Renner E.h. & Sons 02015
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report | **165599** | Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
165600

County Hennepin
Quad St Paul West
Quad ID 103B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/24/1991
Update Date 05/06/2005
Received Date

Well Name RICHFIELD GOLF COURSE
Township Range Dir Section Subsections Elevation 827 **ft.**
28 24 W 36 BBAAAA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
338 ft.	338 ft.	07/00/1979

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Well Address
RICHFIELD MN

Casing Diameter	Weight	Hole Diameter
20 in. to 181 ft.	lbs./ft.	

Open Hole from 181 ft. to 338 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
SAND	BROWN		0	20
GRAVEL	GRAY		20	40
CLAY	GRAY		40	55
GRAVEL	GRAY		55	65
CLAY	GRAY		65	140
HARDPAN	GRAY		140	160
SANDY SHALE	GRAY		160	170
SHALEY SANDSTONE	YELLOW		170	175
SANDSTONE	GRAY		175	200
LIMESTONE	GRAY		200	338

Static Water Level
95 ft. from Land surface Date Measured 07/00/1979

PUMPING LEVEL (below land surface)
150 ft. after hrs. pumping 1300 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
M.G.S. NO. 1602
M.G.S.#1602.
M.P.? GLEN LENTNER 861-6505
WELL SEALED 03-24-2000 BY 00123
ORIGINAL USE IR - IRRIGATION

Grouting Information Well Grouted? ☐ Yes ☐ No

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Located Minnesota Geological Survey **Method** Digitization (Screen) - Map (1:24,000)

Unique Number
Verification Information from owner **Date** 10/09/2002

System *UTM - Nad83, Zone15, Meters* **X:** 480816 **Y:** 4969223

Pump ☑ Not Installed Date Installed
Manufacturer's name JACUZZI Model number 12MCZ
__ HP 200 Volts 460
Length of drop Pipe 200 ft. Capacity 1100 g.p.m Type Jet Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Cuttings Yes
First Bedrock St.Peter **Aquifer** Multiple
Last Strat Prairie Du Chien Group **Depth to Bedrock** 160 **ft.**

Well Contractor Certification
Renner E.h. & Sons 02015
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report | **165600** | Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
208320

County Hennepin
Quad St Paul West
Quad ID 103B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/24/1991
Update Date 06/03/2004
Received Date

Well Name NAVAL AIR STAT.
Township Range Dir Section Subsections Elevation 845 **ft.**
28 23 W 19 DBDDBB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
446 **ft.**	446 **ft.**	06/09/1943

Drilling Method --

Well Address
BLOOMINGTON MN

Geological Material	Color	Hardness	From	To
SAND AND CLAY			0	3
SAND			3	18
ROCKS AND HARDPAN			18	29
CLAY AND ROCKS			29	56
BLUE CLAY	BLUE		56	83
HARD SANDY CLAY AND WOOD			83	110
SANDROCK			110	175
SANDROCK AND SHALE			175	224
SHAKOPEE			224	350
JORDAN SANDROCK			350	410
JORDAN WITH SHALE			410	446

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Commercial

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter **Weight** **Hole Diameter**

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter **Slot/Gauze** **Length** **Set Between**

Static Water Level
135 ft. from Land surface Date Measured 08/02/1988

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
CASING: 24" TO 102; 16" TO 236.
M.P.-1.0 JESSE BARNABY 725-5370/5360
GAMMA LOGGED 4/7/89.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification N/A **Date** N/A

System *UTM - Nad83, Zone15, Meters* **X:** 483180 **Y:** 4971333

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed
Manufacturer's name FAIRBANKS MORSE Model number ___ HP 50 Volts 230
Length of drop Pipe _ft. Capacity 1000 g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Borehole Geophysics Yes
First Bedrock St.Peter **Aquifer** Multiple
Last Strat Jordan **Depth to Bedrock** 110 **ft.**

Well Contractor Certification
Keys Well Co. 62012
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report | **208320** | Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
208321

County Hennepin
Quad St Paul West
Quad ID 103B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/24/1991
Update Date 10/20/2006
Received Date

Well Name METROPOLITAN AIRPORT 2
Township Range Dir Section Subsections Elevation 815 **ft.**
28 23 W 29 CBBBBA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
400 **ft.**	400 **ft.**	06/22/1970

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
16 in. to 204 ft.	lbs./ft.	

Open Hole from 204 ft. to 400 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
125 ft. from Land surface Date Measured 07/18/1988

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
BLOOMINGTON MN

Geological Material	Color	Hardness	From	To
PLATTEVILLE LIMESTONE			0	36
SHALE	BLUE		36	43
ST. PETER SANDSTONE			43	194
SHAKOPEE			194	323
JORDAN SANDSTONE			323	400

REMARKS
M.G.S. NO. 546.
PUMPING LEVEL ON 7/18 – 150'
WELL NO.2.
WELL SEALED 11-15-2000 BY 62012.
ORIGINAL USE PS - PUBLIC SUPPLY/NON-COMMUNITY.

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Neat Cement from to ft. 35 yrds.

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Located Minnesota Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 483683 **Y:** 4970035

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Cuttings Yes
First Bedrock Platteville **Aquifer** Prairie Du Chien-Jordan
Last Strat Jordan **Depth to Bedrock** 0 **ft.**

Well Contractor Certification
Layne Well Co. 27010 HOLLEN, G.
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report | **208321** | Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
208322

County Hennepin
Quad St Paul West
Quad ID 103B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 08/24/1991
Update Date 10/20/2006
Received Date

Well Name AIRPORT TERMINAL BOILER 1
Township Range Dir Section Subsections Elevation 815 **ft.**
28 23 W 29 CBBBAC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
416 **ft.**	416 **ft.**	02/01/1961

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Commercial

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
24 in. to 5 ft.	lbs./ft.	
16 in. to 220 ft.	lbs./ft.	

Open Hole from 220 ft. to 416 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
77 ft. from Land surface Date Measured 02/01/1961

PUMPING LEVEL (below land surface)
133 ft. after hrs. pumping 1600 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
BLOOMINGTON MN

Geological Material	Color	Hardness	From	To
SAND			0	5
PLATTEVILLE LIMESTONE			5	30
SHALEY LIMESTONE			30	36
ST. PETER SANDSTONE			36	194
SHAKOPEE-ONEOTA DOLOMITE			194	331
SANDSTONE WITH SEAMS LIMESTONE		HARD	331	340
JORDAN SANDSTONE			340	412
SANDY SHALE (ST. LAWRENCE)			412	416

REMARKS
WELL NO.1.

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Neat Cement from to ft. 30 yrds.

Located Minnesota Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 483690 **Y:** 4970017

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed
Manufacturer's name JACUZZI Model number ___ HP 100 Volts 220
Length of drop Pipe _ft. Capacity 1500 g.p.m Type Turbine Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Tri-state Well Co. 27118 BENEKE, R.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Platteville **Aquifer** Prairie Du Chien-Jordan
Last Strat St.Lawrence **Depth to Bedrock** 5 **ft.**

County Well Index Online Report | **208322** | Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
223853

County Hennepin
Quad St Paul West
Quad ID 103B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 08/24/1991
Update Date 09/11/1991
Received Date

Well Name

Township Range Dir Section Subsections Elevation 840 **ft.**
28 24 W 25 CCAAAD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
51 ft.	51 ft.	05/10/1962

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
2 in. to 48 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type**

Diameter	Slot/Gauze	Length	Set Between
2	10	3	48 ft. and 51 ft.

Well Address
6804 21ST AV S
RICHFIELD MN

Geological Material	Color	Hardness	From	To
SAND	BROWN		0	30
CLAY	BROWN		30	36
SAND & WATER	BROWN		36	51

Static Water Level
30 ft. from Land surface Date Measured 05/10/1962

PUMPING LEVEL (below land surface)
30 ft. after hrs. pumping 10 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Address verification
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 480799 **Y:** 4969595

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP 0 Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Dependable Well Co. 27143
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-brown
Aquifer Quat. Water Table Aquifer
Depth to Bedrock **ft.**

County Well Index Online Report | **223853** | Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
223866

County Hennepin
Quad St Paul West
Quad ID 103B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/24/1991
Update Date 09/11/1991
Received Date

Well Name
Township Range Dir Section Subsections Elevation 819 **ft.**
28 24 W 25 BACDAA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
51 **ft.**	51 **ft.**	10/16/1961

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
2 in. to 48 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type**

Diameter	Slot/Gauze	Length	Set Between
2	10	3	48 ft. and 51 ft.

Well Address
6314 STANDISH AV
RICHFIELD MN

Geological Material	Color	Hardness	From	To
SAND			0	30
CLAY			30	37
WATER SAND			37	51

Static Water Level
20 ft. from Land surface Date Measured 10/16/1961

PUMPING LEVEL (below land surface)
20 ft. after hrs. pumping 12 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Address verification
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 481020 **Y:** 4970556

Nearest Known Source of Contamination
_fcct _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Dependable Well Co. 27143
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand
Aquifer Quat. Water Table Aquifer
Depth to Bedrock **ft.**

County Well Index Online Report **223866** Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
255866

County Dakota
Quad St Paul SW
Quad ID 103C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 09/25/2002
Update Date 03/11/2005
Received Date

Well Name FORT SNELLING W60150
Township Range Dir Section Subsections Elevation 702 **ft.**
28 23 W 32 ADCCDC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
80 ft.	80 ft.	

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
5 in. to 75 ft.	lbs./ft.	5 in. to 80 ft.

Open Hole from 75 ft. to 80 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
MENDOTA MN 55118

Geological Material	Color	Hardness	From	To
GLACIAL DRIFT-RIVER ALLUVIUM			0	73
PRAIRIE DU CHIEN GROUP			73	80

Static Water Level
-3 ft. from Land surface Date Measured 09/11/2002

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
GAMMA LOGGED 9-11-2002.
WELL FLOWS.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Information from owner
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 484836 **Y:** 4968452

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

2222.1815

STATE_02822772

	Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No
	Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No
Borehole Geophysics Yes **First Bedrock** Prairie Du Chien Group **Aquifer** Prairie Du Chien Group **Last Strat** Prairie Du Chien Group **Depth to Bedrock** 73 **ft.**	**Well Contractor Certification** Minnesota Geological Survey MGS License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report	**255866**	Printed 6/29/2008 HE-01205-07

2222.1816

STATE_02822773

Minnesota Unique Well No.
255936

County Dakota
Quad St Paul SW
Quad ID 103C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 02/27/2003
Update Date 02/27/2003
Received Date

Well Name FORT SNELLING W-60250

Township	Range	Dir	Section	Subsections	Elevation	Elevation Method
28	23	W	32	DBAACD	702 ft.	7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
128 ft.	128 ft.	

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
5 in. to 77 ft.	lbs./ft.	

Open Hole from 77 ft. to 128 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
GLACIAL DRIFT			0	75
PRAIRIE DU CHIEN GROUP			75	128

Static Water Level
-1 ft. from Land surface Date Measured 02/26/2003

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
GAMMA LOGGED 2-26-2003. WELL FLOWS 25-30 GPM.
WELL TO BE SEALED BY KIMMES-BAUER.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Information from owner
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 484726 **Y:** 4968354

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

2222.1817

STATE_02822774

	Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No
	Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No
Borehole Geophysics Yes **First Bedrock** Prairie Du Chien Group **Aquifer** Prairie Du Chien Group **Last Strat** Prairie Du Chien Group **Depth to Bedrock** 75 **ft.**	**Well Contractor Certification** Minnesota Geological Survey MGS License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report	**255936**	Printed 6/29/2008 HE-01205-07

2222.1818

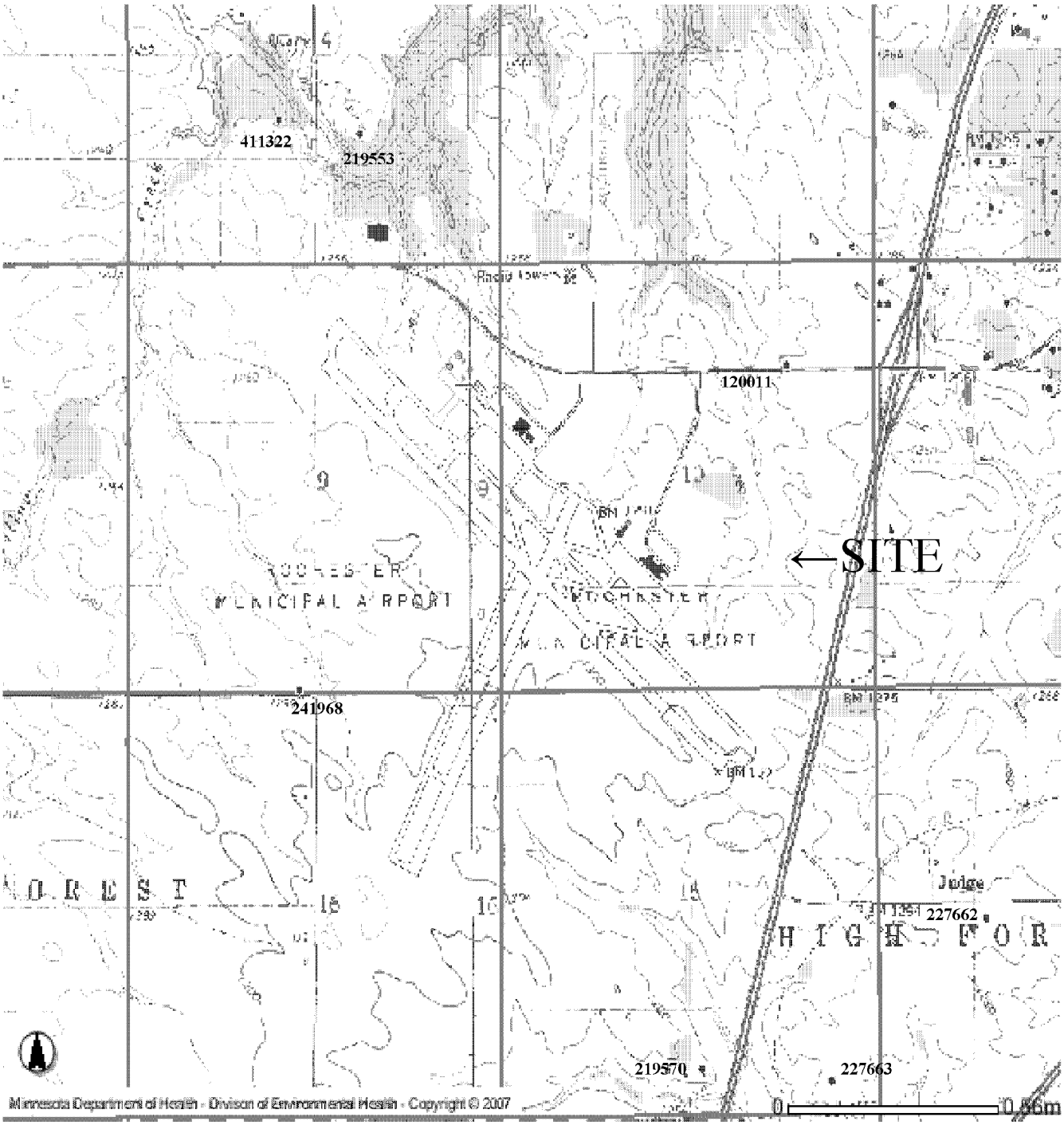
STATE_02822775

SITE SUMMARY

Site Name:	Rochester Airport
Fire Department:	Rochester Airport Fire Department 1500 Helgerson Drive SW Rochester, MN 55901
Site Contact:	Kurt Claussen, Assistant Airport Manager 507-282-2328 ext. 102 claussen@rochesterintlairport.com

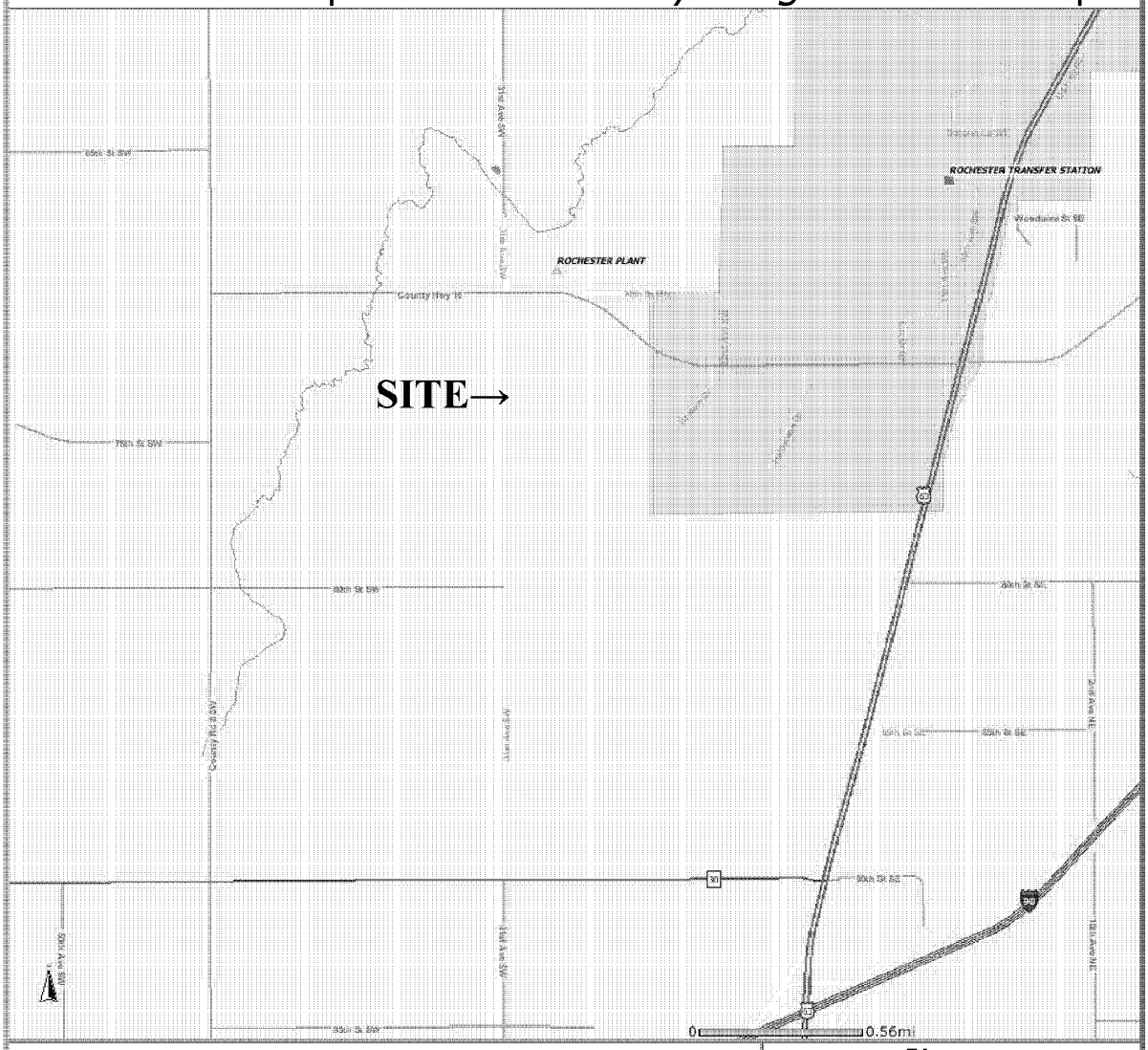
Training Location:	Various on-site locations as selected by FAA Inspector, usually a runway. "Short bursts" of foam required in annual training by FAA. Firefighters trained at facility in Duluth.
Type of foam used in training:	AFFF: Chemguard
Foam training frequency:	Annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Ground
Annual foam use:	AFFF: less than 5 gallons
Nearest surface water:	Several intermittent streams surrounding airport
Nearest wetland:	Adjacent south of airport
Karst Area:	Site is located in an active karst area
Nearest water well:	Less than 1/4 mile west
Nearest Wellhead Protection Area:	None within one mile
SITE RANKING:	**16**

ROCHESTER AIRPORT CWI Well Map



STATE_02822777

Rochester Airport *What's In My Neighborhood* Map



Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

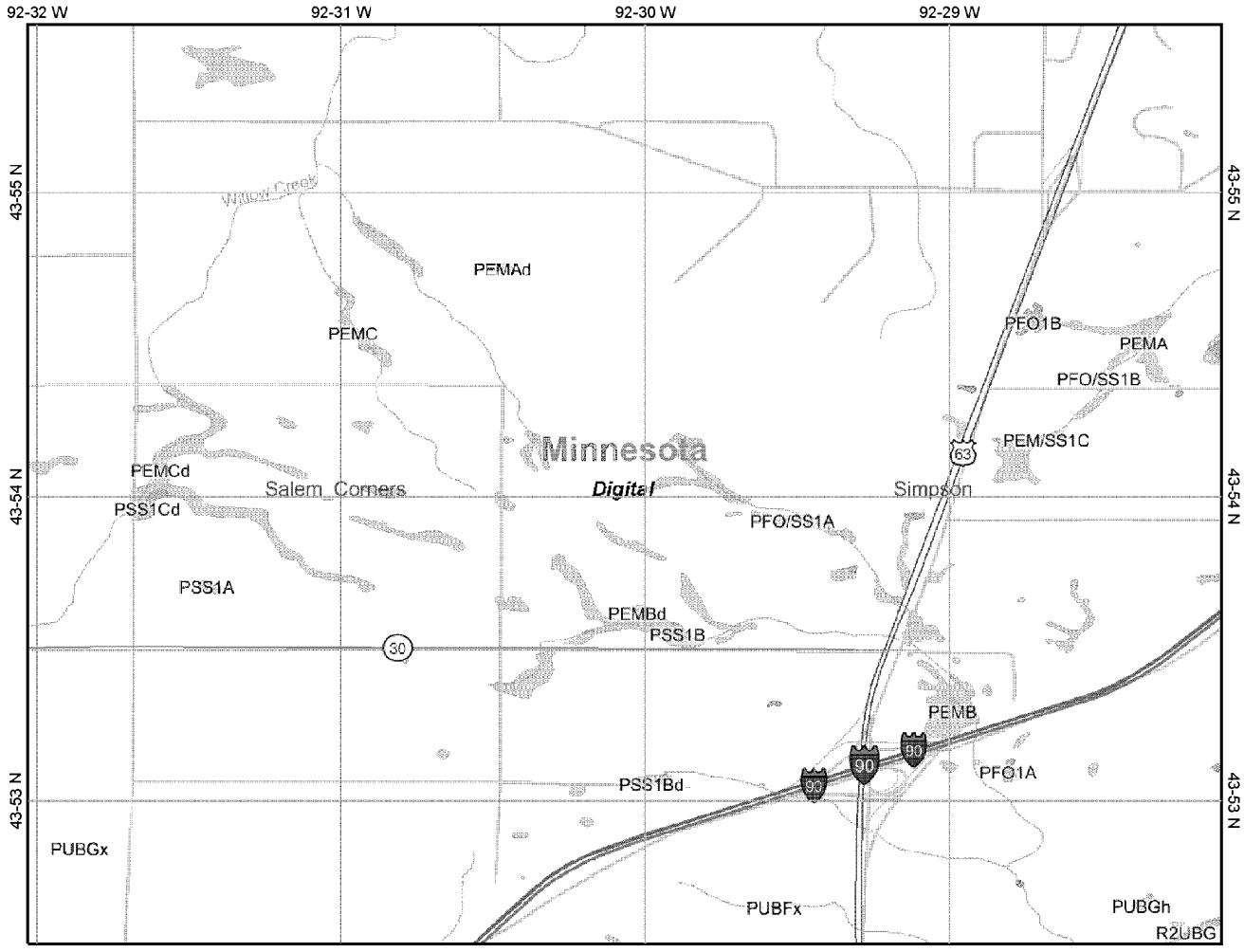
Minnesota Pollution Control Agency

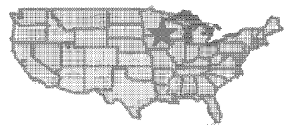
Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- MFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

STATE_02822778

Rochester Airport Wetland Map





Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Map center: 43° 54' 2" N, 92° 30' 4" W

Scale: 1:39,157

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

2222.1822

STATE_02822779

Minnesota Unique Well No.
120011

County Olmsted
Quad Simpson
Quad ID 28B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 01/25/1988
Update Date 01/25/1995
Received Date

Well Name TONY LOVE CAR WASH

Township	Range	Dir	Section	Subsections	Elevation
105	14	W	10	AACCCD	1282 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
385 ft.	385 ft.	06/03/1976

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 ft.

Casing Diameter	Weight	Hole Diameter
8 in. to 16 ft.	lbs./ft.	
4 in. to 334 ft.	lbs./ft.	

Open Hole from 334 ft. to 385 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
CLAY			0	15
LIMESTONE	BROWN	MEDIUM	15	52
LIMESTONE	GRAY	MEDIUM	52	212
SHALE	BLUE	MEDIUM	212	252
LIMESTONE	GRAY	MEDIUM	252	280
SHALE	BLUE	MEDIUM	280	285
SANDSTONE	GRAY	MEDIUM	285	385

Static Water Level
205 ft. from Land surface Date Measured 06/04/1976

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
CASING: 8 TO 16; 4 TO 334.
HIGH FOREST LOT-4 + 5

Grouting Information Well Grouted? ☑ Yes ☐ No

Located Minnesota Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number
Verification Other, note in remarks **Date** N/A

System *UTM - Nad83, Zone15, Meters* **X:** 541489 **Y:** 4862805

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed
Manufacturer's name BURKE Model number 30SN18D
__ HP 3 Volts 22
Length of drop Pipe 252 ft. Capacity _g.p.m
Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

First Bedrock Galena **Last Strat** St.Peter	**Aquifer** St.Peter **Depth to Bedrock** 15 **ft.**	**Well Contractor Certification** Thein Well Co. 55079 License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	**120011**	Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
219553

County Olmsted
Quad Salem Corners
Quad ID 29A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 01/25/1988
Update Date 01/25/1995
Received Date

Well Name CHURCHILL, KEITH
Township Range Dir Section Subsections Elevation 1242 **ft.**
105 14 W 4 DBCDAA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
355 **ft.**	355 **ft.**	03/15/1974

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
8 in. to 22 ft.	lbs./ft.	
4 in. to 312 ft.	lbs./ft.	

Open Hole from 312 ft. to 355 ft.

Screen NO **Make** **Type**
Diameter **Slot/Gauze** **Length** **Set Between**

Geological Material	Color	Hardness	From	To
DRIFT			0	20
LIMESTONE			20	180
SHALE			180	230
LIMESTONE			230	250
SHALE			250	255
SANDSTONE			255	355

Static Water Level
210 ft. from Land surface Date Measured 03/15/1974

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
CASING: 008 TO 0022;004 TO 0312.

Grouting Information Well Grouted? ☑ Yes ☐ No

Located Minnesota Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification N/A **Date** N/A

System *UTM - Nad83, Zone15, Meters* **X:** 539654 **Y:** 4863674

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

First Bedrock Galena **Last Strat** St.Peter	**Aquifer** St.Peter **Depth to Bedrock** 20 **ft.**	**Well Contractor Certification** Thein Well Co. 55079 License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	**219553**	Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
219570

County Olmsted
Quad Simpson
Quad ID 28B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 01/25/1988
Update Date 03/16/1995
Received Date

Well Name BELL NORTHERN OIL CO

Township	Range	Dir	Section	Subsections	Elevation
105	14	W	15	DCCBBA	1265 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
390 ft.	390 ft.	01/29/1964

Drilling Method --

Geological Material	Color	Hardness	From	To
DRIFT CAVEY			0	38
GALENA			38	226
DECORAH			226	268
PLATTEVILLE			268	279
GLENWOOD			279	295
ST. PETER			295	390

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Commercial

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 312 ft.	lbs./ft.	

Open Hole from 312 ft. to 390 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
246 ft. from Land surface Date Measured 01/29/1964

PUMPING LEVEL (below land surface)
0 ft. after hrs. pumping 25 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number
Verification Other, note in remarks
Date N/A

System *UTM - Nad83, Zone15, Meters*
X: 541125 **Y:** 4860157

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed
Manufacturer's name RED JACKET Model number __ HP 1.5 Volts
Length of drop Pipe _ft. Capacity _g.p.m
Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

STATE_02822784

2222.1827

First Bedrock Galena **Last Strat** St.Peter	**Aquifer** St.Peter **Depth to Bedrock** 38 **ft.**	**Well Contractor Certification** Rowland Well Co. 23124 License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	**219570**	Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
227662

County Olmsted
Quad Simpson
Quad ID 28B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 01/25/1988
Update Date 01/25/1995
Received Date

Well Name MICH, MARY & EMILY

Township	Range	Dir	Section	Subsections	Elevation
105	14	W	14	CABBDB	1290 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
206 ft.	206 ft.	04/30/1973

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 146 ft.	lbs./ft.	

Open Hole from 147 ft. to 206 ft.

Screen NO **Make** GALENA **Type**

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
OLD HOLE			0	163
GALENA			163	206

Static Water Level
29 ft. from Land surface Date Measured 04/30/1973

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
REDRILL OF 6 INCH WELL 163 FEET DEEP

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number
Verification Information from owner
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 542347 **Y:** 4860724

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0 Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Rowland Well Co. 23124
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock No Record
Last Strat Galena
Aquifer Galena
Depth to Bedrock ft.

STATE_02822786

2222.1829

County Well Index Online Report	227662	Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
227663

County Olmsted
Quad Simpson
Quad ID 28B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 01/25/1988
Update Date 01/25/1995
Received Date

Well Name PEHL, ALFRED
Township Range Dir Section Subsections Elevation 1285 **ft.**
105 14 W 15 DDDBCC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
145 **ft.**	145 **ft.**	04/24/1959

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type **Joint** No Information **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
6 in. to 101 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
DRIFT			0	98
GALENA, LIMESTONE			98	145

Static Water Level
46 ft. from Land surface Date Measured 04/24/1959

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number
Verification Information from neighbor
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 541684 **Y:** 4860112

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0 Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

First Bedrock Galena
Last Strat Galena
Aquifer Galena
Depth to Bedrock 98 **ft.**

Well Contractor Certification
Rowland Well Co. 23124
License Business Name Lic. Or Reg. No. Name of Driller

STATE_02822788

2222.1831

County Well Index Online Report	227663	Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
241968

County Olmsted
Quad Salem Corners
Quad ID 29A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 01/28/1992
Update Date 01/08/1996
Received Date

Well Name ROCHESTER AIRPORT - MONI

Township	Range	Dir	Section	Subsections	Elevation	Elevation Method
105	14	W	9	CDDDCD	1300 ft.	7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
414 ft.	414 ft.	

Drilling Method --

Drilling Fluid
--

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Other (specify in remarks)

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 334 ft.	lbs./ft.	

Open Hole from 334 ft. to 407 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
272 ft. from Land surface Date Measured 02/04/1988

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address

ROCHESTER MN

Geological Material	Color	Hardness	From	To
GLACIAL DRIFT			0	34
GALENA FORMATION			34	101
GALENA FORMATION			101	176
GALENA FORMATION			176	238
DECORAH SHALE			238	285
PLATTEVILLE LIMESTONE			285	304
GLENWOOD SHALE			304	308
ST. PETER SANDSTONE			308	400
PRAIRIE DU CHIEN GROUP			400	414

REMARKS
GAMMA LOGGED 2-9-1988. M.G.S. NO. 3198.

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Information from owner
Date N/A

System *UTM - Nad83, Zone15, Meters*
X: 539397 **Y:** 4861583

Grouting Information Well Grouted? ☐ Yes ☐ No

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

2222.1833

STATE_02822790

	Pump ☐ Not Installed Date Installed Manufacturer's name Model number ___ HP 0 Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material
	Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No
	Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No
Cuttings Yes **Borehole Geophysics** Yes **First Bedrock** Galena/Stewartville Mbr **Aquifer** Multiple **Last Strat** Shakopee Fm(Prairie Du Chie **Depth to Bedrock** 34 **ft.**	**Well Contractor Certification** Minnesota Geological Survey MGS License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	**241968** Printed 6/29/2008 HE-01205-07

2222.1834

STATE_02822791

Minnesota Unique Well No.
411322

County Olmsted
Quad Salem Corners
Quad ID 29A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 01/25/1988
Update Date 05/09/1995
Received Date

Well Name NORMAN, JACK

Township	Range	Dir	Section	Subsections	Elevation	Elevation Method
105	14	W	4	CADBDB	1240 ft.	7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
340 ft.	340 ft.	11/28/1986

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 0 ft.

Casing Diameter	Weight	Hole Diameter
8 in. to 13 ft.	lbs./ft.	8 in. to 265 ft.
4 in. to 265 ft.	lbs./ft.	4 in. to 340 ft.

Open Hole from 265 ft. to 340 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
DRIFT	BROWN	SOFT	0	9
LIMESTONE	TAN	MEDIUM	9	28
LIMESTONE, BROKEN WITH CLAY	BROWN	SOFT	28	51
LIMESTONE	BROWN	MEDIUM	51	171
SHALE	BLUE	SOFT	171	214
LIMESTONE	TAN	MEDIUM	214	235
SHALE	BROWN	SOFT	235	244
SANDSTONE	WHITE	SOFT	244	340
DOLOMITE	GRAY	MEDIUM	340	340

Static Water Level
204 ft. from Land surface Date Measured 11/28/1986

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Neat Cement from 0 to 265 ft. 6 yrds.

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification Information from owner
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 539308 **Y:** 4863725

Nearest Known Source of Contamination
200 feet S direction Septic tank/drain field type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number IIP 0 Volts
Length of drop Pipe ft. Capacity g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Rowland Well Co. 23124 ROWLAND, N.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Galena
Last Strat Prairie Du Chien Group
Aquifer St.Peter
Depth to Bedrock 9 ft.

County Well Index Online Report

411322

Printed 6/29/2008
HE-01205-07

STATE_02822792

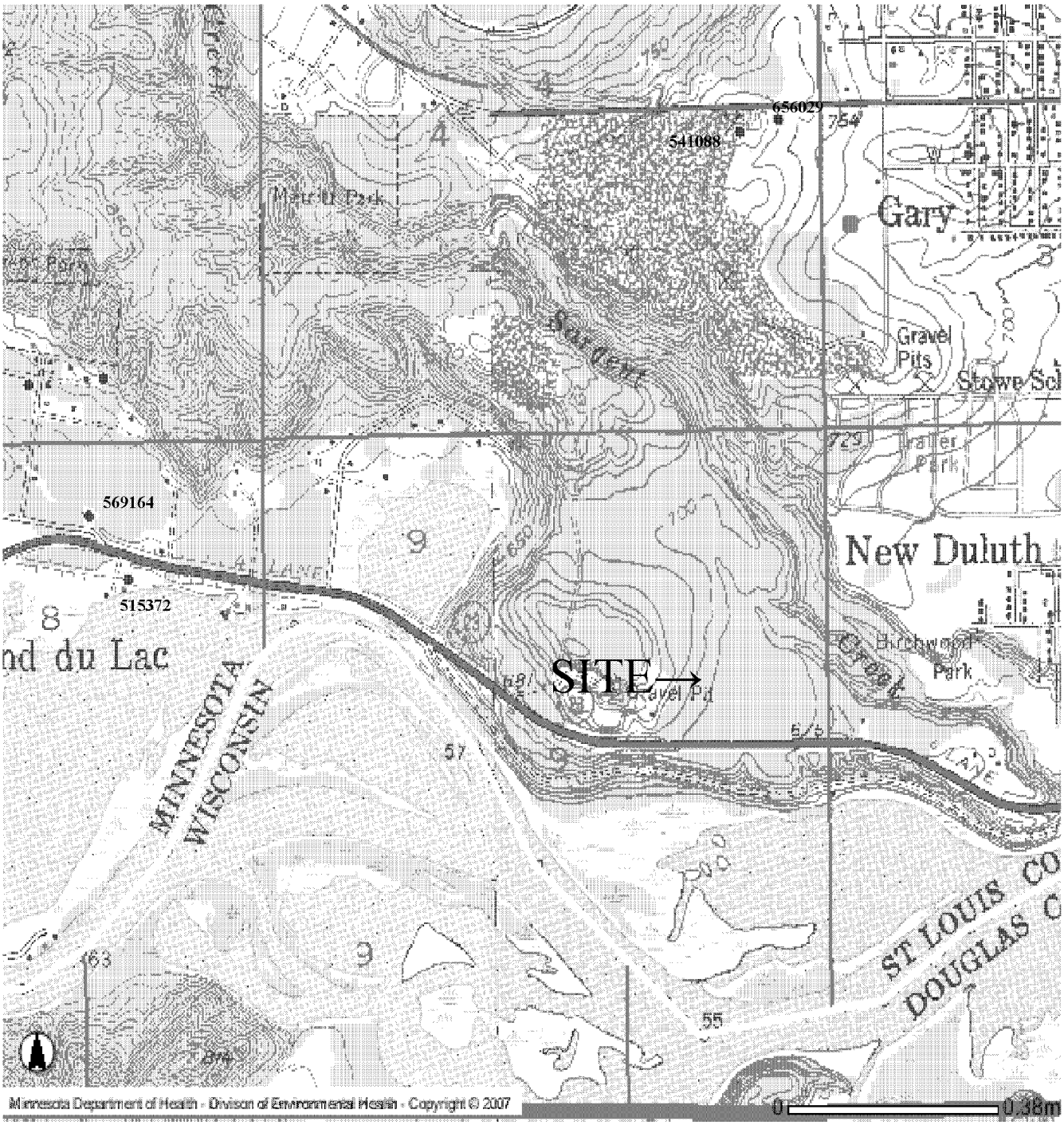
SITE SUMMARY

Site Name: Lake Superior College - Duluth
11501 Highway 23
Duluth, MN 55808

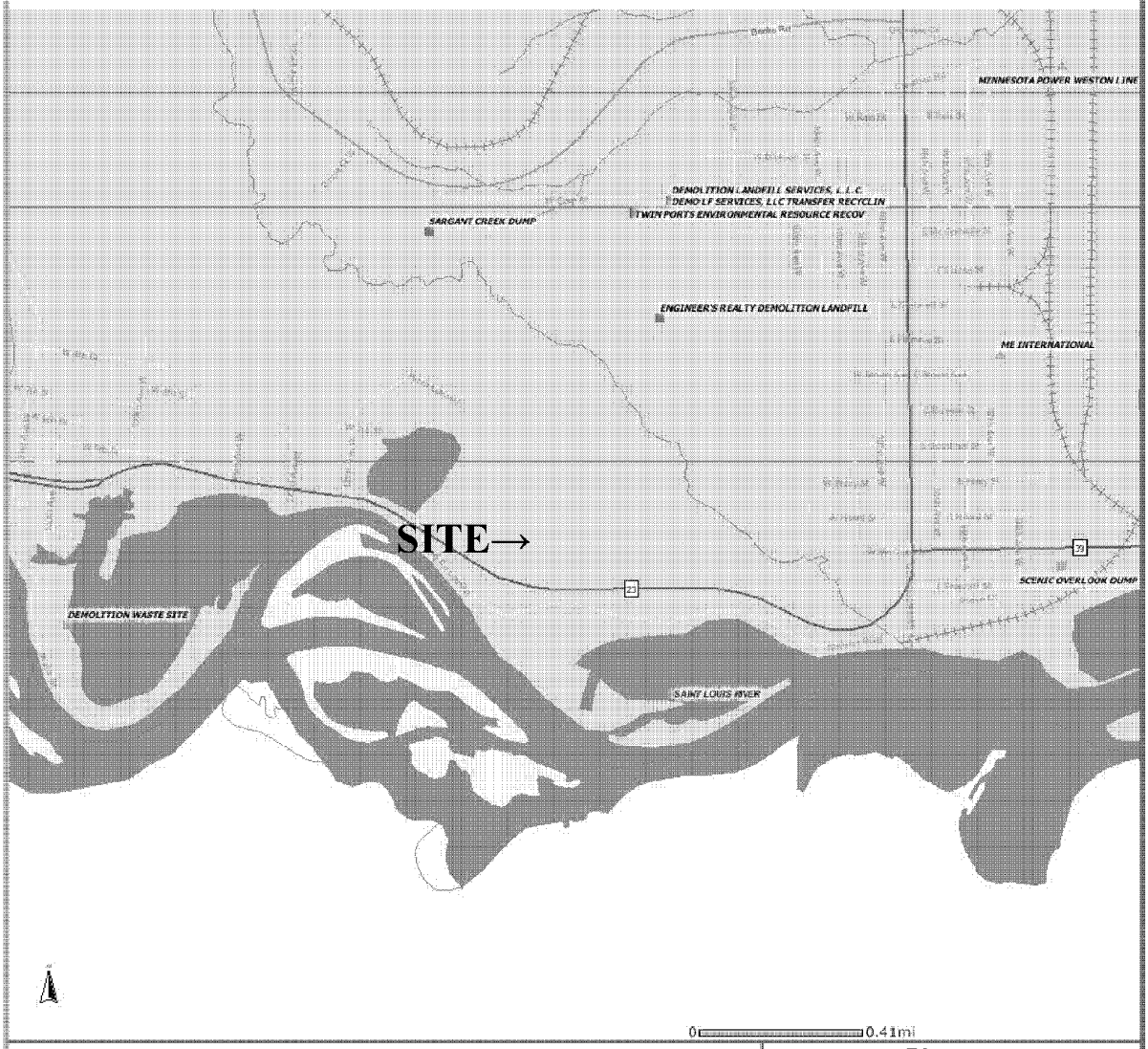
Site Contact: David Sarazin, Academic Supervisor
218-733-1077
d.sarazin@lsc.edu

Training Location:	On site
Type of foam used in training:	AFFF: 3M (historic use) AR-AFFF: 3M (historic use) Class B Protein: 3M (historic use) Class A: Ansul Silv-ex Training Foam: Trainol, Simufoam
Foam training frequency:	Annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	On-site treatment facility
Annual foam use:	AFFF: unknown, historical use AR-AFFF: unknown, historical use Class B Protein: unknown, historical use Class A: less than 5 gallons Training Foam: not specified
Nearest surface water:	Sargent Creek, less than 1/4 mile east; St. Louis River less than 1/4 mile south
Nearest wetland:	On or adjacent to site
Nearest water well:	Approximately 1 mile west and north
Nearest Wellhead Protection Area:	None within one mile
SITE RANKING:	**17**

LAKE SUPERIOR COLLEGE - DULUTH CWI Well Map



Lake Superior College Duluth *What's In My Neighborhood*



Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

Minnesota Pollution Control Agency

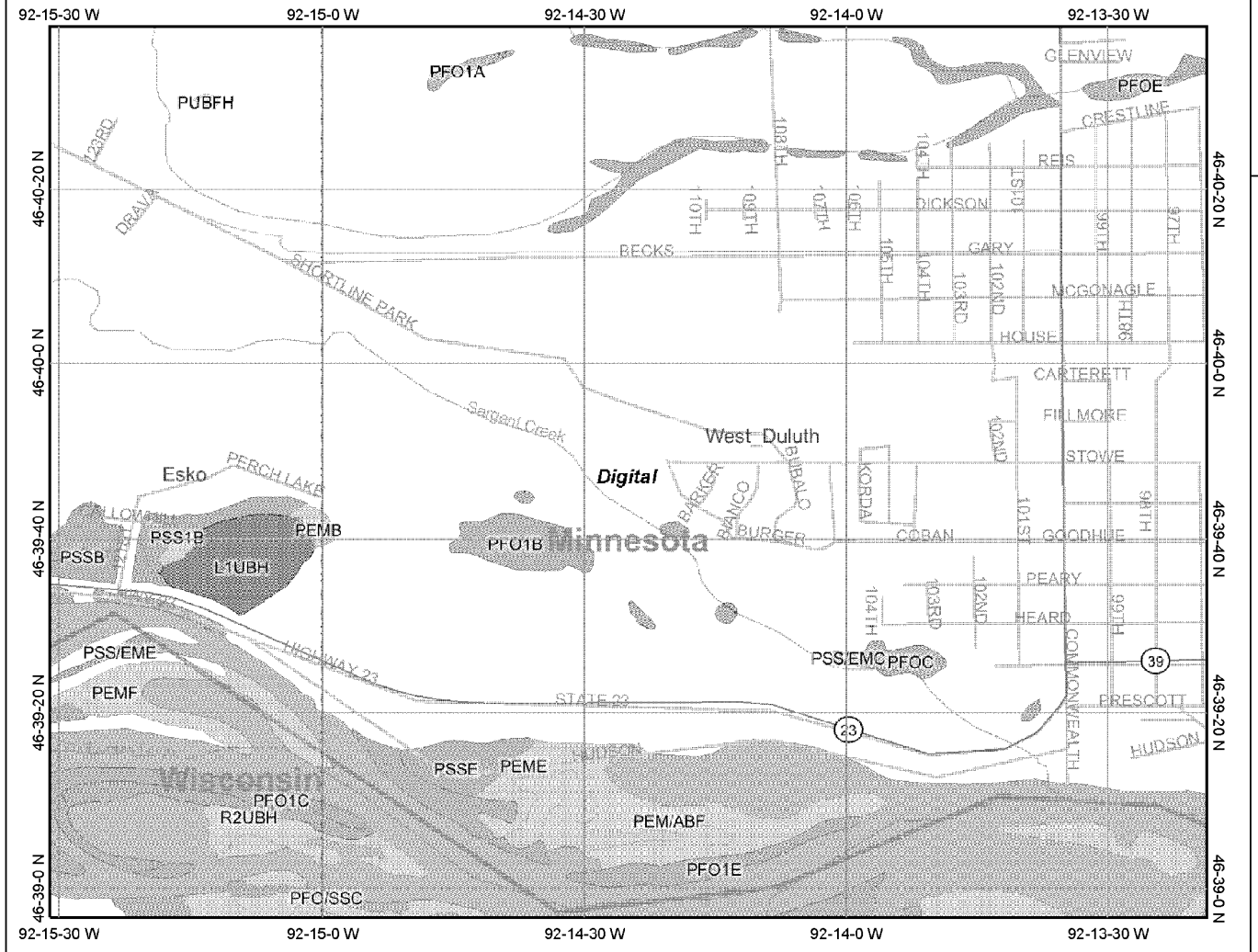
Sites

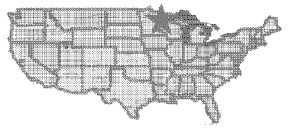
- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

STATE_02822795

2222.1838

Lake Superior Coll Duluth Wetland Map





Legend

Ohio_wet_scan
- 0
- 1
- Out of range

Interstate

Major Roads
- Other Road
- Interstate
- State highway
- US highway

Roads

Cities

USGS Quad Index 24K

Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan

NHD Streams

Counties 100K

States 100K

- South America
- North America

Scale: 1:22,018

Map center: 46° 39' 48" N, 92° 14' 25" W

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2222.1839

STATE_02822796

Minnesota Unique Well No.
515372

County St. Louis
Quad Esko
Quad ID 224A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 02/23/1993
Update Date 10/03/2007
Received Date

Well Name GLAMUZINA, JOHN
Township Range Dir Section Subsections Elevation 610 **ft.**
48 15 W 8 AACCBD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
75 **ft.**	75 **ft.**	08/14/1992

Drilling Method Air Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☑ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
6 in. to 75 ft.	19 lbs./ft.	

Open Hole from 75 ft. to 75 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
12602 23 HY
DULUTH MN 55808

Geological Material	Color	Hardness	From	To
CLAY	GRAY	SOFT	0	70
GRAVEL & SAND			70	75

Static Water Level
10 ft. from Land surface Date Measured 08/14/1992

PUMPING LEVEL (below land surface)
20 ft. after 1 hrs. pumping 30 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☑ No

Located Minnesota Geological Survey **Method** Digitization (Screen) - Map (1:24,000)
Unique Number Verification Address verification **Date** 09/19/2007
System *UTM - Nad83, Zone15, Meters* **X:** 556325 **Y:** 5167623

Nearest Known Source of Contamination
77 feet E direction Septic tank/drain field type
Well disinfected upon completion? ☐ Yes ☑ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☑ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Bleau Well Drilling 36336 BLEAU, D.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand & larger
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **515372** | Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
541088

County St. Louis
Quad West Duluth
Quad ID 223B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 03/13/1995
Update Date 10/03/2007
Received Date

Well Name DELZOTTO, BILL
Township Range Dir Section Subsections Elevation 778 **ft.**
48 15 W 4 DABADB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
327 **ft.**	327 **ft.**	08/22/1994

Drilling Method Air Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Other (specify in remarks)

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☑ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
6 in. to ft.	18.97 lbs./ft.	

Well Address
1100 GARY ST W
DULUTH MN 55808

Open Hole from ft. to ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
CLAY	RED	MEDIUM	0	100
SANDY CLAY	RED	MEDIUM	100	195
GRAVEL	BROWN	HARD	195	210
CLAY	RED	MEDIUM	210	320
SAND GRAVEL	BROWN	SOFT	320	327

Static Water Level
60 ft. from Land surface Date Measured 08/22/1994

PUMPING LEVEL (below land surface)
240 ft. after 3 hrs. pumping 5 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
'SHOP' IS USE.

Grouting Information Well Grouted? ☐ Yes ☑ No

Located Minnesota Geological Survey **Method** Digitization (Screen) - Map (1:24,000)
Unique Number Verification Address verification **Date** 09/19/2007
System *UTM - Nad83, Zone15, Meters* **X:** 558069 **Y:** 5168742

Nearest Known Source of Contamination
160 feet S direction Landfill type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number HP Volts
Length of drop Pipe ft. Capacity g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Bleau Well Drilling 36672 AUGLAND, J.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand & larger-brown
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **541088** | Printed 6/29/2008 HE-01205-07

STATE_02822798

2222.1841

Minnesota Unique Well No.

569164

County St. Louis
Quad Esko
Quad ID 224A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/17/1996
Update Date 10/03/2007
Received Date

Well Name STEPHENSON, JEFFREY

Township	Range	Dir	Section	Subsections	Elevation
48	15	W	8	ABADCB	614 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
212 ft.	212 ft.	02/20/1996

Drilling Method Air Rotary

Drilling Fluid Water

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☑ Yes ☐ No **Above/Below** ft.

Casing Diameter	Weight	Hole Diameter
6 in. to 212 ft.	19.45 lbs./ft.	6 in. to 212 ft.

Open Hole from 212 ft. to 212 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
12631 5TH ST W
DULUTH MN 55808

Geological Material	Color	Hardness	From	To
SAND	BROWN	SOFT	0	70
CLAY	RED/BRN	MEDIUM	70	89
SAND	BROWN	SOFT	89	100
CLAY	RED/BRN	MEDIUM	100	122
SAND	BROWN	SOFT	122	178
CLAY	RED/BRN	MEDIUM	178	207
SAND/GRAVEL	BROWN	SOFT	207	212

Static Water Level
12 ft. from Land surface Date Measured 02/20/1996

PUMPING LEVEL (below land surface)
ft. after hrs. pumping 15 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Bentonite from 8 to 210 ft.

Located Minnesota Geological Survey **Method** Digitization (Screen) - Map (1:24,000)

Unique Number Verification Address verification **Date** 09/19/2007

System *UTM - Nad83, Zone15, Meters* **X:** 556211 **Y:** 5167782

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☑ Yes ☐ No

2222.1842

STATE_02822799

	Pump ☐ Not Installed Date Installed Manufacturer's name Model number ___ HP _ Volts Length of drop Pipe _ft. Capacity _g.p.m Type Material
	Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No
	Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No
First Bedrock **Last Strat** Sand & larger-brown **Aquifer** Quat. Buried Artes. Aquifer **Depth to Bedrock ft.**	**Well Contractor Certification** Rasmussen Well Co. 38019 RASMUSSEN, R. License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	**569164** Printed 6/29/2008 HE-01205-07

2222.1843

STATE_02822800

Minnesota Unique Well No.
656029

County St. Louis
Quad West Duluth
Quad ID 223B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 03/26/2002
Update Date 11/15/2007
Received Date

Well Name VEIT COMPANIES
Township Range Dir Section Subsections Elevation 770 **ft.**
48 15 W 4 DAABAD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
1258 **ft.**	1258 **ft.**	05/09/2001

Drilling Method Non-specified Rotary

Well Address
1100 GARY ST W
DULUTH MN 55808

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Industrial

Geological Material	Color	Hardness	From	To
LAYERED SAND & CLAY	BROWN	SOFT	0	30
SAND & CLAY	RED	SOFT	30	52
CLAY & ROCKS (STICKY)	RED		52	70
BOULDER	GRAY	HARD	70	72
CLAY & ROCKS	RED	MEDIUM	72	135
SILTY CLAY	RED	SOFT	135	240
CLAY & GRAVEL (STICKY)	GRAY		240	350
SILTY CLAY & ROCKS	RED	MED-HRD	350	457
REQOLITH & ROCKS	WHT/BLK	HARD	457	460
CLAY & ROCKS	RED/BRN	HARD	460	485
REGOLITH & ROCKS	VARIED	HARD	485	524
GRANITE BOULDER	GRAY	HARD	524	530
CLAY & ROCKS	RED	HARD	530	537
REGOLITH	WHITE	MED-HRD	537	560
CLAY & ROCKS	RED	HARD	560	590
CLAY & ROCKS BRIGHT RED	RED	HARD	590	680
SANDSTONE & CLAY	GREEN	HARD	680	703
CLAY & ROCKS	RED	MEDIUM	703	711
REGOLITH	WHITE	MEDIUM	711	715
ROCKS & CLAY	RED/GRN	HARD	715	800
BOULDER	GRN/BLK	HARD	800	825
CLAY & ROCKS	RED/GRN	HARD	825	850
ROCK - GABRO	BLK/GRN	HARD	850	867
GABRO	BLK/GRN	SFT-MED	867	930
GABRO	GREEN	MEDIUM	930	938
GABRO	RED/GRN	SFT-MED	938	990
GABRO	GREEN	MED-HRD	990	1018
GABRO	RED/GRN	HARD	1018	1078
GABRO	GREEN	HARD	1078	1258

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☑ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
6 in. to 867 ft.	19.45 lbs./ft.	10 in. to 30 ft.
		8.75 in. to 867 ft.

Open Hole from 867 ft. to 1258 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
GAMMA LOGGED M.G.S. NO. 4139.
DRY HOLE 20 GAL./DAY.

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Bentonite	from 0 to 30 ft.	3 bags
Grout Material: High solids bentonite	from 30 to 867 ft.	

Located Minnesota Geological Survey **Method** Digitization (Screen) - Map (1:24,000)
Unique Number Verification Information from owner **Date** 09/08/2004

2222.1844

STATE_02822801

System *UTM - Nad83, Zone15, Meters* **X:** 558179 **Y:** 5168773

Nearest Known Source of Contamination
100 feet South West direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Cuttings Yes **Borehole Geophysics** Yes
First Bedrock **Aquifer**
Last Strat **Depth to Bedrock** 457 ft.

Well Contractor Certification

Petersen Well Co.	69183	PETERSEN, D.
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report **656029** Printed 6/29/2008 HE-01205-07

2222.1845

STATE_02822802

SITE SUMMARY

Site Name: South Central College - North Mankato
1920 Lee Blvd.
North Mankato, MN 56003

Site Contact: Tim Zehnder, Fire & Rescue Program Manager
507-389-7329
tim.zehnder@southcentral.edu

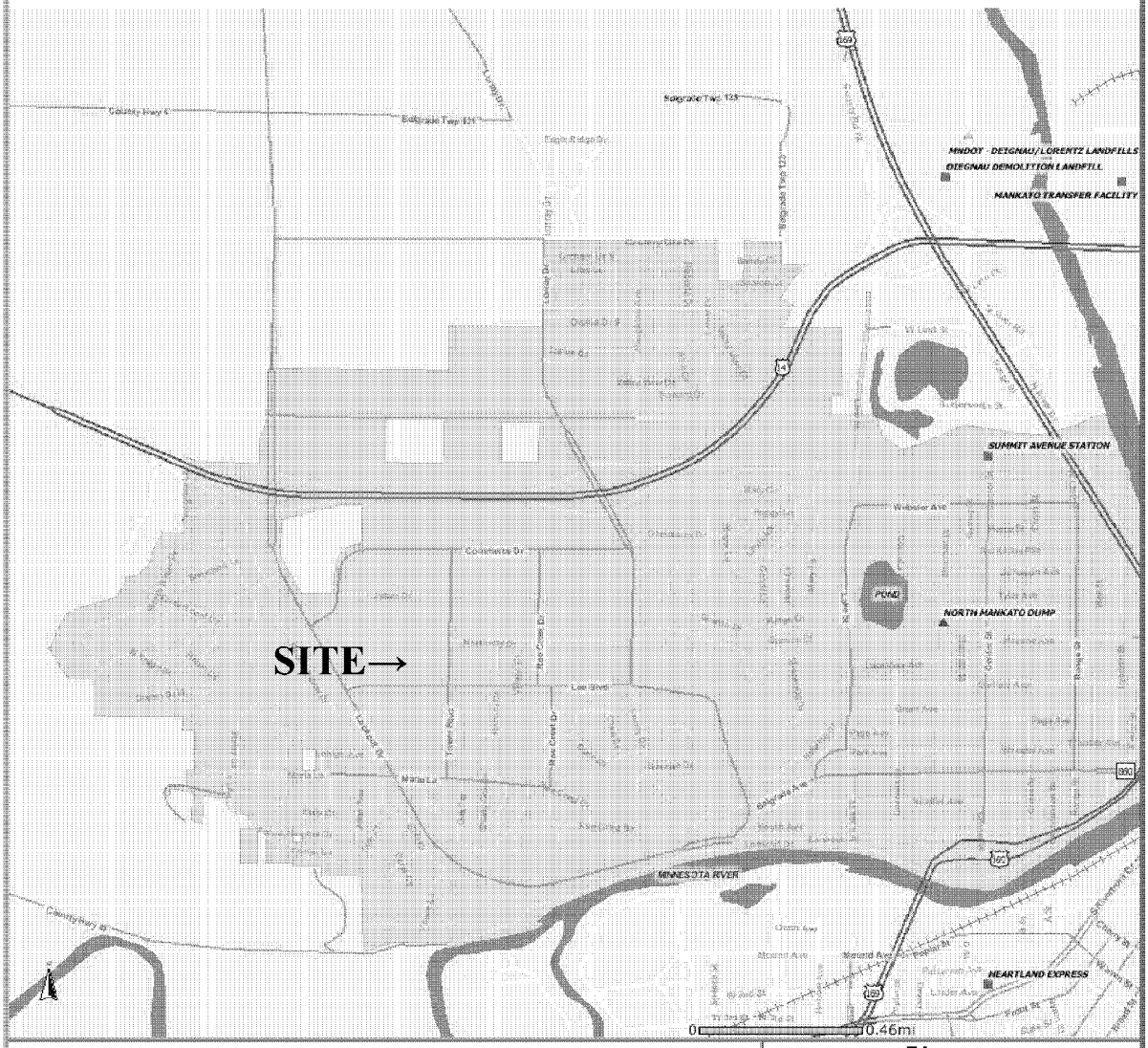
Training Location:	On site
Type of foam used in training:	AFFF: All (3M use assumed) AR-AFFF: All (3M use assumed) Class A: All Training Foam: Ansul Silv-ex
Foam training frequency:	Monthly
Foam use per training event:	5 gallons
Spent foam destination:	Ground, storm sewer
Annual foam use:	AFFF: 5 gallons plus AR-AFFF: 5 gallons plus Class A: 10 gallons plus Training Foam: 10 gallons plus
Nearest surface water:	Intermittent stream approximately 1/4 mile southwest; Minnesota River, 1/2 to 1 mile south
Nearest wetland:	1/2 to 1 mile south
Karst Area:	Site located in covered karst area
Nearest water well:	1/4 to 1/3 mile southwest
Nearest Wellhead Protection Area:	None within one mile
SITE RANKING:	**19**

SOUTH CENTRAL COLLEGE, NORTH MANKATO CWI Well Map



STATE_02822804

South Central College North Mankato *What's In My Neighborhood*



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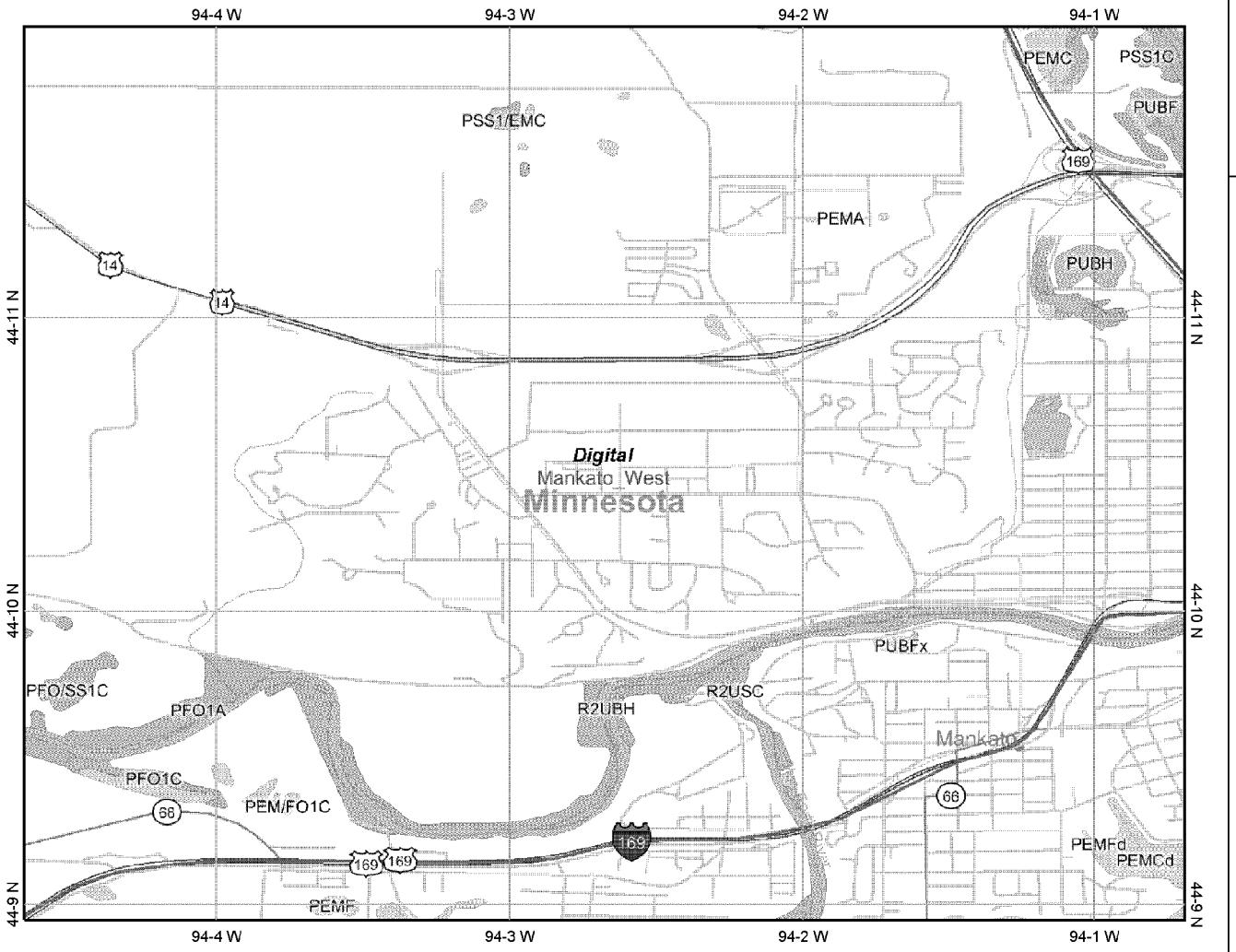
Minnesota Pollution Control Agency

Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA T&D Facilities
- RCRA Investigation & Cleanup
- State Assessment

STATE_02822805

South Central College, North Mankato Wetland Map



Map center: 44° 10' 28" N, 94° 2' 40" W

Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:39,537

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2222.1849

STATE_02822806

Minnesota Unique Well No.
112950

County Nicollet
Quad Mankato West
Quad ID 56A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/13/1988
Update Date 07/30/1998
Received Date

Well Name SCHMOLL, TOM
Township Range Dir Section Subsections Elevation 990 **ft.**
108 27 W 10 DCBAAA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
410 **ft.**	410 **ft.**	07/15/1977

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
5 in. to 266 ft.	lbs./ft.	

Open Hole from 266 ft. to 410 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
602 IVY LA
NORTH MANKATO MN 56001

Geological Material	Color	Hardness	From	To
NO RECORD			0	1
CLAY	YELLOW		1	30
CLAY	BLUE		30	70
SAND CLAY			70	140
WHITE KAOLIN & QUARTZ			140	145
QUARTZ LAYERS			145	180
SANDSTONE SHALE			180	266
FRANCONIA			266	410

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number
Verification Information from neighbor
Date N/A

System *UTM - Nad83, Zone15, Meters*
X: 415546 **Y:** 4891234

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP 0 Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Seppmann Well Co. 07160
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Cretaceous,Undiff.
Last Strat Franconia
Aquifer Franconia
Depth to Bedrock 140 **ft.**

County Well Index Online Report | **112950** | Printed 6/29/2008 HE-01205-07

STATE_02822807

Minnesota Unique Well No.
209819

County Nicollet
Quad Mankato West
Quad ID 56A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/13/1988
Update Date 08/18/1998
Received Date

Well Name FORSBERG, FRED
Township Range Dir Section Subsections Elevation 990 **ft.**
108 27 W 10 DBAADC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
472 **ft.**	472 **ft.**	08/20/1969

Drilling Method --

Well Address
NORTH MANKATO MN 56001

Geological Material	Color	Hardness	From	To
NO RECORD			0	1
CLAY & SAND			1	125
SAND			125	150
BLUE SHALE			150	160
SAND HARD LEDGE OF FLINT	WHITE	SOFT	160	235
SANDSTONE	PINK		235	246
SOFT SAND SOME BLUE SHALE			246	251
BLUE SHALE & SOME SANDSTONE			251	256
SANDSTONE			256	260
SANDSTONE		SOFT	260	262
RED ROCK	RED		262	265
RED ROCK SAND	RED		265	307
SANDSTONE, RED ROCK, SOME SHALE	BLK/GRN		307	322
SANDSTONE & SHALE	BLK/YEL		322	331
GREEN SHALE & BLACK SANDROCK			331	342
SHALE & SANDSTONE	BLACK		342	367
SANDSTONE, BLUE SHALE, RED ROCK	GRY/BLK		367	383
ROCK, SANDSTONE, SHALE, RED ROCK	TAN/BLK		383	398
SHALE, SANDSTONE, DOLOMITE	GRN/YEL		398	428
NO RECORD			428	443
SANDSTONE	BLACK		443	446
SANDSTONE	BLK/PNK		446	472

Drilling Fluid --
Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
5 in. to 256 ft.	lbs./ft.	

Open Hole from 256 ft. to 472 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
210 ft. from Land surface Date Measured 08/20/1969

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Other, note in remarks **Date** N/A

System *UTM - Nad83, Zone15, Meters* **X:** 415713 **Y:** 4891553

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 00/00/1969
Manufacturer's name STA-RITE Model number ___ HP 3 Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Seppmann Well Co. 07160
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Cretaceous,Undiff. **Aquifer** Multiple
Last Strat Franconia-Ironton-Galesvill **Depth to Bedrock** 150 **ft.**

County Well Index Online Report | **209819** | Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.

211770

County Nicollet
Quad Mankato West
Quad ID 56A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/13/1988
Update Date 01/06/1998
Received Date

Well Name THOMAS
Township Range Dir Section Subsections Elevation 995 **ft.**
108 27 W 11 CCDADD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
310 **ft.**	310 **ft.**	00/00/1957

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 151 ft.	lbs./ft.	

Open Hole from 151 ft. to 310 ft.

Screen NO **Make** **Type**

Diameter **Slot/Gauze** **Length** **Set Between**

Well Address

MANKATO MN 56001

Geological Material	Color	Hardness	From	To
CLAY	BROWN		0	75
CLAY	GRAY		75	92
DOLOMITE BROWN CLAY			92	151
LIMESTONE			151	310

Static Water Level
265 ft. from Land surface Date Measured 1957

PUMPING LEVEL (below land surface)
279 ft. after hrs. pumping 12 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey

Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Information from neighbor

Date N/A

System *UTM - Nad83, Zone15, Meters*

X: 416539 **Y:** 4890975

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

2222.1852

STATE_02822809

		Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No	
		Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No	
First Bedrock Prairie Du Chien Group **Last Strat** Prairie Du Chien Group	**Aquifer** Prairie Du Chien Group **Depth to Bedrock** 151 **ft.**	**Well Contractor Certification** United States Geological Survey (License Business Name) USGS (Lic. Or Reg. No.) ADAMS, K. (Name of Driller)	
County Well Index Online Report		**211770**	Printed 6/29/2008 HE-01205-07

2222.1853

STATE_02822810

Minnesota Unique Well No.
52W0006569

County Nicollet
Quad Mankato West
Quad ID 56A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/22/2003
Update Date 01/07/2005
Received Date

Well Name

Township Range Dir Section Subsections Elevation 998 **ft.**

108 27 W 10 DADADB **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth ft. **Depth Completed** ft. **Date Well Completed**

Drilling Method

Drilling Fluid

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use

Casing Type **Joint** **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter **Weight** **Hole Diameter**

Open Hole from ft. to ft.

Screen
Diameter **Slot/Gauze** **Length** **Set Between**

Geological Material **Color** **Hardness** **From** **To**

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Department of Health
Method Digitization (Screen) - Map (1:24,000)

Unique Number Verification N/A
Date N/A

System *UTM - Nad83, Zone15, Meters*
X: 416111 **Y:** 4891402

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification

First Bedrock
Last Strat
Aquifer
Depth to Bedrock **ft.**

License Business Name Lic. Or Reg. No. Name of Driller

STATE_02822811

2222.1854

County Well Index Online Report	52W0006569	Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
52W0006571

County Nicollet
Quad Mankato West
Quad ID 56A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/22/2003
Update Date 01/07/2005
Received Date

Well Name

Township Range Dir Section Subsections Elevation 988 **ft.**

108 27 W 10 DDDBDC **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth ft. | **Depth Completed ft.** | **Date Well Completed**

Drilling Method

Drilling Fluid

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use

Casing Type **Joint** **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter **Weight** **Hole Diameter**

Open Hole from ft. to ft.

Screen
Diameter **Slot/Gauze** **Length** **Set Between**

Geological Material **Color** **Hardness** **From** **To**

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Department of Health
Method Digitization (Screen) - Map (1:24,000)

Unique Number Verification N/A
Date N/A

System *UTM - Nad83, Zone15, Meters*
X: 416013 **Y:** 4890967

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification

First Bedrock
Last Strat
Aquifer
Depth to Bedrock ft.

License Business Name Lic. Or Reg. No. Name of Driller

STATE_02822813

2222.1856

County Well Index Online Report	52W0006571	Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
52W0006572

County Nicollet
Quad Mankato West
Quad ID 56A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/22/2003
Update Date 01/07/2005
Received Date

Well Name

Township Range Dir Section Subsections Elevation 961 **ft.**

108	27	W	10	DDDDCB	**Elevation Method**	Calc from DEM (USGS 7.5 min or equiv.)

Well Depth ft. | **Depth Completed ft.** | **Date Well Completed**

Drilling Method

Drilling Fluid

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use

Casing Type **Joint** **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter **Weight** **Hole Diameter**

Open Hole from ft. to ft.

Screen
Diameter **Slot/Gauze** **Length** **Set Between**

Geological Material **Color** **Hardness** **From** **To**

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Department of Health
Method Digitization (Screen) - Map (1:24,000)

Unique Number Verification N/A
Date N/A

System *UTM - Nad83, Zone15, Meters*
X: 416071 **Y:** 4890894

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification

First Bedrock
Last Strat
Aquifer
Depth to Bedrock ft.

License Business Name Lic. Or Reg. No. Name of Driller

STATE_02822815

2222.1858

County Well Index Online Report	52W0006572	Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
52W0006573

County Nicollet
Quad Mankato West
Quad ID 56A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/22/2003
Update Date 01/07/2005
Received Date

Well Name

Township Range Dir Section Subsections Elevation 993 **ft.**

108 27 W 10 DDADAA **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth ft. | **Depth Completed ft.** | **Date Well Completed**

Drilling Method

Drilling Fluid

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use

Casing Type **Joint** **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter **Weight** **Hole Diameter**

Open Hole from ft. to ft.

Screen
Diameter **Slot/Gauze** **Length** **Set Between**

Geological Material **Color** **Hardness** **From** **To**

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Department of Health
Method Digitization (Screen) - Map (1:24,000)

Unique Number Verification N/A
Date N/A

System *UTM - Nad83, Zone15, Meters*
X: 416143 **Y:** 4891134

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification

First Bedrock
Last Strat
Aquifer
Depth to Bedrock ft.

License Business Name Lic. Or Reg. No. Name of Driller

STATE_02822817

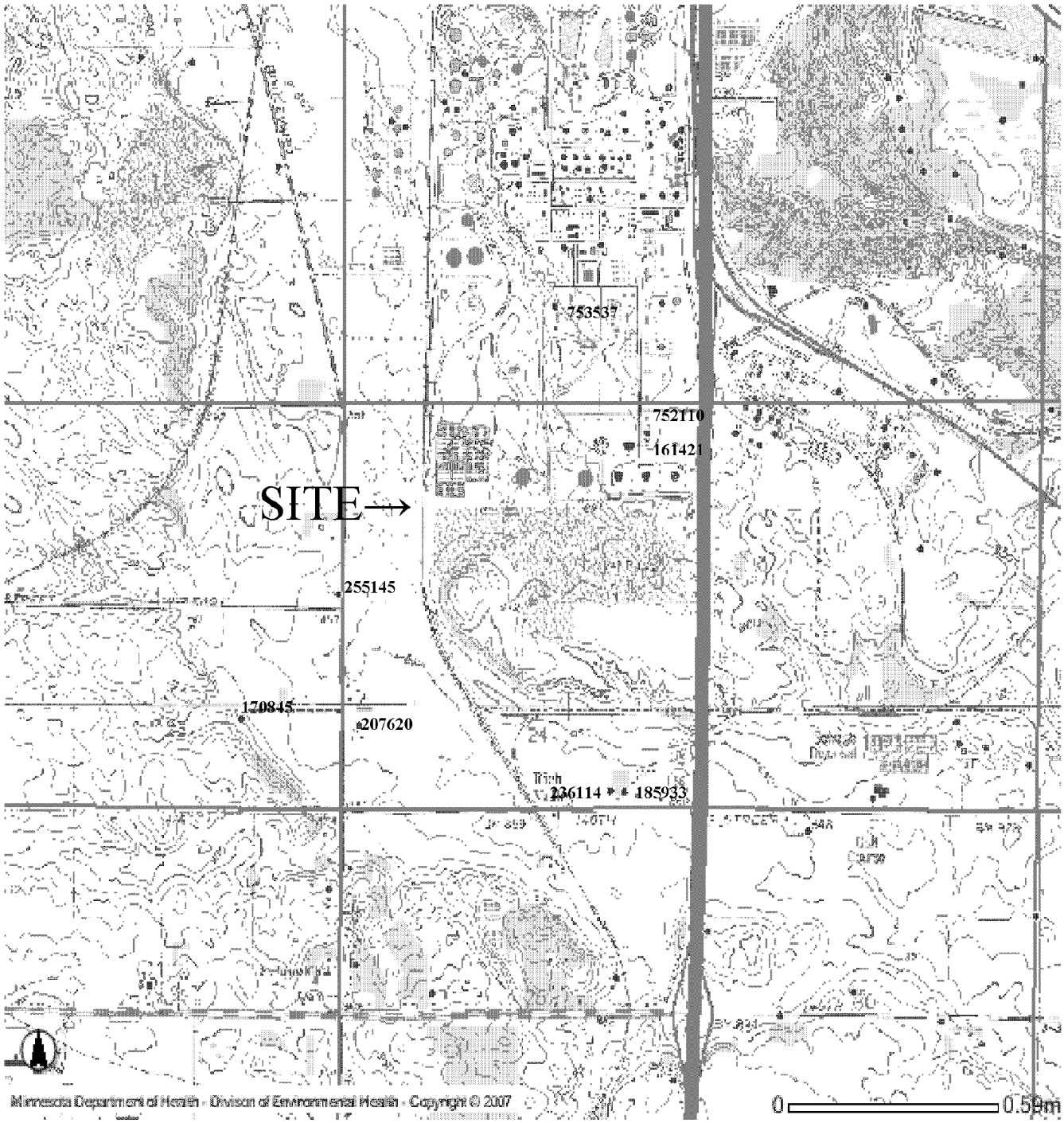
County Well Index Online Report	52W0006573	Printed 6/29/2008 HE-01205-07

SITE SUMMARY

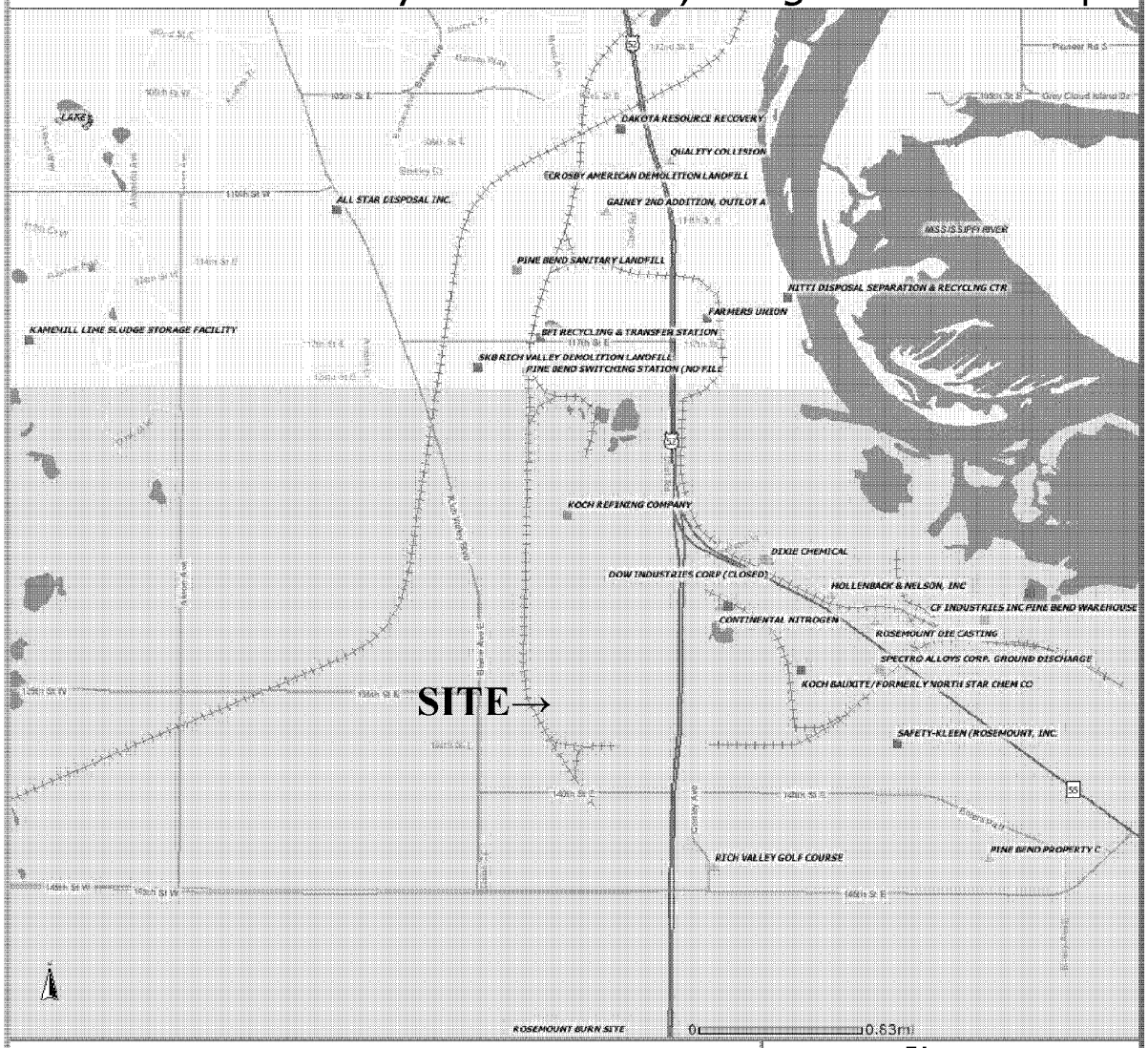
Site Name:	Flint Hills/Pine Bend Refinery
Fire Department:	Flint Hills/Pine Bend Refinery Fire Department Rosemount, MN
Site Contact:	Pete Herpst, Deputy Fire Chief 651-437-0643 pete.herpst@fhr.com

Training Location:	Fire training grounds, southwest corner of the refinery.
Type of foam used in training:	Ansul Thunderstorm AFFF (currently) 3M AFFF(Formerly used for training, still used for fire response; have stockpile of approximately 50,000 gallons of 3M foam.)
Foam training frequency:	Approximately 20 to 25 times during the training season, April through November.
Foam use per training event:	5 to 10 gallons
Spent foam destination:	Lined holding area, pumped to on-site wastewater treatment facility.
Annual foam use:	Ansul Thunderstorm AFFF - up to 300 gallons for training
Nearest surface water:	Unnamed ponds approximately 1 mile north-northeast
Nearest wetland:	1/4 to 1/3 mile east
Karst Area:	Training site is located in a transition or covered karst area
Nearest water well:	Approximately 1/4 mile southwest
Nearest Wellhead Protection Area:	None within one mile
SITE RANKING:	**23**

FLINT HILLS REFINERY - ROSEMOUNT CWI Well Map



Flint Hills Refinery *What's In My Neighborhood* Map



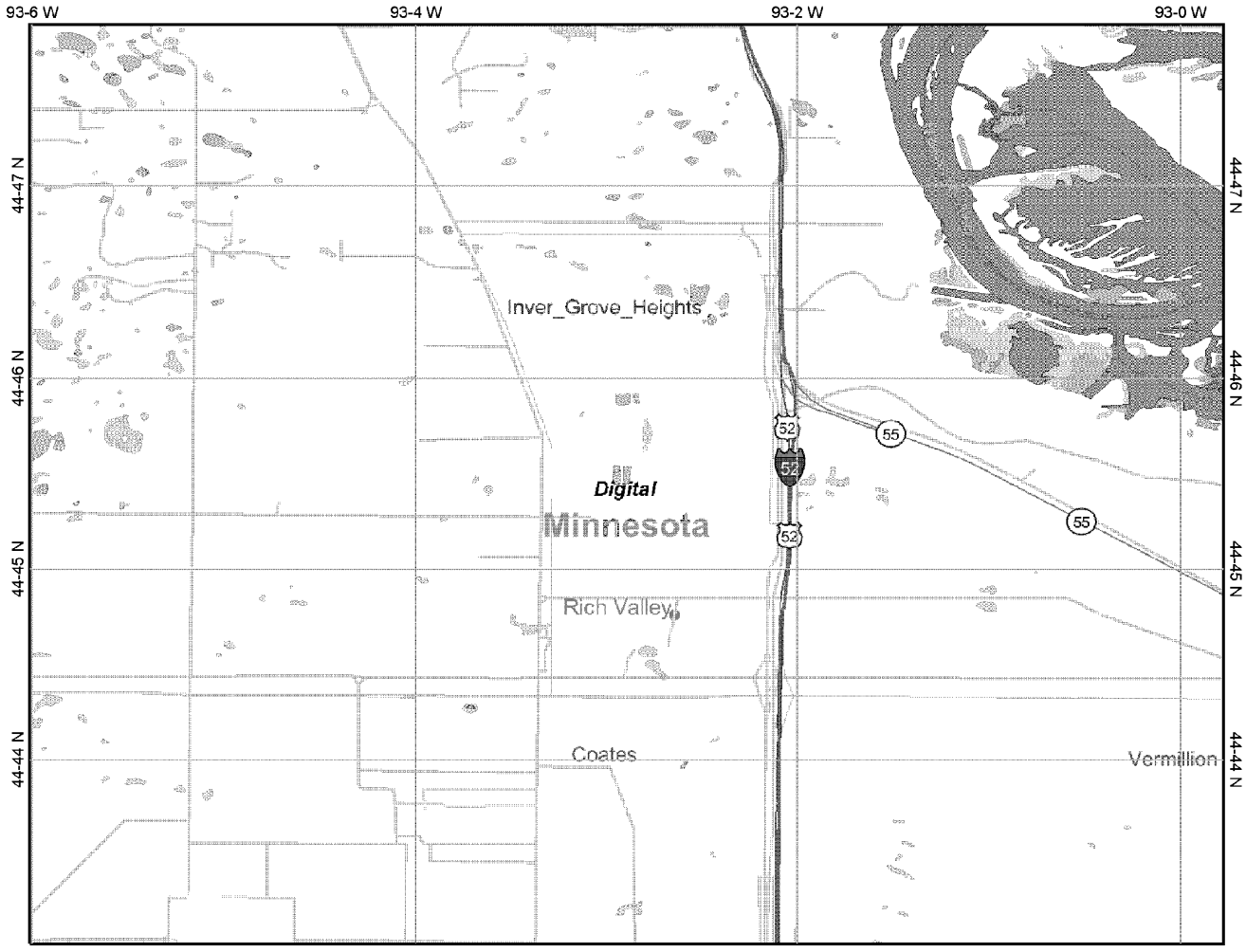
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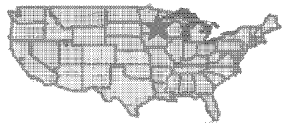
Minnesota Pollution Control Agency

Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NPL/NAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

Flint Hills Refinery Wetland Map





Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:62,288

Map center: 44° 45' 27" N, 93° 2' 54" W

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

2222.1865

STATE_02822822

Minnesota Unique Well No.
161421

County Dakota
Quad Inver Grove Heights
Quad ID 103D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 09/19/1989
Update Date 06/29/2007
Received Date

Well Name KOCH REFINING NO.8
Township Range Dir Section Subsections Elevation 912 **ft.**
115 19 W 24 AABDBD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
1004 **ft.**	1004 **ft.**	06/00/1982

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Industrial

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
24 in. to 123 ft.	lbs./ft.	24 in. to 772 ft.
18 in. to 772 ft.	lbs./ft.	18 in. to 1004 ft.

Open Hole from 772 ft. to 1004 ft.

Screen NO **Make** **Type**

Diameter **Slot/Gauze** **Length** **Set Between**

Well Address

PINE BEND MN 55068

Geological Material	Color	Hardness	From	To
DRIFT			0	116
DRIFT			116	123
LIMEROCK SHAKOPEE			123	302
JORDAN			302	304
JORDAN			304	400
ST. LAWRENCE			400	406
ST. LAWRENCE			406	437
ST. LAWRENCE			437	451
FRANCONIA			451	605
IRONTON-GALESVILLE			605	606
IRONTON-GALESVILLE			606	654
EAU CLAIRE SHALE			654	755
MT. SIMON HINCKLEY			755	1004

Static Water Level
245 ft. from Land surface Date Measured 06/00/1982

PUMPING LEVEL (below land surface)
350 ft. after 88 hrs. pumping 1600 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
M.G.S. NO. 2134.
GAMMA LOGGED 6-27-2007. LOGGED TO 626 FT.

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement from to ft.

Located Minnesota Geological Survey **Method** Digitization (Screen) - Map (1:24,000)
Unique Number Verification Information from owner **Date** 06/27/2007
System *UTM - Nad83, Zone15, Meters* **X:** 497043 **Y:** 4956231

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☑ Yes ☐ No

2222.1866

STATE_02822823

Pump ☐ Not Installed Date Installed 07/12/1982
Manufacturer's name BYRON JACKSON Model number __ HP _ Volts
Length of drop Pipe _ft. Capacity 1600 g.p.m Type Turbine Material Steel (black or low carbon)

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Cuttings Yes **Borehole Geophysics** Yes
First Bedrock Prairie Du Chien Group **Aquifer** Mt.Simon
Last Strat Mt.Simon **Depth to Bedrock** 116 **ft.**

Well Contractor Certification
Bergerson-Caswell 27058
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report | **161421** | Printed 6/15/2008 HE-01205-07

2222.1867

STATE_02822824

Minnesota Unique Well No.
170845

County Dakota
Quad Coates
Quad ID 88A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 03/30/1990
Update Date 03/24/2006
Received Date

Well Name KRAFT, GILBERT
Township Range Dir Section Subsections Elevation 893 **ft.**
115 19 W 23 DCAACA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
126 **ft.**	126 **ft.**	09/22/1980

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 1 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 80 ft.	lbs./ft.	4 in. to 126 ft.

Open Hole from 80 ft. to 126 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
2240 138TH ST
ROSEMOUNT MN 55068

Geological Material	Color	Hardness	From	To
GRAVEL	BROWN	SOFT	0	20
CLAY	BROWN	HARD	20	60
SANDROCK	GRAY	HARD	60	80
LIMEROCK	YELLOW	HARD	80	126

Static Water Level
44 ft. from Land surface Date Measured 09/22/1980

PUMPING LEVEL (below land surface)
44 ft. after 24 hrs. pumping 15 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Bentonite from to 80 ft.

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Information from owner
Date N/A

System *UTM - Nad83, Zone15, Meters*
X: 495211 **Y:** 4955119

Nearest Known Source of Contamination
80 feet W direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☑ Not Installed Date Installed 09/22/1980
Manufacturer's name FAIRBANKS Model number 7511 HP 0.75 Volts 230
Length of drop Pipe 63 ft. Capacity 10 g.p.m
Type Submersible Material Galvanized

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Maher Well Co. 19301 MANN, G.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock St.Peter
Last Strat Prairie Du Chien Group
Aquifer Prairie Du Chien Group
Depth to Bedrock 60 **ft.**

County Well Index Online Report | **170845** | Printed 6/15/2008 HE-01205-07

STATE_02822825

2222.1868

Minnesota Unique Well No.
185933

County Dakota
Quad Coates
Quad ID 88A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 03/30/1990
Update Date 03/24/2006
Received Date

Well Name MCCARTHY, MIKE
Township Range Dir Section Subsections Elevation 855 **ft.**
115 19 W 24 DDCCDA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
110 **ft.**	110 **ft.**	06/24/1981

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 1 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 88 ft.	10.79 lbs./ft.	6 in. to 88 ft.
		4 in. to 110 ft.

Open Hole from 88 ft. to 110 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
45 ft. from Land surface Date Measured 06/24/1981

PUMPING LEVEL (below land surface)
45 ft. after 24 hrs. pumping 15 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
3229 140TH ST E
ROSEMOUNT MN 55068

Geological Material	Color	Hardness	From	To
SAND & GRAVEL	BROWN	MEDIUM	0	50
CLAY	GRAY	MEDIUM	50	85
LIMEROCK	YELLOW	HARD	85	110

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Bentonite from to 88 ft.

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Information from neighbor
Date N/A

System *UTM - Nad83, Zone15, Meters*
X: 496940 **Y:** 4954830

Nearest Known Source of Contamination
75 feet E direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☑ Not Installed Date Installed 06/24/1981
Manufacturer's name FAIRBANKS Model number 4D 5009 HP 0.5 Volts 230
Length of drop Pipe 63 ft. Capacity 10 g.p.m Type Submersible Material Galvanized

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Maher Well Co. 19301 MANN, G.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Prairie Du Chien Group
Aquifer Prairie Du Chien Group
Last Strat Prairie Du Chien Group
Depth to Bedrock 85 **ft.**

County Well Index Online Report

185933

Printed 6/15/2008
HE-01205-07

STATE_02822826

Minnesota Unique Well No.
207620

County Dakota
Quad Coates
Quad ID 88A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 09/15/1988
Update Date 03/24/2006
Received Date

Well Name

Township Range Dir Section Subsections Elevation 965 **ft.**

115 19 W 24 CCBBDC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
275 **ft.**	275 **ft.**	09/10/1971

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
0 in. to 90 ft.	lbs./ft.	

Open Hole from 90 ft. to 275 ft.

Screen NO **Make** **Type**

Diameter **Slot/Gauze** **Length** **Set Between**

Well Address
13780 BLAINE AV
ROSEMOUNT MN 55068

Geological Material	Color	Hardness	From	To
GRAVEL			0	90
LIMESTONE			90	250
SANDSTONE			250	275

Static Water Level
45 ft. from Land surface Date Measured 09/10/1971

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
DRILLED BY GENZ-RYAN.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey **Method** Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification N/A **Date** N/A

System *UTM - Nad83, Zone15, Meters* **X:** 495743 **Y:** 4955093

Nearest Known Source of Contamination
_feet _direction _type

Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

2222.1870

STATE_02822827

		Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No	
		Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No	
First Bedrock Prairie Du Chien Group **Last Strat** Jordan	**Aquifer** Prairie Du Chien-Jordan **Depth to Bedrock** 90 **ft.**	**Well Contractor Certification** License Business Name Lic. Or Reg. No. Name of Driller	
County Well Index Online Report		**207620**	Printed 6/15/2008 HE-01205-07

2222.1871

STATE_02822828

Minnesota Unique Well No.
236114

County Dakota
Quad Coates
Quad ID 88A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 04/22/2003
Update Date 01/18/2005
Received Date

Well Name

Township Range Dir Section Subsections Elevation 859 **ft.**

115 19 W 24 DCDDAD **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth **ft.** | **Depth Completed** **ft.** | **Date Well Completed**

Drilling Method

Drilling Fluid

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use

Casing Type **Joint** **Drive Shoe?** ☐ Yes ☐ No **Above/ Below** **ft.**

Casing Diameter **Weight** **Hole Diameter**

Open Hole from ft. to ft.

Screen
Diameter **Slot/Gauze** **Length** **Set Between**

Geological Material **Color** **Hardness** **From** **To**

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 496878 **Y:** 4954833

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

STATE_02822829

First Bedrock **Last Strat**	**Aquifer** **Depth to Bedrock ft.**	**Well Contractor Certification** License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	**236114**	Printed 6/15/2008 HE-01205-07

Minnesota Unique Well No.
255145

County Dakota
Quad Inver Grove Heights
Quad ID 103D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/22/2003
Update Date 12/04/2006
Received Date

Well Name MGS-20

Township	Range	Dir	Section	Subsections	Elevation	Elevation Method
115	19	W	23	ADDD	866 ft.	7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
50 ft.	50 ft.	05/26/1999

Drilling Method Power Auger

Geological Material	Color	Hardness	From	To
TOPSOIL LOESS, GRAVELLY AT BASE			0	5
MED SAND W/ SM GRANULES FEW SM PEB			5	20
FINE-MED SAND NO PEBBLES			20	30
COARSE SAND SOME GRANULES SM. PEBB			30	42
ABOVE BUT MORE GRANULES SM PEBBLES			42	50

Drilling Fluid
--

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Scientific Investigation

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/ Below ft.**

Casing Diameter	Weight	Hole Diameter

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification N/A **Date** N/A
System *UTM - Nad83, Zone15, Meters*
X: 495647 **Y:** 4955612

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
American Engineering Testing M0171
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat
Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **255145** | Printed 6/15/2008 HE-01205-07

Minnesota Unique Well No.
752110

County Dakota
Quad Inver Grove Heights
Quad ID 103D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 06/27/2007
Update Date 08/17/2007
Received Date

Well Name FLINT HILLS RESOURCES NO. 10
Township Range Dir Section Subsections Elevation 912 **ft.**
115 19 W 24 AABDBA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
1013 **ft.**	1013 **ft.**	06/15/2007

Drilling Method Dual Rotary

Drilling Fluid Water

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use

Geological Material	Color	Hardness	From	To
SAND, GRAVEL, COBBLES	BROWN	SOFT	0	55
FINE SAND & GRAVEL	BROWN	SOFT	55	75
FINE SAND	BROWN	SOFT	75	88
SAND & GRAVEL/CLAY LAYERS	BROWN	SOFT	88	90
SAND GRAV., SANDSTONE, IN REMARKS	BRN/GRN	MEDIUM	90	115
LIMESTONE, SHALE LAYERS	TAN/BRN	MED-HRD	115	296
SANDSTONE	TAN	SOFT	296	300
SANDSTONE & SHALE	GREEN	SOFT	300	302
SANDSTONE	TAN	SOFT	302	330
SANDSTONE	GREEN	MEDIUM	330	370
SANDSTONE & SHALE	GREEN	MED-HRD	370	405
SANDSTONE & SHALE	GREEN	MED-HRD	405	455
SANDSTONE & SHALE	GREEN	MED-HRD	455	523
SHALE	GREEN	MEDIUM	523	526
SHALE & SANDSTONE	GRN/TAN	MEDIUM	526	577
SANDSTONE & SHALE	GRN/TAN	MEDIUM	577	597
SANDSTONE & SHALE	GRN/TAN	MEDIUM	597	607
SANDSTONE	TAN	MEDIUM	607	657
SANDSTONE	TAN	MEDIUM	657	667
SHALE & SANDSTONE	BROWN	MEDIUM	667	672
SHALE	BROWN	MEDIUM	672	712
SHALE & SANDSTONE	GREEN	MEDIUM	712	755
SANDSTONE	GREEN	MEDIUM	755	790
SANDSTONE	TAN	MEDIUM	790	800
SANDSTONE W/LITTLE SHALE CHUNKS	GRY/GRN	MED-HRD	800	933
SANDSTONE	YELLOW	SOFT	933	943
SANDSTONE W/SHALE LENSES	YEL/WHT	MEDIUM	943	955
SANDSTONE	YELLOW	SFT-MED	955	972
SHALE	BROWN	SOFT	972	973
SANDSTONE	YELLOW	SFT-MED	973	985
SANDSTONE	YEL/PNK	SOFT	985	1005
SANDSTONE	YELLOW	SFT-MED	1005	1012
SHALE-RUST BRN&GRAY		SOFT	1012	1013

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☑ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
24 in. to 123 ft.	97.62 lbs./ft.	24 in. to 123 ft.
18 in. to 754 ft.	93.45 lbs./ft.	23 in. to 754 ft.

Open Hole from 754 ft. to 1013 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
347 ft. from Land surface Date Measured 06/15/2007

PUMPING LEVEL (below land surface)
ft. after 48 hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
M.G.S. NO. 4713.
GEOLOGICAL MAT. - 90-115' - SAND GRAVEL, SANDSTONE & SHALE MIX, UNCONSOLIDATED

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Neat Cement from to 754 ft. 48 yrds.

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Information from owner
Date 06/27/2007
System *UTM - Nad83, Zone15, Meters*
X: 497044 **Y:** 4956249

Nearest Known Source of Contamination
200 feet S direction Volatile organic compounds type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Cuttings Yes
First Bedrock St.Peter
Last Strat Pre-Croixan Regolith
Aquifer Mt.Simon
Depth to Bedrock 90 **ft.**

Well Contractor Certification
TRAUT, T.
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report

752110

Printed 6/15/2008
IE-01205-07

Minnesota Unique Well No.
753537

County Dakota
Quad Inver Grove Heights
Quad ID 103D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 12/03/2007
Update Date
Received Date

Well Name

Township Range Dir Section Subsections Elevation 891 **ft.**

115 19 W 13 DCBABA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth ft.	**Depth Completed ft.**	**Date Well Completed**

Drilling Method

Drilling Fluid

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use

Casing Type **Joint** **Drive Shoe?** ☐ Yes ☐ No **Above/ Below ft.**

Casing Diameter	**Weight**	**Hole Diameter**

Open Hole from ft. to ft.

Screen Diameter	**Slot/Gauze**	**Length**	**Set Between**

Geological Material	**Color**	**Hardness**	**From**	**To**

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey **Method** Digitization (Screen) - Map (1:24,000)

Unique Number Verification Site Plan **Date** 12/03/2007

System *UTM - Nad83, Zone15, Meters* **X:** 496629 **Y:** 4956749

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

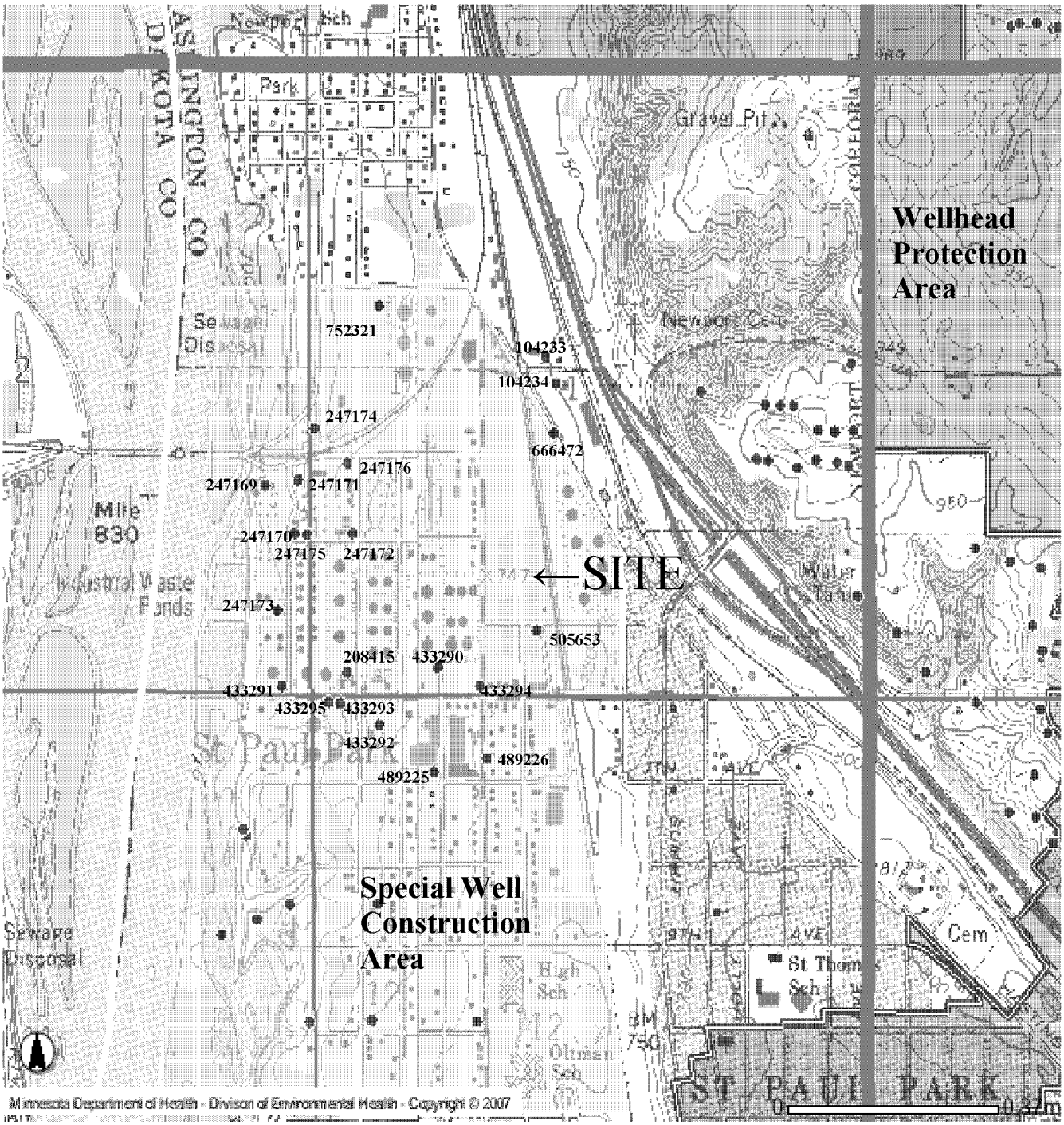
First Bedrock **Last Strat**	**Aquifer** **Depth to Bedrock ft.**	**Well Contractor Certification** License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	**753537**	Printed 6/15/2008 HE-01205-07

SITE SUMMARY

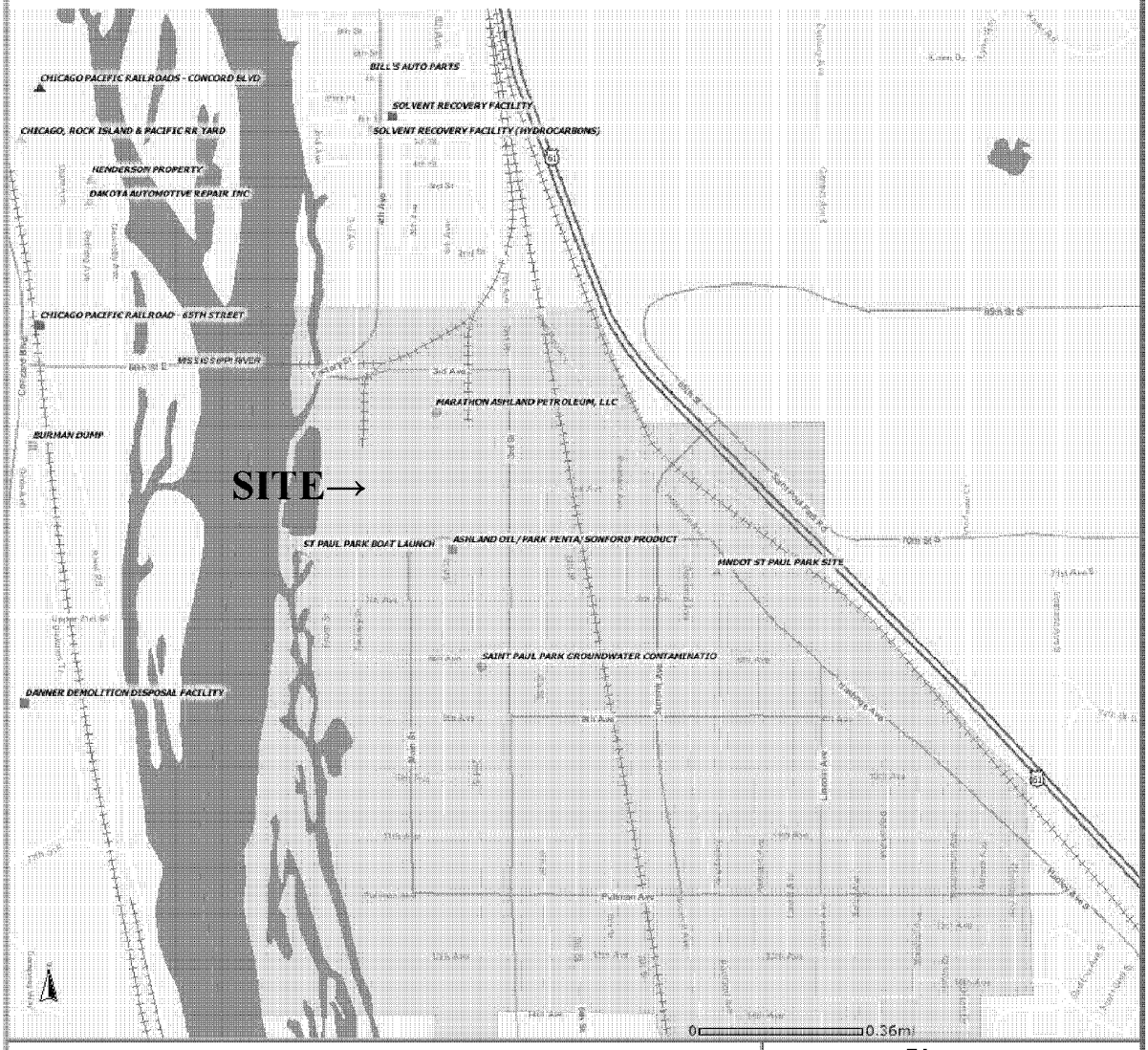
Site Name:	Marathon Refinery
Fire Department:	Marathon Refinery Department St. Paul Park, MN
Site Contact:	Steve Crisp, Deputy Fire Chief 651-458-6461 slcrisp@marathonoil.com

Training Location:	Refinery fire training grounds.
Type of foam used in training:	Switched from 3M to Ansul Thunderstorm AR-AFFF foam in ~2000.
Foam training frequency:	Semi-Annually
Foam use per training event:	50 to 100 gallons
Spent foam destination:	To the ground and to an on-site septic.
Annual foam use:	Use ~250 gallon foam for training; non-training foam use varies.
Nearest surface water:	Mississippi River adjacent to the west
Nearest wetland:	Adjacent to the south
Karst Area:	Site appears to be located in an active karst area
Nearest water well:	On site
Nearest Wellhead Protection Area:	1/2 to 1 mile east
SITE RANKING:	**30**

MARATHON PETROLEUM REFINERY CWI Well Map



Marathon Refinery *What's In My Neighborhood* Map



Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

Minnesota Pollution Control Agency

Sites

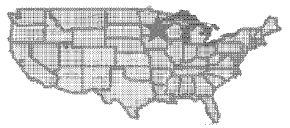
- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

STATE_02822837

2222.1880

Marathon Refinery St Paul Park Wetland Map





Legend

Ohio_wet_scan
- 0
- 1
- Out of range

Interstate

Major Roads
- Other Road
- Interstate
- State highway
- US highway

Roads

Cities

USGS Quad Index 24K

Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan

NHD Streams

Counties 100K

States 100K

South America

North America

Scale: 1:17,533

Map center: 44° 50' 59" N, 92° 59' 56" W

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

2222.1881

STATE_02822838

Minnesota Unique Well No.
104233

County Washington
Quad St Paul Park
Quad ID 102C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 03/01/1989
Update Date 01/18/1996
Received Date

Well Name QUADE TRUCKING WELL NO.2
Township Range Dir Section Subsections Elevation 749 **ft.**
27 22 W 1 BDDCAD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
260 **ft.**	260 **ft.**	10/19/1977

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 1 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 232 ft.	lbs./ft.	

Open Hole from 232 ft. to 260 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
61 HY
ST PAUL PARK MN

Geological Material	Color	Hardness	From	To
GRAVEL	BROWN		0	6
LIME ROCK	YELLOW	HARD	6	180
SANDROCK	GRAY	MEDIUM	180	260

Static Water Level
60 ft. from Land surface Date Measured 10/19/1977

PUMPING LEVEL (below land surface)
60 ft. after hrs. pumping 15 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
WELL AT RED DOG ACODANCE.

Grouting Information Well Grouted? ☑ Yes ☐ No

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number
Verification Information from owner
Date N/A

System *UTM - Nad83, Zone15, Meters*
X: 500346 **Y:** 4966888

Nearest Known Source of Contamination
80 feet W direction Septic tank/drain field type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 08/11/1977
Manufacturer's name FAIRBANKS Model number 4C7511
HP 0.75 Volts 230
Length of drop Pipe 105 ft. Capacity 75 g.p.m
Type Submersible Material Galvanized

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Maher Well Co. 19301 RANISATE, J.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Prairie Du Chien Group
Last Strat Jordan
Aquifer Jordan
Depth to Bedrock 6 **ft.**

County Well Index Online Report | **104233** | Printed 6/29/2008 HE-01205-07

STATE_02822839

2222.1882

Minnesota Unique Well No.
104234

County Washington
Quad St Paul Park
Quad ID 102C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 03/01/1989
Update Date 01/18/1996
Received Date

Well Name WAREHOUSE NO. 1
Township Range Dir Section Subsections Elevation 751 **ft.**
27 22 W 1 CAAAB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
240 **ft.**	240 **ft.**	10/25/1977

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 1 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 199 ft.	lbs./ft.	

Open Hole from 199 ft. to 240 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
61 HY
ST PAUL PARK MN

Geological Material	Color	Hardness	From	To
SAND & GRAVEL	BROWN		0	10
LIMEROCK	YELLOW	HARD	10	170
SANDROCK	GRAY	MEDIUM	170	240

Static Water Level
60 ft. from Land surface Date Measured 10/25/1977

PUMPING LEVEL (below land surface)
60 ft. after hrs. pumping 15 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement from 0 to 179 ft. 2.3 yrds.

Located Minnesota Geological Survey
Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number
Verification Information from owner
Date N/A

System *UTM - Nad83, Zone15, Meters* **X:** 500375 **Y:** 4966823

Nearest Known Source of Contamination
80 feet W direction Septic tank/drain field type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 11/11/1977
Manufacturer's name FAIRBANKS Model number 4C10014 HP 1 Volts 230
Length of drop Pipe 105 ft. Capacity 15 g.p.m
Type Submersible Material Galvanized

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Maher Well Co. 19301 RANISATE, J.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Prairie Du Chien Group
Last Strat Jordan
Aqnifer Jordan
Depth to Bedrock 10 **ft.**

County Well Index Online Report | **104234** | Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
208415

County Washington
Quad Inver Grove Heights
Quad ID 103D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 03/01/1989
Update Date 09/09/2002
Received Date

Well Name NORTHWEST REFINERY 9

Township	Range	Dir	Section	Subsections	Elevation	
27	22	W	1	CCCDCB	723 ft.	7.5 minute topographic map (+/- 5 feet)

Elevation Method

Well Depth	Depth Completed	Date Well Completed
260 ft.	249 ft.	01/08/1969

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 180 ft.	lbs./ft.	8 in. to 180 ft.
		4 in. to 260 ft.

Open Hole from 180 ft. to 249 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
30 ft. from Land surface Date Measured 01/08/1969

PUMPING LEVEL (below land surface)
70 ft. after hrs. pumping 35 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
ST PAUL PARK MN

Geological Material	Color	Hardness	From	To
BLACK DIRT	BLACK		0	4
LIMEROCK	GREEN		4	74
LIMEROCK		M.HARD	74	100
LIMESTONE		SOFT	100	147
LIMESTONE		HARD	147	152
LIMESTONE		SOFT	152	165
JORDAN SANDSTONE		SOFT	165	215
SAND	GRAY	MEDIUM	215	243
SHALE	GRAY		243	260

REMARKS
M.G.S. NO. 521.
OLDER P.A. NO. 68-1472.

Grouting Information Well Grouted? ☑ Yes ☐ No

Located Minnesota Geological Survey

Method Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Information from owner

Date N/A

System *UTM - Nad83, Zone15, Meters*

X: 499782 **Y:** 4966104

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

2222.1884

STATE_02822841

	Pump ☑ Not Installed Date Installed Manufacturer's name Model number ___ HP 3 Volts Length of drop Pipe _ft. Capacity _g.p.m Type Submersible Material
	Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No
	Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No
Cuttings Yes **First Bedrock** Prairie Du Chien Group **Aquifer** Jordan-St.Lawrence **Last Strat** St.Lawrence **Depth to Bedrock** 4 **ft.**	**Well Contractor Certification** Mccarthy Well Co. 27022 License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report	**208415**	Printed 6/29/2008 HE-01205-07

2222.1885

STATE_02822842

Minnesota Unique Well No.
247169

County Washington
Quad Inver Grove Heights
Quad ID 103D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 02/11/1992
Update Date 04/15/1996
Received Date

Well Name NORTHWEST REFINERY 2

Township	Range	Dir	Section	Subsections	Elevation	Elevation Method
27	22	W	2	DADBDC	724 ft.	7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
100 ft.	100 ft.	00/00/1944

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 72 ft.	lbs./ft.	4 in. to 100 ft.

Open Hole from 72 ft. to 100 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address

ST PAUL PARK MN

Geological Material	Color	Hardness	From	To
NO RECORD			0	100

Static Water Level
50 ft. from Land surface Date Measured 1944

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)

Unique Number
Verification Information from owner
Date 02/13/2004

System *UTM - Nad83, Zone15, Meters*
X: 499549 **Y:** 4966569

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Minnesota Department of Health MDH
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat No Record
Aquifer
Depth to Bedrock ft.

County Well Index Online Report

247169

Printed 6/29/2008
HE-01205-07

Minnesota Unique Well No.
247170

County Washington
Quad Inver Grove Heights
Quad ID 103D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 02/11/1992
Update Date 01/18/1996
Received Date

Well Name NORTHWEST REFINERY 3

Township	Range	Dir	Section	Subsections	Elevation	
27	22	W	2	DADDDC	**Elevation Method**	726 **ft.** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
250 **ft.**	250 **ft.**	00/00/1953

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Industrial

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 1 **ft.**

Casing Diameter	Weight	Hole Diameter
16 in. to 53 ft.	lbs./ft.	20 in. to 53 ft.
12 in. to 110 ft.	lbs./ft.	15 in. to 250 ft.

Open Hole from 110 ft. to 250 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address

ST PAUL PARK MN

Geological Material	Color	Hardness	From	To
DRIFT			0	53
SHAKOPEE			53	165
JORDAN			165	250

Static Water Level
64 ft. from Land surface Date Measured 1953

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
KEYS REWORKED WELL IN AUGUST 1971.

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement from 0 to 110 ft. 0 bags

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)

Unique Number
Verification Information from owner
Date 02/13/2004

System *UTM - Nad83, Zone15, Meters*
X: 499633 **Y:** 4966450

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☑ Not Installed Date Installed 08/00/1971
Manufacturer's name PEERLESS Model number ___ HP 60 Volts 440
Length of drop Pipe 200 ft. Capacity 1000 g.p.m Type Turbine Material Steel (black or low carbon)

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Keys Well Co. 62012
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Prairie Du Chien Group
Last Strat Jordan
Aqnifer Multiple
Depth to Bedrock 53 **ft.**

County Well Index Online Report | **247170** | Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
247171

County Washington
Quad Inver Grove Heights
Quad ID 103D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 02/11/1992
Update Date 02/13/1992
Received Date

Well Name NORTHWEST REFINERY 4
Township Range Dir Section Subsections Elevation 728 **ft.**
27 22 W 2 DADADC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
260 **ft.**	260 **ft.**	00/00/1953

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Industrial

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
16 in. to 60 ft.	lbs./ft.	15 in. to 260 ft.

Open Hole from 60 ft. to 260 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address

ST PAUL PARK MN

Geological Material	Color	Hardness	From	To
NO RECORD			0	260

Static Water Level
59 ft. from Land surface Date Measured 1953

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Information from owner
Date 02/13/2004
System *UTM - Nad83, Zone15, Meters*
X: 499643 **Y:** 4966583

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0_ Volts
Length of drop Pipe _ft. Capacity __g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Minnesota Department of Health MDH
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Prairie Du Chien Group
Last Strat No Record
Aquifer Multiple
Depth to Bedrock **ft.**

County Well Index Online Report

247171

Printed 6/29/2008
HE-01205-07

Minnesota Unique Well No.
247172

County Washington
Quad Inver Grove Heights
Quad ID 103D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 02/11/1992
Update Date 03/14/1994
Received Date

Well Name NORTHWEST REFINERY 5
Township Range Dir Section Subsections Elevation 732 **ft.**
27 22 W 1 CBCDCC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
269 **ft.**	260 **ft.**	00/00/1953

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Industrial

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 1 **ft.**

Casing Diameter	Weight	Hole Diameter
16 in. to 60 ft.	lbs./ft.	15 in. to 260 ft.

Open Hole from 60 ft. to 260 ft.

Screen NO **Make** **Type**

Diameter **Slot/Gauze** **Length** **Set Between**

Well Address
ST PAUL PARK MN

Geological Material	Color	Hardness	From	To
LIMEROCK WITH LARGE CREVICES		HARD	0	122
SHALEY LIMEROCK			122	174
SANDROCK			174	233
BLUE SHALE AND SANDROCK			233	269

Static Water Level
62 ft. from Land surface Date Measured 1953

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number
Verification Information from owner
Date 02/13/2004
System *UTM - Nad83, Zone15, Meters*
X: 499797 **Y:** 4966450

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0 Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Minnesota Department of Health MDH
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Prairie Du Chien Group
Last Strat Jordan-St.Lawrence
Aquifer Multiple
Depth to Bedrock 0 **ft.**

County Well Index Online Report **247172** Printed 6/29/2008 HE-01205-07

STATE_02822846

Minnesota Unique Well No.
247173

County Washington
Quad Inver Grove Heights
Quad ID 103D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 02/11/1992
Update Date 01/18/1996
Received Date

Well Name NORTHWEST REFINERY 6
Township Range Dir Section Subsections Elevation 721 **ft.**
27 22 W 2 DDADCC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
173 **ft.**	173 **ft.**	00/00/1956

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 108 ft.	lbs./ft.	4 in. to 173 ft.

Open Hole from 108 ft. to 173 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
ST PAUL PARK MN

Geological Material	Color	Hardness	From	To
NO RECORD			0	108
SHAKOPEE			108	155
JORDAN SANDSTONE			155	173

Static Water Level
61 ft. from Land surface Date Measured 1956

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Information from owner
Date 02/13/2004
System *UTM - Nad83, Zone15, Meters*
X: 499584 **Y:** 4966259

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0 Volts
Length of drop Pipe _ft. Capacity __g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Minnesota Department of Health MDH
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Prairie Du Chien Group
Last Strat Jordan
Aquifer Multiple
Depth to Bedrock **ft.**

County Well Index Online Report

247173

Printed 6/29/2008
HE-01205-07

Minnesota Unique Well No.
247174

County Washington
Quad Inver Grove Heights
Quad ID 103D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 02/13/1992
Update Date 03/14/1994
Received Date

Well Name NORTHWEST REFINERY 7

Township	Range	Dir	Section	Subsections	Elevation
27	22	W	1	CBBCBB	735 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
236 ft.	236 ft.	00/00/1956

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Industrial

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 180 ft.	lbs./ft.	4 in. to 236 ft.

Open Hole from 180 ft. to 236 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
48 ft. from Land surface Date Measured 1956

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address

ST PAUL PARK MN

Geological Material	Color	Hardness	From	To
NO RECORD			0	236

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)

Unique Number
Verification Information from owner
Date 02/13/2004

System *UTM - Nad83, Zone15, Meters*
X: 499689 **Y:** 4966712

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Minnesota Department of Health MDH
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat No Record
Aquifer Jordan
Depth to Bedrock ft.

County Well Index Online Report | **247174** | Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
247175

County Washington
Quad Inver Grove Heights
Quad ID 103D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 02/13/1992
Update Date 01/18/1996
Received Date

Well Name NORTHWEST REFINERY 8
Township Range Dir Section Subsections Elevation 727 **ft.**
27 22 W 2 DADDDD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
257 ft.	257 ft.	00/00/1967

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Industrial

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
6 in. to 180 ft.	lbs./ft.	6 in. to 257 ft.

Well Address
ST PAUL PARK MN

Open Hole from 180 ft. to 257 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
LIMEROCK			0	183
SANDROCK	BROWN		183	216
SANDROCK	GRAY		216	230
SANDROCK	BLU/GRY		230	248
BLUE SHALE ST. LAWRENCE			248	257

Static Water Level
72 ft. from Land surface Date Measured 1967

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement from 0 to 180 ft. 0

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)

Unique Number Verification Information from owner
Date 02/13/2004

System *UTM - Nad83, Zone15, Meters*
X: 499668 **Y:** 4966448

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Minnesota Department of Health MDH
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Prairie Du Chien Group
Last Strat Jordan-St.Lawrence
Aquifer Multiple
Depth to Bedrock 0 **ft.**

County Well Index Online Report

247175

Printed 6/29/2008
HE-01205-07

Minnesota Unique Well No.
247176

County Washington
Quad Inver Grove Heights
Quad ID 103D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 02/13/1992
Update Date 01/18/1996
Received Date

Well Name NORTHWEST REFINERY 10
Township Range Dir Section Subsections Elevation 731 **ft.**
27 22 W 1 CBCABB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
263 **ft.**	263 **ft.**	00/00/1972

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Industrial

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** 0 **ft.**

Casing Diameter	Weight	Hole Diameter
16 in. to 120 ft.	lbs./ft.	15 in. to 263 ft.

Well Address
ST PAUL PARK MN

Open Hole from 120 ft. to 263 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
SAND AND DIRT			0	8
DOLOMITE ROCK			8	176
JORDAN SAND			176	256
ST. LAWRENCE SAND			256	263

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
FORMER PA NO. 72-0946.

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Information from owner
Date 02/13/2004
System *UTM - Nad83, Zone15, Meters*
X: 499783 **Y:** 4966625

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Minnesota Department of Health MDH
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock Prairie Du Chien Group
Last Strat St.Lawrence
Aquifer Multiple
Depth to Bedrock 8 **ft.**

County Well Index Online Report

247176

Printed 6/29/2008
HE-01205-07

Minnesota Unique Well No.
433290

County Washington
Quad St Paul Park
Quad ID 102C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 06/07/1993
Update Date 01/18/1996
Received Date

Well Name ASHLAND PETROLEUM MW-101
Township Range Dir Section Subsections Elevation 745 **ft.**
27 22 W 1 CCDDAC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
53 **ft.**	53 **ft.**	04/12/1989

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Monitor well

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 3 **ft.**

Casing Diameter	Weight	Hole Diameter
8 in. to 14 ft.	lbs./ft.	
4 in. to 28 ft.	lbs./ft.	

Open Hole from 28 ft. to 53 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address

ST PAUL PARK MN

Geological Material	Color	Hardness	From	To
DRIFT, SAND & CLAY	BLACK		0	15
CLAY & GRAVEL	BROWN		15	26
LIMEROCK	YEL/TAN		26	53

REMARKS
M.G.S. NO. 3091.

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement from 0 to 28 ft. 13 bags

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)

Unique Number Verification Information from owner
Date 02/13/2004

System *UTM - Nad83, Zone15, Meters*
X: 500039 **Y:** 4966117

Nearest Known Source of Contamination
_feet _direction _type

Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Cuttings Yes
First Bedrock Prairie Du Chien Group
Last Strat Prairie Du Chien Group
Aquifer Prairie Du Chien Group
Depth to Bedrock 26 **ft.**

Well Contractor Certification

Keys Well Co.	62012	SAMPSON, C.
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report | **433290** | Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
433291

County Washington
Quad Inver Grove Heights
Quad ID 103D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 06/07/1993
Update Date 03/06/2002
Received Date

Well Name ASHLAND PETROLEUM MW-102
Township Range Dir Section Subsections Elevation 725 **ft.**
27 22 W 2 DDDDCC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
47 ft.	47 ft.	04/26/1989

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Monitor well

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 3 **ft.**

Casing Diameter	Weight	Hole Diameter
8 in. to 13 ft.	lbs./ft.	
4 in. to 22 ft.	lbs./ft.	

Open Hole from 22 ft. to 47 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
ST PAUL PARK MN 55071

Geological Material	Color	Hardness	From	To
DRIFT, SAND & CLAY	BLACK		0	6
LIMEROCK	YEL/TAN		6	47

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
M.G.S. NO. 2788.
27-22-2 DDDDCC
ELEV 725-+5
103-D

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement from 0 to 22 ft. 8.5 bags

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)

Unique Number Verification Information from owner
Date 02/13/2004

System *UTM - Nad83, Zone15, Meters*
X: 499596 **Y:** 4966070

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Cuttings Yes
First Bedrock Prairie Du Chien Group
Last Strat Prairie Du Chien Group
Aquifer Prairie Du Chien Group
Depth to Bedrock 6 **ft.**

Well Contractor Certification

Keys Well Co.	62012	SAMPSON, C.
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report | **433291** | Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
433292

County Washington
Quad Inver Grove Heights
Quad ID 103D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 06/07/1993
Update Date 01/18/1996
Received Date

Well Name ASHLAND PETROLEUM MW-103
Township Range Dir Section Subsections Elevation 743 **ft.**
27 22 W 12 BBBADA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
57 ft.	57 ft.	03/27/1989

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Monitor well

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 3 **ft.**

Casing Diameter	Weight	Hole Diameter
8 in. to 9 ft.	lbs./ft.	
4 in. to 31 ft.	lbs./ft.	

Open Hole from 31 ft. to 47 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
ST PAUL PARK MN 55071

Geological Material	Color	Hardness	From	To
DRIFT, SAND & CLAY	BLACK		0	7
LIMEROCK	YEL/TAN		7	57

REMARKS
M.G.S. NO. 2860.

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement from 0 to 31 ft. 20 bags

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Information from owner
Date 02/13/2004
System *UTM - Nad83, Zone15, Meters*
X: 499874 **Y:** 4965974

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Keys Well Co. 62012 SAMPSON, C.
License Business Name Lic. Or Reg. No. Name of Driller

Cuttings Yes
First Bedrock Prairie Du Chien Group
Last Strat Prairie Du Chien Group
Aquifer Prairie Du Chien Group
Depth to Bedrock 7 **ft.**

County Well Index Online Report | **433292** | Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
433293

County Washington
Quad Inver Grove Heights
Quad ID 103D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 06/10/1993
Update Date 01/18/1996
Received Date

Well Name ASHLAND PETROLEUM MW-104
Township Range Dir Section Subsections Elevation 733 **ft.**
27 22 W 12 BBBBAB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
52 **ft.**	52 **ft.**	04/25/1989

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 3 **ft.**

Casing Diameter	Weight	Hole Diameter
8 in. to 9 ft.	lbs./ft.	
4 in. to 27 ft.	lbs./ft.	

Open Hole from 27 ft. to 52 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
ST PAUL PARK MN 55071

Geological Material	Color	Hardness	From	To
DRIFT, SAND AND CLAY	BLACK		0	2
LIMEROCK	YEL/TAN		2	52

REMARKS
M.G.S. NO. 2784.

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement from 0 to 27 ft. 11.5 bags

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Information from owner
Date 02/13/2004
System *UTM - Nad83, Zone15, Meters*
X: 499762 **Y:** 4966028

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Cuttings Yes
First Bedrock Prairie Du Chien Group
Last Strat Prairie Du Chien Group
Aquifer Prairie Du Chien Group
Depth to Bedrock 2 **ft.**

Well Contractor Certification

Keys Well Co.	62012	SAMPSON, C.
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report | **433293** | Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
433294

County Washington
Quad St Paul Park
Quad ID 102C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 06/07/1993
Update Date 01/18/1996
Received Date

Well Name ASHLAND PETROLEUM MW-105
Township Range Dir Section Subsections Elevation 745 **ft.**
27 22 W 1 CDCCDA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
53 **ft.**	53 **ft.**	04/17/1989

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Monitor well

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 3 **ft.**

Casing Diameter	Weight	Hole Diameter
8 in. to 30 ft.	lbs./ft.	

Open Hole from 30 ft. to 53 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
ST PAUL PARK MN 55071

Geological Material	Color	Hardness	From	To
DRIFT, SAND & CLAY	BLACK		0	1
LIMEROCK	YEL/TAN		1	53

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
M.G.S. NO. 2953.

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Neat Cement from 0 to 28 ft. 14 bags

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Information from owner
Date 02/13/2004
System *UTM - Nad83, Zone15, Meters*
X: 500158 **Y:** 4966070

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Cuttings Yes
First Bedrock Prairie Du Chien Group
Last Strat Prairie Du Chien Group
Aquifer Prairie Du Chien Group
Depth to Bedrock 1 **ft.**

Well Contractor Certification

Keys Well Co.	62012	SAMPSON, C.
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report | **433294** | Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
433295

County Washington
Quad Inver Grove Heights
Quad ID 103D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 06/10/1993
Update Date 05/06/2005
Received Date

Well Name ASHLAND PETROLEUM MW-204
Township Range Dir Section Subsections Elevation 729 **ft.**
27 22 W 12 BBBBBA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
56 **ft.**	56 **ft.**	05/15/1989

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 3 **ft.**

Casing Diameter	Weight	Hole Diameter
8 in. to 56 ft.	lbs./ft.	

Open Hole from 56 ft. to 56 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

Well Address
ST PAUL PARK MN 55071

Geological Material	Color	Hardness	From	To
DRIFT, SAND AND CLAY	BLACK		0	2
LIMEROCK	YEL/TAN		2	53
LIMEROCK WITH SHALE LAYER			53	56

REMARKS
M.G.S. NO.3090.
WELL SEALED 11-09-2000 BY 62012
ORIGINAL USE DO - DOMESTIC

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Neat Cement from 0 to 56 ft. 35 bags

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Information from owner
Date 02/13/2004
System *UTM - Nad83, Zone15, Meters*
X: 499729 **Y:** 4966030

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP 0_ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Cuttings Yes
First Bedrock Prairie Du Chien Group
Last Strat Prairie Du Chien Group
Aquifer Prairie Du Chien Group
Depth to Bedrock 2 **ft.**

Well Contractor Certification

Keys Well Co.	62012	SAMPSON, C.
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report | **433295** | Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.

489225

County Washington
Quad St Paul Park
Quad ID 102C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 12/21/1992
Update Date 04/25/2007
Received Date

Well Name L-300
Township Range Dir Section Subsections Elevation 744 **ft.**

27	22	W	12	BBADCD	**Elevation Method**	7.5 minute topographic map (+/- 5 feet)

Well Depth	**Depth Completed**	**Date Well Completed**
50 **ft.**	50 **ft.**	04/24/1992

Drilling Method Air Rotary

Drilling Fluid
--

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 3 **ft.**

Casing Diameter	**Weight**	**Hole Diameter**
12 in. to 4 ft.	lbs./ft.	
6 in. to 25 ft.	lbs./ft.	

Open Hole from 25 ft. to 50 ft.

Screen NO **Make** **Type**

Diameter **Slot/Gauze** **Length** **Set Between**

Geological Material	**Color**	**Hardness**	**From**	**To**
TOP SOIL	BLACK		0	1
GRAVEL	BROWN		1	4
LIMESTONE	TAN		4	50

Static Water Level
31 ft. from Land surface Date Measured 04/24/1992

PUMPING LEVEL (below land surface)
40 ft. after 1.25 hrs. pumping 10 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
WELL L-300
WELL SEALED 11-09-2000 BY 62012
ORIGINAL USE MW - MONITOR WELL

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement from to 25 ft. 13

Located Minnesota Department of Health **Method** GPS SA Off (averaged)
Unique Number Verification N/A **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 500029 **Y:** 4965857

Nearest Known Source of Contamination
50 feet W direction Septic tank/drain field type
Well disinfected upon completion? ☐ Yes ☑ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

2222.1900

STATE_02822857

	Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No
	Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No
	Well Contractor Certification
First Bedrock Prairie Du Chien Group **Aquifer** Prairie Du Chien Group **Last Strat** Prairie Du Chien Group **Depth to Bedrock** 4 **ft.**	Keys Well Co. 62012 SAMPSON, C. License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report	**489225**	Printed 6/29/2008 IIE-01205-07

2222.1901

STATE_02822858

Minnesota Unique Well No.
489226

County Washington
Quad St Paul Park
Quad ID 102C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 12/21/1992
Update Date 04/25/2007
Received Date

Well Name L-301
Township Range Dir Section Subsections Elevation 751 **ft.**
27 22 W 12 BABCDA **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
50 **ft.**	50 **ft.**	04/24/1992

Drilling Method Multiple methods used

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 3 **ft.**

Casing Diameter	Weight	Hole Diameter
12 in. to 12 ft.	lbs./ft.	
6 in. to 25 ft.	lbs./ft.	

Open Hole from 25 ft. to 50 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
TOP SOIL	BLACK		0	3
BROKEN LIMESTONE	YELLOW		3	12
LIMESTONE	TAN		12	50

Static Water Level
30 ft. from Land surface Date Measured 04/24/1992

PUMPING LEVEL (below land surface)
43 ft. after 1.25 hrs. pumping 10 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
WELL L-301
WELL SEALED 11-09-2000 BY 62012
ORIGINAL USE MW - MONITOR WELL

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement from to 25 ft. 21 yrds.

Located Minnesota Department of Health **Method** GPS SA Off (averaged)
Unique Number Verification N/A **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 500179 **Y:** 4965890

Nearest Known Source of Contamination
50 feet _direction Sewer type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification

Keys Well Co.	62012	SAMPSON, C.
License Business Name	Lic. Or Reg. No.	Name of Driller

First Bedrock Prairie Du Chien Group **Aquifer** Prairie Du Chien Group
Last Strat Prairie Du Chien Group **Depth to Bedrock** 3 **ft.**

County Well Index Online Report | **489226** | Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
505653

County Washington
Quad St Paul Park
Quad ID 102C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 12/21/1992
Update Date 04/25/2007
Received Date

Well Name WW-11 # 265

Township	Range	Dir	Section	Subsections	Elevation
27	22	W	1	CDDBBD	748 ft.

Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
226 ft.	226 ft.	12/28/1989

Drilling Method Cable Tool

Drilling Fluid Water

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Abandoned **Status** Sealed

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 2 ft.

Casing Diameter	Weight	Hole Diameter
12 in. to 45 ft.	49.56 lbs./ft.	
6 in. to 201.8 ft.	18.97 lbs./ft.	

Open Hole from 201 ft. to 226 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
400 5TH AV
MN

Geological Material	Color	Hardness	From	To
BROKEN LIMEROCK	YELLOW		0	12
HARD LIMEROCK	YELLOW		12	173
SANDSTONE	YELLOW		173	202
SANDSTONE	YELLOW		202	220
SANDSTONE	GRAY		220	226

Static Water Level
50.6 ft. from Land surface Date Measured 12/28/1989

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
WELL 265
WELL SEALED 04-06-2004 BY 34625
ORIGINAL USE MW - MONITOR WELL

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement	from	to 45 ft.	4.75 bags
Grout Material: Neat Cement	from	to 201 ft.	7.25 bags

Located Minnesota Department of Health
Method Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A
Date N/A
System *UTM - Nad83, Zone15, Meters*
X: 500320 **Y:** 4966209

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☑ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification

License Business Name	Lic. Or Reg. No.	Name of Driller
Renner E.H. Well	71015	LEDBETER, B.

First Bedrock Prairie Du Chien Group
Last Strat Jordan
Aquifer Jordan
Depth to Bedrock 0 ft.

County Well Index Online Report

505653

Printed 6/29/2008
HE-01205-07

Minnesota Unique Well No.
666472

County Washington
Quad St Paul Park
Quad ID 102C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date
Update Date 08/02/2006
Received Date 11/08/2004

Well Name CITY OF ST. PAUL PARK
Township Range Dir Section Subsections Elevation 757 **ft.**
27 22 W 1 CAACAD **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
30 **ft.**	30 **ft.**	10/27/2004

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☑ No
From Ft. to Ft.

Use Monitor well

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?**
☑ Yes ☐ No **Above/Below** ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 9.5 ft.	lbs./ft.	12 in. to 5 ft.
		8 in. to 9.5 ft.

Open Hole from 9.5 ft. to 30 ft.

Screen NO **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Well Address
HASTINGS AV
ST PAUL PARK MN

Geological Material	Color	Hardness	From	To
SILTY CLAY	DK. BRN		0	7
LIMESTONE	TAN		7	30

Static Water Level
10.6 ft. from No Information Date Measured 10/27/2004

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☑ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Neat Cement from to 9.5 ft. 6 bags

Located Minnesota Department of Health **Method** GPS SA Off (averaged)
Unique Number Verification N/A **Date** 11/04/2004
System *UTM - Nad83, Zone15, Meters* **X:** 500368 **Y:** 4966699

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☑ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number __ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐
Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No

Well Contractor Certification
Stevens Well Co. 86654 JOHNSON, R.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock **Aquifer**
Last Strat **Depth to Bedrock** ft.

County Well Index Online Report | **666472** | Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
752321

County Washington
Quad Inver Grove Heights
Quad ID 103D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 01/25/2008
Update Date 02/28/2008
Received Date

Well Name MW-700A
Township Range Dir Section Subsections Elevation 732 **ft.**

27	22	W	1	BCCAAA	**Elevation Method**	7.5 minute topographic map (+/- 5 feet)

Well Depth	**Depth Completed**	**Date Well Completed**
60 **ft.**	60 **ft.**	11/08/2007

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Monitor well

Casing Type Steel (black or low carbon) **Joint** No Information **Drive Shoe?** ☐ Yes ☑ No **Above/Below ft.**

Casing Diameter	**Weight**	**Hole Diameter**
6 in. to 25.5 ft.	lbs./ft.	10 in. to 60 ft.

Open Hole from 25.5 ft. to 60 ft.

Screen NO **Make** **Type**

Diameter **Slot/Gauze** **Length** **Set Between**

Well Address
2ND ST
ST PAUL PARK MN 55071

Geological Material	**Color**	**Hardness**	**From**	**To**
FILL DEBRIS	BLK/BRN	MEDIUM	0	9
LIMESTONE	YELLOW	HARD	9	60

Static Water Level
47 ft. from Land surface Date Measured 11/08/2007

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☑ Casing Protection Y ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Grout Material: Neat Cement from to 24 ft. 6 bags

Located Minnesota Geological Survey **Method** Digitization (Screen) - Map (1:24,000)
Unique Number Verification Info/GPS from data source **Date** 02/28/2008
System *UTM - Nad83, Zone15, Meters* **X:** 499873 **Y:** 4967016

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☑ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

2222.1905

STATE_02822862

		Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No
		Variance Was a variance granted from the MDH for this well? ☐ Yes ☑ No
		Well Contractor Certification
First Bedrock Prairie Du Chien Group **Last Strat** Prairie Du Chien Group	**Aquifer** Prairie Du Chien Group **Depth to Bedrock** 9 **ft.**	Thein Well Co., Inc. 1337 WINTHER, M. License Business Name Lic. Or Reg. No. Name of Driller
County Well Index Online Report	**752321**	Printed 6/29/2008 HE-01205-07

2222.1906

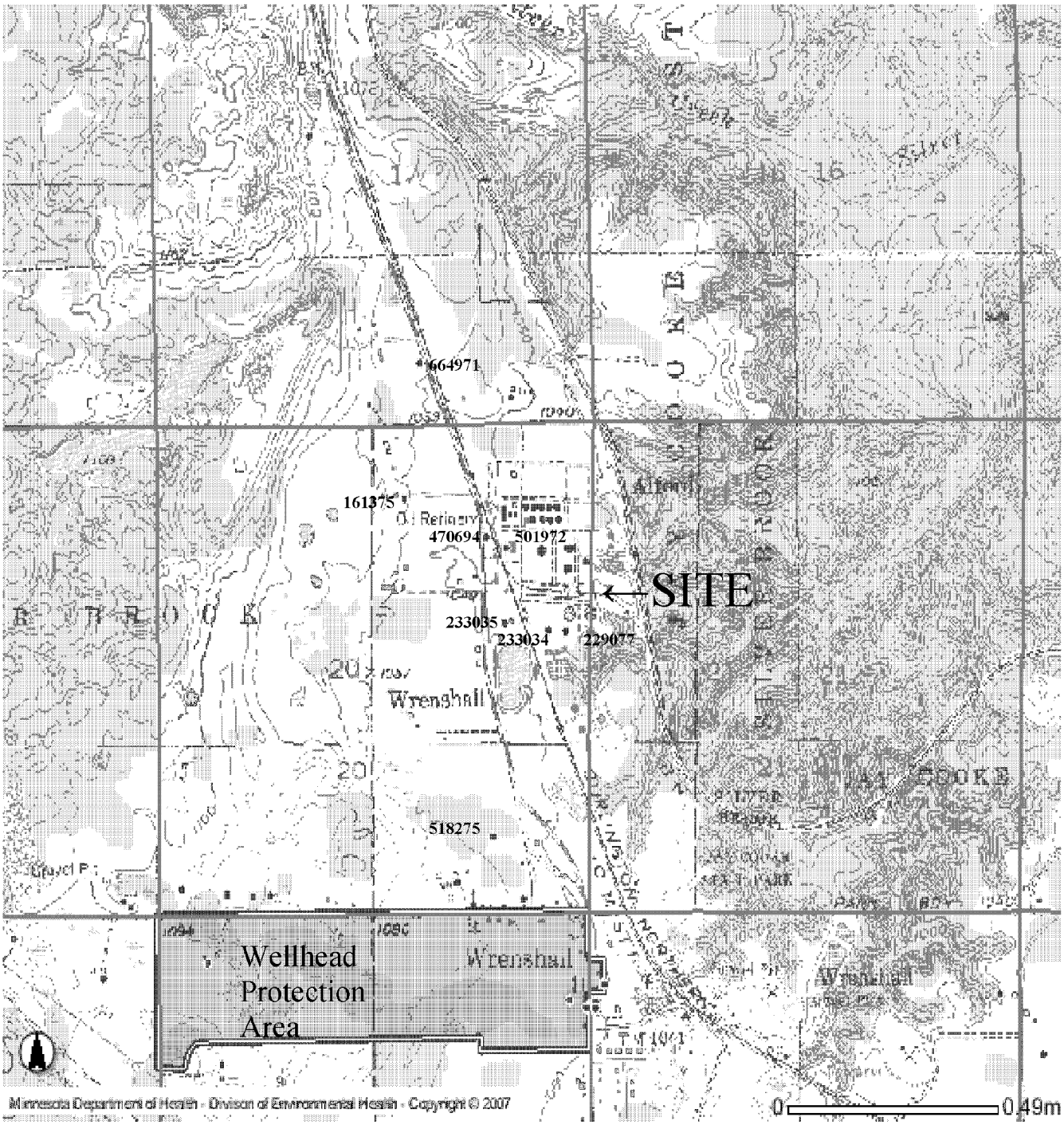
STATE_02822863

SITE SUMMARY

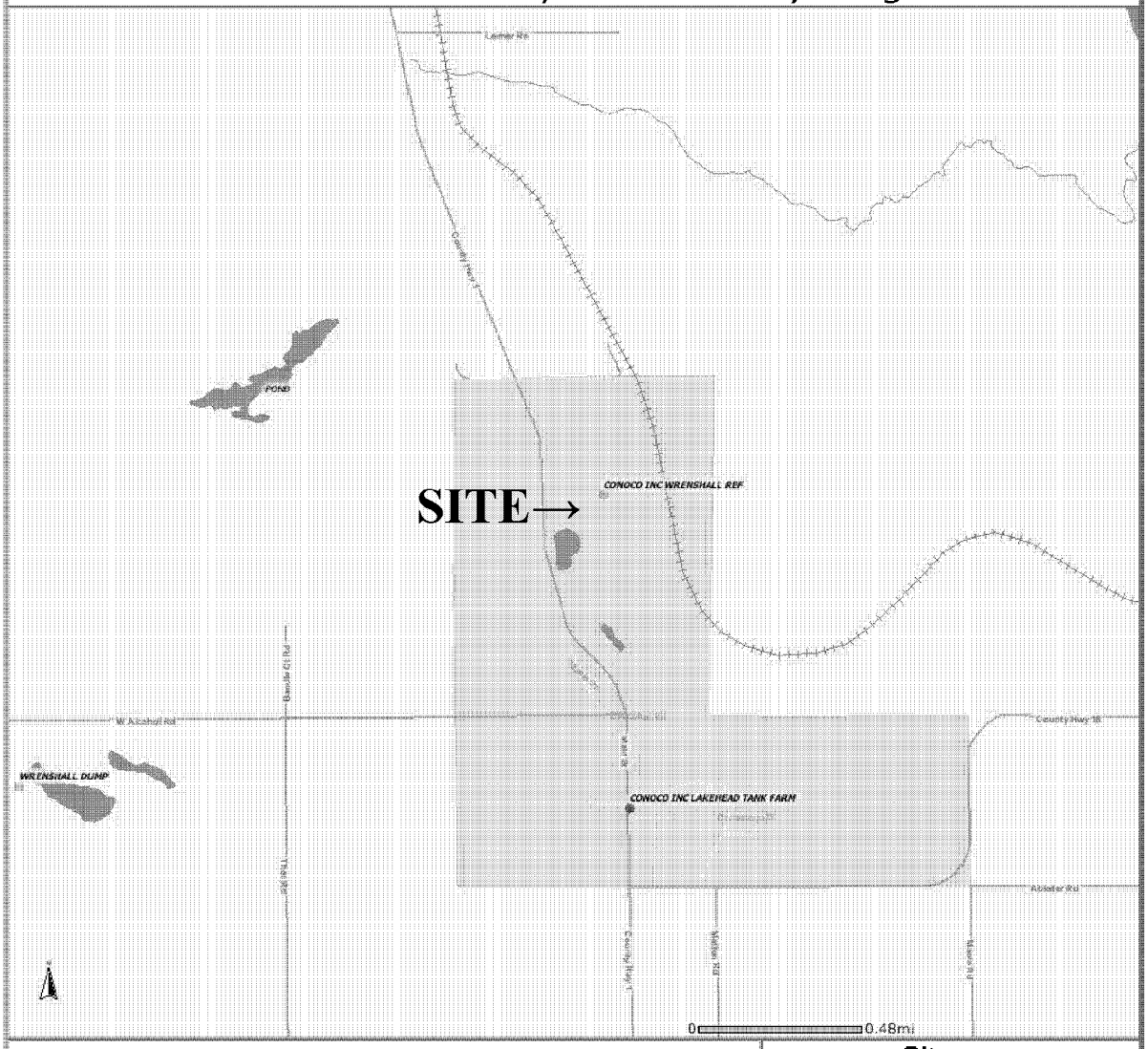
Site Name:	Former Wrenshall Refinery
Fire Department:	Former Wrenshall Refinery Highway 1 Wrenshall, MN
Site Contact:	Information provided by Wrenshall Fire Chief Nick Shande 218-384-4670 wrenshallfire@aol.com

Training Location:	On-site training with foam. Per Mr. Shande, refinery had foam and firefighting equipment, and the Wrenshall Fire Department responded to fires. Refinery apparently had some trained firefighters, but also utilized city fire department.
Type of foam used in training:	Unknown, 3M foam use assumed
Foam training frequency:	Unknown
Foam use per training event:	Unknown
Spent foam destination:	Unknown
Annual foam use:	Unknown
Nearest surface water:	Unnamed pond on site; unnamed streams approximately 1/4 mile to the east
Nearest wetland:	On site
Nearest water well:	On site
Nearest Wellhead Protection Area:	1/4 to 1/2 mile south
SITE RANKING:	**25** (ranking assumes historic maximal use of 3M foam in training)

WRENSHALL FORMER REFINERY CWI Well Map



Former Wrenshall Refinery *What's In My Neighborhood*



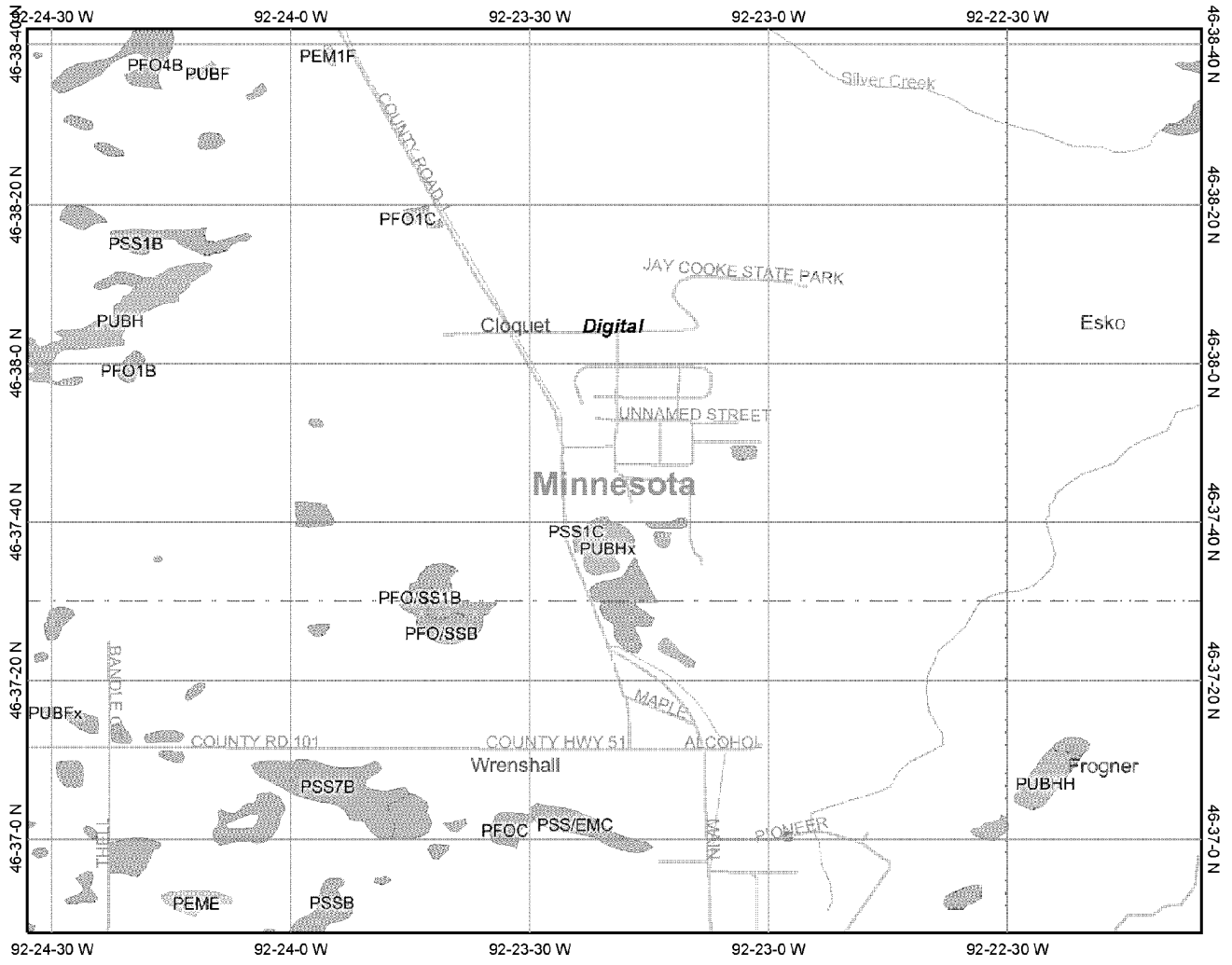
Disclaimer: Map and site information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against MPCA that may arise from the use of this data.

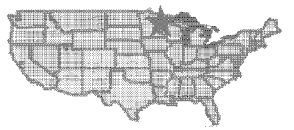
Minnesota Pollution Control Agency

Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- HFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

Wrenshall Former Refinery Wetland Map





Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:24,584

Map center: 46° 37' 45" N, 92° 23' 19" W

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

2222.1910

STATE_02822867

Minnesota Unique Well No.
161375

County Carlton
Quad Cloquet
Quad ID 224B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/14/1991
Update Date 06/05/2006
Received Date

Well Name ZIEBARTH, DUANE
Township Range Dir Section Subsections Elevation 1062 **ft.**
48 16 W 20 ABCABC **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
119 **ft.**	119 **ft.**	07/00/1981

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below** 1 **ft.**

Casing Diameter	Weight	Hole Diameter
4 in. to 115 ft.	11 lbs./ft.	

Open Hole from ft. to ft.

Screen YES **Make** JOIINSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	12	4	115 ft. and 119 ft.

Well Address

WRENSHALL MN 55797

Geological Material	Color	Hardness	From	To
GRAVEL	BROWN	SOFT	0	18
CLAY	BROWN	SOFT	18	37
SAND	BROWN	SOFT	37	77
STREAKS OF CLAY & SAND	BROWN	SOFT	77	82
CLAY	BROWN	SOFT	82	113
SAND	BROWN	SOFT	113	119

Static Water Level
85 ft. from Land surface Date Measured 07/26/1981

PUMPING LEVEL (below land surface)
85 ft. after 1 hrs. pumping 6 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No

Located Carlton Cty. Soil & Water Cons. Dist. **Method** Digitization (Screen) - Map (1:24,000)
Unique Number Verification N/A **Date** 04/26/2005
System *UTM - Nad83, Zone15, Meters* **X:** 546366 **Y:** 5164461

Nearest Known Source of Contamination
100 feet S direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Schwock Well Co. 09116 NEGAARD, D.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-brown
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **161375** | Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
229077

County Carlton
Quad Cloquet
Quad ID 224B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/14/1991
Update Date 02/13/2008
Received Date

Well Name CONOCO REFINERY NO.1
Township Range Dir Section Subsections Elevation 1046 **ft.**
48 16 W 20 ADDBDD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
151 **ft.**	151 **ft.**	10/15/1952

Drilling Method --

Geological Material	Color	Hardness	From	To
FILL			0	3
CLAY			3	28
CLAY, GRAVEL & BOULDERS			28	40
DRY SAND & GRAVEL			40	57
DRY MED TO FINE SAND			57	81
SANDY CLAY	RED		81	111
CLEAN SAND & GRAVEL			111	130
RED CLAY & GRAVEL			130	151

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Industrial

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter	Weight	Hole Diameter

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
96 ft. from Land surface Date Measured 10/00/1952

PUMPING LEVEL (below land surface)
124 ft. after 24 hrs. pumping 600 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number
Verification Other, note in remarks
Date 08/01/2007
System *UTM - Nad83, Zone15, Meters*
X: 546968 **Y:** 5164028

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Bergerson-Caswell 27058
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Pebbly sand/silt/clay-red
Aquifer
Depth to Bedrock **ft.**

County Well Index Online Report

229077

Printed 6/29/2008
HE-01205-07

Minnesota Unique Well No.
233034

County Carlton
Quad Cloquet
Quad ID 224B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/14/1991
Update Date 02/13/2008
Received Date

Well Name CONOCO REFINERY NO.2
Township Range Dir Section Subsections Elevation 1046 **ft.**

48	16	W	20	ADDBCD	**Elevation Method**	7.5 minute topographic map (+/- 5 feet)

Well Depth	**Depth Completed**	**Date Well Completed**
150 **ft.**	150 **ft.**	10/00/1952

Drilling Method --

Geological Material	**Color**	**Hardness**	**From**	**To**
CLAY	RED		0	12
CLAY & GRAVEL			12	25
SAND, GRAVEL & BOULDERS			25	67
DRY MED TO FINE SAND			67	88
COARSE SAND			88	130
COARSE SAND & GRAVEL			130	143
SAND, GRAVEL & STONE			143	150

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Industrial

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter	**Weight**	**Hole Diameter**

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter	**Slot/Gauze**	**Length**	**Set Between**

Static Water Level
98 ft. from Land surface Date Measured 10/00/1952

PUMPING LEVEL (below land surface)
123 ft. after 24 hrs. pumping 600 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number
Verification Other, note in remarks
Date 08/01/2007
System *UTM - Nad83, Zone15, Meters*
X: 546902 **Y:** 5164033

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well (s)? ☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Bergerson-Caswell 27058
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand & larger
Aquifer
Depth to Bedrock **ft.**

County Well Index Online Report | **233034** | Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
233035

County Carlton
Quad Cloquet
Quad ID 224B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/14/1991
Update Date 02/13/2008
Received Date

Well Name CONOC REFINERY NO.3
Township Range Dir Section Subsections Elevation 1046 **ft.**
48 16 W 20 ADCBDB **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
150 **ft.**	150 **ft.**	10/00/1952

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Industrial

Casing Type **Joint** No Information **Drive Shoe?** ☐ Yes ☐ No **Above/Below** **ft.**

Casing Diameter	Weight	Hole Diameter

Open Hole from ft. to ft.

Screen **Make** **Type**

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
CLAY	YELLOW		0	8
CLAY	BLUE		8	45
SANDY CLAY	BROWN		45	75
DIRTY SAND & GRAVEL			75	85
SAND & GRAVEL			85	138
SAND & GRAVEL, CLAY			138	150

Static Water Level
91 ft. from Land surface Date Measured 10/00/1952

PUMPING LEVEL (below land surface)
114 ft. after 24 hrs. pumping 600 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☐ Yes ☐ No

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number
Verification Other, note in remarks
Date 08/01/2007
System *UTM - Nad83, Zone15, Meters*
X: 546739 **Y:** 5164055

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed
Manufacturer's name Model number ___ HP _ Volts
Length of drop Pipe _ft. Capacity _g.p.m Type Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☐ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Bergerson-Caswell 27058
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Pebbly sand/silt/clay
Aquifer
Depth to Bedrock **ft.**

County Well Index Online Report | **233035** | Printed 6/29/2008 HE-01205-07

STATE_02822872

2222.1915

Minnesota Unique Well No.
501972

County Carlton
Quad Cloquet
Quad ID 224B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 08/14/1991
Update Date 11/15/2007
Received Date

Well Name CONOCO, INC.
Township Range Dir Section Subsections Elevation 1050 **ft.**
48 16 W 17 **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
110 **ft.**	106.5 **ft.**	04/28/1989

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Monitor well

Well Address
WRENSHALL REFINERY
WRENSHALL MN

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 2 **ft.**

Casing Diameter	Weight	Hole Diameter
8 in. to 40 ft.	lbs./ft.	15 in. to 40 ft.
4 in. to 89 ft.	lbs./ft.	8 in. to 107 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	12	17.5	89 ft. and 106.5 ft.

Geological Material	Color	Hardness	From	To
TOP SOIL	DK. BRN	SOFT	0	1
SANDY CLAY	BROWN	MEDIUM	1	8
CLAY	BROWN	MEDIUM	8	12
SANDY CLAY	GRY/BRN	MEDIUM	12	17
CLAY	GRAY	MEDIUM	17	38
BOULDER	BROWN	MEDIUM	38	40
CLAY	BROWN	MEDIUM	40	45
SAND (SILTY)	BROWN	MEDIUM	45	60
CLAY (SANDY)	BROWN	MEDIUM	60	63
SAND (FIRM)	BROWN	MEDIUM	63	80
SAND-FINE W/ CLAY LENSES	BROWN	MEDIUM	80	85
SAND	BROWN	SOFT	85	92
SAND FINE-SILTY	BROWN	SOFT	92	100
SAND-FINE W/ CLAY LENSES	BROWN	SOFT	100	105
SAND FINE	BROWN	SOFT	105	109
SANDY CLAY	BROWN	MEDIUM	109	110

Static Water Level
96 ft. from Land surface Date Measured 04/28/1989

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
3 STEEL GAURD POSTS SET IN 2' OF CONCRETE. STEEL LOCKING COVER OVER 8" SURFACE

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Neat Cement from to 80 ft. 0.8 yrds.

Located Carlton Cty. Soil & Water Cons. Dist. **Method** GPS Differentially Corrected
Unique Number Verification N/A **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 546746 **Y:** 5164301

Nearest Known Source of Contamination
0 feet direction Volatile organic compounds type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 04/27/1989
Manufacturer's name GRUNDFOS S.S. & TEFLON Model number 2-SP10
HP 0.5 Volts 230
Length of drop Pipe 105 ft. Capacity 10 g.p.m Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
North Star Drilling 49588 DAVIDSON, Z.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Clay & sand-brown
Aquifer
Depth to Bedrock ft.

County Well Index Online Report **501972** Printed 6/29/2008 HE-01205-07

Minnesota Unique Well No.
470694

County Carlton
Quad Cloquet
Quad ID 224B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 10/01/1992
Update Date 11/15/2007
Received Date

Well Name CONOCO INC.
Township Range Dir Section Subsections Elevation 1051 **ft.**
48 16 W 17 **Elevation Method** Calc from DEM (USGS 7.5 min or equiv.)

Well Depth	Depth Completed	Date Well Completed
115 **ft.**	112 **ft.**	09/12/1990

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Monitor well

Casing Type Steel (black or low carbon) **Joint** Welded **Drive Shoe?** ☐ Yes ☑ No **Above/Below** 1.9 **ft.**

Casing Diameter	Weight	Hole Diameter
8 in. to 37.5 ft.	lbs./ft.	14 in. to 37.5 ft.
4 in. to 92.3 ft.	lbs./ft.	7.88 in. to 112 ft.

Open Hole from ft. to ft.

Screen YES **Make** JOHNSON **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	10	20	92 ft. and 112 ft.

Well Address
WRENSHALL REFINERY
MN

Geological Material	Color	Hardness	From	To
CLAY			0	6
SAND			6	7
CLAY SAND STREAKS			7	14
CLAY			14	36
SOFT SAND CLAY			36	38
CLAY			38	43
SAND			43	72
SOFT SANDY CLAY			72	80
SAND			80	115

Static Water Level
97 ft. from Land surface Date Measured 09/17/1990

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Neat Cement from to 88 ft.

Located Carlton Cty. Soil & Water Cons. Dist. **Method** GPS Differentially Corrected
Unique Number Verification N/A **Date** N/A
System *UTM - Nad83, Zone15, Meters* **X:** 546670 **Y:** 5164335

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed 09/20/1990
Manufacturer's name GRUNDFOS Model number 1687
HP 0.75 Volts 230
Length of drop Pipe 111.3 ft. Capacity 12 g.p.m
Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)?
☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
North Star Drilling 49588 BACKOWSKI, M.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand
Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **470694** | Printed 6/29/2008 IIE-01205-07

Minnesota Unique Well No.
518275

County Carlton
Quad Wrenshall
Quad ID 224C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 03/12/1993
Update Date 06/05/2006
Received Date

Well Name GROVER, BRUCE D.
Township Range Dir Section Subsections Elevation 1058 **ft.**
48 16 W 20 DDBCBD **Elevation Method** 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
90 **ft.**	90 **ft.**	01/20/1993

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☐ Yes ☐ No
From Ft. to Ft.

Use Domestic

Casing Type Steel (black or low carbon) **Joint** Threaded **Drive Shoe?** ☑ Yes ☐ No **Above/Below ft.**

Casing Diameter	Weight	Hole Diameter
5 in. to 86 ft.	15 lbs./ft.	

Well Address
599 ALLEN DR
WRENSHILL MN 55797

Open Hole from ft. to ft.

Screen YES **Make** COOK **Type** stainless steel

Diameter	Slot/Gauze	Length	Set Between
3	10	4	86 ft. and 90 ft.

Geological Material	Color	Hardness	From	To
SANDY CLAY	BROWN	SOFT	0	8
CLAY	BROWN	SOFT	8	24
SAND	BROWN	SOFT	24	38
CLAY	GRAY	SOFT	38	80
SAND FINE	BROWN	SOFT	80	90

Static Water Level
64 ft. from Land surface Date Measured 12/04/1992

PUMPING LEVEL (below land surface)
75 ft. after 2 hrs. pumping 10 g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model 8PL5V
☐ Casing Protection ☑ 12 in. above grade
☐ At-grade (Environmental Wells and Borings ONLY)

REMARKS
3 BAGS BENTONITE AROUND CASING WHILE DRILLING.

Grouting Information Well Grouted? ☑ Yes ☐ No
Grout Material: Bentonite from to ft. 3 bags

Located Carlton Cty. Soil & Water Cons. Dist.
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification N/A
Date 04/26/2005
System *UTM - Nad83, Zone15, Meters* **X:** 546696 **Y:** 5163358

Nearest Known Source of Contamination
90 feet N direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☐ Not Installed Date Installed 01/05/1993
Manufacturer's name AERMOTOR Model number SD12-50
HP 0.5 Volts 230
Length of drop Pipe 75 ft. Capacity 10 g.p.m Type Submersible Material

Abandoned Wells Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

Variance Was a variance granted from the MDH for this well? ☐ Yes ☐ No

Well Contractor Certification
Klavu Well Drilling 09650 KLAVU, E.
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat Sand-brown
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | **518275** | Printed 6/29/2008 HE-01205-07

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