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

DELTA PROJECT NO. 19382-DEL0

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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 additional survey activities into the use of firefighting foams containing perflourocarbons (PFCs) in the State of Minnesota. The additional survey activities were based on the conclusions and recommendations presented in Delta's *Perfluorocarbon (PFC)-Containing Firefighting Foams and Their Use In Firefighting Training in Minnesota* report dated June 30, 2008 (the June 30th Report).

The goal of the survey activities is to identify sites in Minnesota where certain types of PFCs of particular environmental concern at this time, perfluorooctane sulfonate (PFOS), perfluorooctanoic acid (PFOA), perflourobutanoic acid (PFBA), and others, may be present in the environment due to the repeated use of firefighting foams at firefighting training locations. The June 30th Report concluded that surfactants used in Class B firefighting foams are manufactured with PFCs. Firefighting foams formerly manufactured by 3M were made using a proprietary process and are known to contain or break down to PFOS and PFOA. The surfactants in Class B firefighting foams manufactured by companies other than 3M were made using a telomerization process and cannot break down to PFOS, but may break down to PFOA and other PFC compounds. Class A foams and training foams are not made with PFC-based surfactants and are therefore not a source of PFCs in the environment.

1.2 Scope of Work

The following scope of work was conducted under Master Contract Number B15536 and Contract Work Order Number SFDE0911.

Task 1 – Obtain Additional Information and Update Report Tables

Delta obtained additional information from Minnesota municipal fire departments, fire training schools, and manufacturers of fire-fighting foams as described below.

- Updated the following tables of the June 30th Report with information from survey questionnaires returned to Delta after June 13, 2008:
    - Table 2, *All Municipal Fire Department Questionnaire Responses*
    - Table 3, *Municipal Fire Departments 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*

- Followed up via telephone and other means with the municipal fire departments that responded to the survey that they train or potentially train with Class B aqueous film-forming foam (AFFF) but 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 were mapped and ranked.
- Followed up via telephone and other means with the municipal fire departments that reported using foam in training but did not specify what type of foam was used in training. With additional information from the departments the sites were more accurately ranked.
- Identified all fire stations and fire foam training areas that are located in a Source Water Assessment Area (SWAA), as defined by the Minnesota Department of Health (MDH). A geographical information system (GIS) map of SWAAs and a list of municipal fire departments located within a SWAA were provided by the MDH. Delta combined the SWAA layer and a GIS layer provided earlier by the MPCA that depicts all fire station locations in the State in order to obtain this information. Delta added the fire training area locations where Class B foams are used in training to the map.
- Re-ranked fire training locations where Class B foams are used to include their proximity to SWAA as a criterion.
- Followed up via telephone and other means with the municipal fire departments that did not respond to the survey and that have fire stations located in their community's Wellhead Protection Area (WPA) or are located in a SWAA. These additional training sites were then mapped and ranked, as warranted.
- Followed up with the fire training schools that did not respond to the survey before June 13, 2008, which was the cut-off date for inclusion in the previously-referenced June 30th Report.
- Followed up with the manufacturers of firefighting foams that did not respond to the survey regarding the use of PFCs in their foams. Delta again attempted to obtain information regarding what types of PFCs are used in their foam products.
- Update Tables 1 through 6 of the June 30th Report with the additional information obtained from the municipal fire departments, the fire training schools, and the foam manufacturers. The tables were updated so that no merged cells were included in the tables for easier electronic sorting per the request of the MPCA.
- Updated existing training site profiles (Appendix G of the June 30th Report) or created profiles for newly identified training sites based on the additional information obtained from the fire departments and training schools.

Task 2 – GIS Layer

Delta mapped the ranked training sites where Class B firefighting foams are used repeatedly in training exercises, as identified in Table 4, *Municipal Fire Departments That Train With Class B Foams*, in order to obtain the UTM coordinates for each training site. Delta created a GIS layer that geo-locates each of the fire training sites ranked in Table 4. The layer attributes include the fire foam use information for each training site, including the types and amounts of foam used in training and the frequency of foam training. As described in Task 1, a map layer depicting SWAAs provided by the MDH was incorporated into Delta's GIS layer.

Task 3 – Report

Delta compiled the information gathered in Tasks 1 and 2 into this report. The updated Tables 1 through 6 and any new training site summaries are included with this report, as well as an electronic version of the GIS layer.

1.3 Limitations

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

- Delta obtained, reviewed, and evaluated information 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 ADDITIONAL SURVEY OF MUNICIPAL FIRE DEPARTMENTS

At the time of the June 30th Report, Delta had received a total of 433 completed firefighting foam use questionnaires from the 785 municipal fire departments that were surveyed, a response rate of 55%. However, 8 of these questionnaires were unsigned and there was no way to determine the department of origin. Since June 13, 2008, Delta received additional questionnaires in the mail, contacted responding municipal fire departments for clarification on survey information, and contacted non-responding departments located in SWAAs and WPAs. As of October 13, 2008, an additional 34 questionnaires were received via mail from municipal fire departments, and an additional 62 questionnaires were completed via telephone with municipal fire departments. Copies of these additional completed questionnaires are included in **Appendix A**. Thus, a total of 522 of 785 municipal fire departments, or 66%, have completed and returned questionnaires regarding their use of firefighting foams. Details regarding municipal department surveys received after June 13, 2008, are presented in Sections 2.1, 2.4, and 2.5.

Forty-six of the questionnaires received via mail from municipal fire departments contained incomplete information regarding training locations, foam brands, and/or types of foam used in training exercises. Delta successfully contacted 33 of these 46 departments to obtain missing information. Additional information received from these departments are described in Sections 2.2, 2.3.

2.1 Questionnaires Received Via Mail Post-June 30th Report

Completed questionnaires were received from the below-listed municipal fire departments after June 13, 2008, when the June 30th Report was finalized. The sites were added to Table 2 or Table 3, and Tables 4 and 6, if applicable.

- Alborn
- Annandale
- Blackduck
- Brooklyn Center
- Callaway
- Cannon Falls
- Clontarf
- Dawson
- Duluth
- Gilbert
- Granada
- Harris
- Heron Lake
- Hidden Valley
- Kilkenny
- Lafayette
- Lewisville
- McDavitt
- Mendota Heights
- Mentas
- Milaca
- Normanna
- North Star Township
- Ogilvie
- Perham
- Renville
- Spring Valley
- Stephen
- Sturgeon Lake
- Victoria
- Willow River
- Wilmont
- Winnebago
- Wolverton

2.2 Questionnaires Lacking Training Site Locations

Thirty municipal fire departments initially responded to the questionnaire that they train or potentially train with Class B AFFF, but did not provide training site information such that the training sites could be mapped.

Of these thirty municipal fire departments, the following departments train with foam at various locations; there is not one training location where foam is used repeatedly, thus there is not one training site to map or rank.

- Big Lake
- Brooten
- Browns Valley
- Byron
- Canby
- Centennial
- Cohasset
- Comfrey
- Darfur
- Dover
- Edina
- Fountain
- Hastings
- Holland
- Lake Elmo
- Madelia
- Mahtomedi
- Mazeppa
- Nerstrand
- Olivia
- Ramsey
- Randolph-Hampton
- Robbinsdale
- Vergas

The remaining six departments were contacted to determine specific training location information:

- *Crosslake*: Contact with the City of Crosslake engineering department determined the exact location of the training site, and the training site was mapped and ranked.
- *Lonsdale*: The fire chief indicated that, in his 14 years on the department, he does not recall using foam for training. Table 2 was changed to reflect that the Lonsdale Fire Department does not train with foam.
- *New York Mills*: The fire chief provided the location of the site where the department trains with foam, and the training site was mapped and ranked.
- *Proctor*: The Proctor Fire Department did not respond to Delta's inquiries at the time of this report.
- *Sartell-LeSauk*: The fire chief indicated that the department trains with Dawn dish soap, and that they haven't trained with firefighting foam in years. He related that past foam training would likely have taken place at the fire station. The fire station was mapped and ranked as the training site for Sartell-LeSauk.

- *St. Francis*: The St. Francis Fire Department did not respond to Delta's inquiries at the time of this report.

2.3 Questionnaires Lacking Foam Information

In Delta's June 30th Report, ten municipal fire departments reported the use of firefighting foam in training, but did not clearly identify which type of foam was used for training. These ten departments were contacted for this information with the following results:

- *Cloquet*: The fire chief indicated that the department trains about half of the time with dish soap and half with firefighting foam, both Class A and B Angus foam, but mostly Class B. The training location was verified with the fire chief, and the site was added to Table 4, mapped and ranked.
- *Dilworth*: The fire chief indicated that the department trains at the fire station with both Class A and Class B Ansul foams. The training site was added to Table 4, mapped and ranked.
- *Jeffers*: The fire department secretary indicated that the department trains with Class A Silv-ex foam. Since the department does not train with Class B foam the site was not ranked.
- *Lanesboro*: The fire chief indicated that the department trains with both Class A and Class B AquaEco foam sticks. The training site was added to Table 4, mapped and ranked.
- *Northfield*: A Northfield fire department captain indicated on their questionnaire that Class B foam is used in training upon delivery of new apparatus every five years, and that they have not trained with foam in ten to fifteen years. Since the Class B foam brand reported was 3M, and since the department has trained in the past with 3M Class B foam, the training site was added to Tables 4 and 6, mapped and ranked.
- *Randall*: The fire chief indicated that the department trains with Pyrocom Class A and B foam sticks annually. The training site was added to Table 4, mapped and ranked.
- *Rosemount*: The fire chief indicated that the department just switched to HCT F-500 A-B foam sticks, but hasn't yet used them in training. The department previously trained with Class B AFFF and training foam. The fire chief also related that the department received old stock of Class B AFFF from the Flint Hills oil refinery and did some training with that foam; he is not sure what brand foam they received from the refinery. In 25 years on the department, the fire chief indicated that they may have used 3M foam at one time or another. The training site was added to Tables 4 and 6, mapped and ranked.
- *Stillwater*: The use of Class A foam for training was incorrectly noted as "no" in report Table 2. The Stillwater department indicated on their questionnaire that they use Class A foam only for training. Since the department does not train with Class B foam, the site was not ranked.
- *Watertown*: The fire chief indicated that the department trains at live burns in various locations with Class A foam. Since the department does not train with Class B foam the site was not ranked.
- *Willmar*: The use of Class A foam was not reflected in Table 2 of the report due to a table formatting error. The Willmar department reported on their questionnaire that they use Class A foam for training. Since the department does not train with Class B foam the site was not ranked.

Several municipal fire departments did not complete, or partially completed, Question 8 of the questionnaire regarding the types, brands and quantities of foam used by the departments. For the June 30th Report, it was assumed that these departments used Class B AFFF manufactured by 3M. The following departments were contacted for clarification of the types and brands of foam used by the

departments various information on their surveys. Tables 2, 4 and 6 were updated accordingly, as applicable.

- *Blackduck:* The fire chief indicated that the department uses Class A foam at various places occasionally for training. He also indicated that the department trained one time with Class B alcohol-resistant AFFF (AR-AFFF) with staff from the technical college in Thief River Falls. Since the department has trained only once with Class B foam, the site was not ranked.
- *Breckenridge*: The fire chief indicated that the department uses Chemguard foams. The site was removed from Table 6.
- *Brooklyn Center*: The department did not respond to Delta's inquiries at the time of this report. For the purpose of this report, the use of Class B AFFF made by 3M for training is assumed.
- *Brooten*: The fire chief indicated that the department uses Angus Class A foam and has not used Class B foam. The department just obtained Class A/B foam sticks but hasn't used them yet. The site was removed from Tables 4 and 6.
- *Browns Valley*: The fire chief related that they use Class B AFFF for fire response, but train with training foam. The site was removed from Tables 4 and 6.
- *Buyck*: The fire chief indicated that the department has Class A foam on hand, but hasn't used any in the last four years. The site was removed from Tables 4 and 6.
- *Crosslake*: As indicated in Section 2.2, while the training location was verified with the Crosslake engineering department, Delta was unable to reach the Crosslake fire department to determine which brand of AR-AFFF is used by the department. For the purpose of this report it is assumed that the department uses 3M-brand AR-AFFF.
- *Fairmont*: The fire chief provided information on four types of foams used by the department. Foam information was updated on Tables 2, 4 and 6.
- *Hardwick:* The fire chief indicated that the department carries AR-AFFF and Class A foams, but has only used foam three times in the last seven years. The fire chief also related they do not train annually, but have trained only one time with new equipment. The site was removed from Tables 4 and 6.
- *Holland:* The fire chief indicated that the department uses Class A foam only. The site was removed from Table 4.
- *Hopkins:* The fire chief indicated that the department utilizes Class B AFFF made by 3M, but that Class B foam is not used for training. The fire chief also clarified that the department trains with Class A foam and training foam at various locations; it was incorrectly noted on the questionnaire that they train at the Hopkins fire hall at 101 17th Avenue South. Further research has found that HCT F-500 A-B fire suppression agent used by the Hopkins Fire Department does not contain PFCs (see Section 4). The site was removed from Table 4.
- *Lismore:* The fire chief indicated that the department uses Class A foam only. The site was removed from Tables 4 and 6.
- *Littlefork*: The department did not respond to Delta's inquiries at the time of this report. For the purpose of this report, the use of Class B AFFF made by 3M for training is assumed.
- *Maynard*: The department did not respond to Delta's inquiries at the time of this report. For the purpose of this report, the historical use of Chemguard "other" foam is assumed to be Class B foam.
- *Menahga:* The fire chief indicated that the department uses Class A foam only. The site was removed from Table 4.

- *Myrtle*: The department did not respond to Delta's inquiries at the time of this report. For the purpose of this report, the use of Class B AFFF made by 3M for training is assumed and the site remains on Tables 4 and 6.
- *Newfolden*: The department did not respond to Delta's inquiries at the time of this report. For the purpose of this report, the use of Oxford 229 wetting agent for training is assumed, and it is assumed that this product contains or was made with PFC-based surfactant. This site remains on Table 4.
- *New Richland:* The fire chief indicated that the "other" Chemguard foam listed on their questionnaire is a Class A foam; the department does not use Class B foam. The site was removed from Table 4.
- *New York Mills:* The fire chief indicated that the department uses Ansul Class B AFFF for training and, as noted in Section 2.2, verified their training location. The training site was added to Table 4 and was mapped and ranked.
- *Northland:* The fire chief related that the department uses Class A foam only. The site was removed from Tables 4 and 6.
- *Paynesville:* The department did not respond to Delta's inquiries at the time of this report. For the purpose of this report, it is assumed that the department trains with Chemguard Class B AR-AFFF and the site remains on Table 4.
- *Pine River:* The department did not respond to Delta's inquiries at the time of this report. For the purpose of this report, it is assumed that the department trains with Ansulite Class B AR-AFFF and the site remains on Table 4.
- *Proctor:* The department did not respond to Delta's inquiries at the time of this report. For the purpose of this report, it is assumed that the department trains with Jet-X AFFF and the site was added to Table 4. However, the training location was not included on the survey so the site was not mapped or ranked.
- *Ramsey:* The fire chief indicated that the department trains with Class A foam at various locations. The site was removed from Table 4.
- *Sartell-LeSauk:* The fire chief indicated that the department currently trains with Dawn dish soap, and that they haven't trained with Class B foams in years. He indicated that the department has always used Angus foams, and that any training with Class B foams in the past would have been done across the street from the fire hall. The site was added to Table 4, and was mapped and ranked.
- *St. Clair:* The department did not respond to Delta's inquiries at the time of this report. For the purpose of this report, the use of Class B AFFF made by 3M for training is assumed and the site remains on Tables 4 and 6.
- *Tyler:* The department did not respond to Delta's inquiries at the time of this report. For the purpose of this report, it is assumed that the department trains with Angus Class B AR-AFFF and the site remains on Table 4.
- *Upsala:* The fire chief indicated that the Class A-B Hi-Expansion foam currently used by the department is a Royal Chemical Company brand. He does not believe that the department historically used 3M-brand foams. The site was re-ranked and removed from Table 6.
- *Waseca:* The department did not respond to Delta's inquiries at the time of this report. For the purpose of this report, it is assumed that the department trains with Class B protein foam. (3M indicated that they did not manufacture a protein foam.) The site remains on Table 4.

2.4 Follow-Up With Municipal Fire Departments Located in WPAs

Thirty municipal fire departments located in WPAs did not return a questionnaire in time for the June 30th Report. The below-listed departments were successfully contacted and completed questionnaires were obtained. These sites were added to Table 2, and Tables 4 and 5 if applicable.

- Alexandria
- Brooklyn Park
- Caledonia
- Coleraine
- Detroit Lakes
- Farmington
- Goodview
- Jordan
- Lakeville
- LeRoy
- Litchfield
- Luverne
- Medford
- Monticello
- Osakis
- Owatonna
- Plymouth
- Richfield
- Richmond
- Rogers
- Shakopee
- St. Hilaire
- Winthrop
- Woodbury

Attempts were made to contact the following departments located in WPAs, however, the departments did not respond to Delta's inquiries at the time of this report:

- Cyrus
- Frazee
- Fulda
- Nielsville
- Red Lake Falls
- Rice

2.5 Follow-Up With Municipal Fire Departments Located in SWAAs

The MPCA provided a list of 157 municipal fire departments located in SWAAs, which was sorted by city and is included as Table 7. At the time of this report, 124 of the departments completed and returned a questionnaire to Delta, while 31 of the departments did not respond to Delta's inquiries for information. The City Clerk in Revere, Minnesota indicated that the Revere Fire Department had been dissolved and that the city is now covered by the Lamberton Fire Department. The city of Norwood Young America is listed as two separate cities (Norwood and Young America) on the fire department list, but they are one city, served by the Norwood Young America fire department. The departments that did not complete the questionnaire are identified on Table 7 and are listed below. Tables 4 and 5 were updated to identify sites located in SWAAs.

- Audobon
- Badger
- Bigfork
- Bricelyn
- Butterfield
- Climax
- Clinton
- Currie
- Delano
- Dodge Center
- Ellendale
- Elmore
- Franklin
- Frost
- Glencoe
- Gonvick
- Lake Crystal
- Navarre
- Madison
- Mapleview
- Mountain Lake
- Murdock
- Pemberton
- Plummer
- Slayton
- Storden
- Vernon Center
- Walnut Grove
- Waubun
- Wendell
- Winger

3.0 ADDITIONAL SURVEY OF FIREFIGHTING TRAINING SCHOOLS

As of the June 30th Report, Delta had received survey questionnaires back from 11 of the 16 firefighting training schools located in Minnesota. Delta contacted the following remaining five schools, and their survey information was added to Table 5:

- St. Cloud Technical College;
- Hennepin Technical College in Eden Prairie;
- Central Lakes College in Brainerd;
- Minnesota State Community College in Moorhead; and,
- Northland Community College in East Grand Forks.

Of these five schools, only the Northland Community College in East Grand Forks uses Class B foam for training exercises repeatedly at one location.

Of the 16 firefighting training schools in Minnesota, ten train off-site at various locations with students and municipal fire departments in the region.

4.0 ADDITIONAL SURVEY OF FIREFIGHTING FOAM MANUFACTURERS

Delta attempted to contact via telephone and email the following major manufacturers of firefighting foams for more information regarding the PFC content of their foams:

- Foam Ready, maker of the Pyrocom Aqua Stiks;
- Tyco, the parent company of Ansul;
- Chemguard;
- Kidde Fire Fighting, the parent company of Angus, Kidde and National foam manufacturers;
- U.S. Foam Technologies; and,
- Hazard Control Technologies (HCT).

At the time of this report, only HCT responded to Delta's inquiries. Ms. Sharon Greiner in the HCT Support Services Division indicated via telephone and email on October 20, 2008, that the HCT F-500 A-B fire suppression agent is not a foam and is not made with nor contains PFCs. Information from firefighting foam manufactures is summarized in Table 1, *U.S. Manufacturers of Firefighting Foams*.

4.1 Department Ranking Changes Due to HCT F-500 Information

For Delta's June 30th Report it was assumed that HCT F-500 A-B was a PFC-containing foam. With new information that HCT F-500 A-B does not contain PFCs, the following changes were made to Table 4:

- The table title was footnoted to reflect that HCT F-500 A-B is excluded as a Class B foam.
- The Hibbing Fire Department was removed from Table 4 since the only Class B foam they use is HCT F-500 A-B. The Hibbing Fire Department was also removed from the ranked sites.
- The Hopkins Fire Department was previously included on Table 4 for their use of HCT F-500 A-B foam. Delta contacted the Hopkins Fire Department to clarify their use of training foams. The Hopkins Fire Chief indicated that the department utilizes Class B AFFF made by 3M, but that Class B foam is not used for training. The fire chief also clarified that the department trains with Class A foam and training foam at various locations; it was incorrectly noted on the questionnaire that they train at the Hopkins fire hall at 101 17th Avenue South. The Hopkins Fire Department was removed from Table 4 and the ranked sites.
- The Edina Fire Department was removed from Table 4 since the only foam they use is HCT F-500 A-B. Edina doesn't utilize just one set training site, so the department was not ranked.

5.0 GIS MAPPING OF FOAM TRAINING SITES

Delta generated a geographical information system (GIS) layer of the ranked training sites where Class B firefighting foams are used repeatedly in training exercises, as identified in Table 4. The layer was constructed using coordinates provided for each station's location during the survey process. The coordinates were then incorporated into a data table utilizing information compiled in Table 4 and the site summaries. The updated site summaries are discussed further in Section 6.0.

The data attribute table that is integrated with the GIS layer includes fire foam use information for each training site, including the types and amounts of foam used in training, the frequency of foam training and the site risk ranking and criteria.

The GIS layer is attached as **Appendix B** as an electronic file on a compact disc.

6.0 TRAINING SITE RANKING RESULTS

As detailed in the June 30th Report, the training sites where Class B firefighting foam is used in training exercises 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 following criteria:

- Brand of foam used in training
- Annual foam usage for training
- Proximity of nearby surface waters

- Proximity of nearby wetlands
- Proximity to karst areas
- Proximity to nearby water wells
- Proximity to WPAs

Another consideration was added to the ranking criteria: the proximity of the training site to SWAAs. The proximity to SWAAs and WPAs were combined, so that sites located with a WPA or SWAA were assigned a score of 5, sites located within 1/4-mile of a WPA or SWAA were assigned a score of 4, and sites located between 1/4-mile and 1 mile of a WPA or SWAA were assigned a score of 2. This additional criterion changed the ranking score of the following fire departments since the June 30th report:

- Buffalo Lake: total score changed from 13 to 15.
- Cass Lake: total score from 9 to 13.
- Claremont: total score from 18 to 23.
- Dunnell-Lake Fremont: total score from 5 to 9.
- Hamburg: total score from 13 to 15.
- Harmony: total score from 14 to 19.
- Linwood Township: total score from 21 to 23.
- Littlefork: total score from 19 to 23.
- Mankato: total score from 19 to 21.
- Maynard: total score from 7 to 12.
- Myrtle: total score from 17 to 22.
- Newfolden: total score from 7 to 12.
- Pierz: total score from 17 to 22.
- Silver Lake: total score from 11 to 15.
- Waldorf: total score from 11 to 16.
- Waseca: total score from 9 to 13.
- Welcome: total score from 9 to 14.

Delta assigned a relative numerical score for each criterion 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.

6.1 Site Profiles

Site profiles were prepared for ranked fire departments and schools that use Class B firefighting foam in training exercises. The site profiles include the following:

- site summary sheet;

- topographic map showing the site location, Wellhead Protection Areas (where present) and nearby well locations obtained from the MDH's on-line County Well Index (CWI) program;
- well records for nearby wells obtained from the MDH's CWI program;
- wetland map obtained from the U.S. Fish & Wildlife Service's on-line National Wetlands Inventory; and,
- MPCA *What's In My Neighborhood* map showing nearby release sites.

Site profiles for the fire departments and schools listed in the table below were included in the June 30th Report. The site summaries for these fire departments and schools were updated to include the GIS coordinates and the sites proximity to a SWAA. Copies of these updated site summaries are included in **Appendix C**. Site profiles for municipal fire departments and schools that responded after the June 30th Report are discussed in Sections 6.2 and 6.3.

- Albert Lea
- Apple Valley
- Appleton
- Babbitt[1]
- Bemidji
- Blackhoof
- Breckenridge
- Buffalo Lake
- Burnsville
- Buyck[1]
- Cass Lake
- Claremont
- Cottage Grove
- Dunnell-Lake Fremont
- Ellsburg
- Evansville
- Fairmont
- Fridley
- Glenville
- Golden Valley
- Hamburg
- Hardwick[1]
- Harmony
- Hibbing[1]
- Hopkins[1]
- Hoyt Lakes
- Hugo
- Hutchinson
- Linwood
- Lismore[1]
- Littlefork
- Loretto
- Mankato
- Marshall
- Maynard
- Minneapolis
- Montevideo
- Myrtle
- New Richland[1]
- Newfolden[2]
- North St. Paul
- Northland[1]
- 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[1]
- Duluth Airport
- MSP Airport
- Rochester Airport
- Flint Hills Pine Bend Refinery
- Marathon Refinery
- Former Wrenshall Refinery
- Lake Superior College, Duluth
- South Central College, North Mankato

(1) Updated information indicates these departments do not use Class B PFC-containing foam in training exercises, therefore, these sites were removed from Table 4 and are no longer ranked.

(2) New training site location information was received and the other components of the site profile were also updated. The updated CWI topographic maps, wetland maps, and MPCA *What's In My Neighborhood* maps are included in **Appendix C** along with the updated site summary.

6.2 Ranked Municipal Fire Departments

Training sites associated with 80 municipal fire departments are currently ranked due to their repeated use of Class B foam in training exercises at one training location. Some of the departments reported more than one repeatedly-used training site, and each of those sites were ranked separately. Since the June 30th Report, nine municipal departments (Babbitt, Buyck, Hardwick, Hibbing, Hopkins, Lismore, New Richland, Northland, and Winsted) were removed from the rankings because it was determined that they do not train with Class B foam. Since the June 30th Report, the following municipal fire departments were ranked and added to Table 4:

- Alborn
- Alexandria
- Brooklyn Center
- Cannon Falls
- Clearbrook
- Cloquet
- Crosslake
- Dilworth
- Elysian
- Goodview
- Kenyon
- Lake Johanna
- Lanesboro
- Luverne
- Mapleton
- New York Mills
- Northfield
- Norwood-Young America
- Perham
- Plymouth
- Randall
- Richfield
- Richmond
- Rosemount
- Sartell-LeSauk
- Wolverton

Site profiles for these additional ranked municipal fire departments are included in **Appendix D**.

6.3 Ranked Training Schools

Since the June 30th Report, one additional training school, the Northland Community College in East Grand Forks, was ranked due to their repeated use of Class B foams on school grounds. A total of three schools report training with Class B foams at their college campuses, also including the Lake Superior College in Duluth and the South Central College in North Mankato. The site profile for the Northland Community College in East Grand Forks is included in **Appendix E**.

7.0 CONCLUSIONS

7.1 SURVEY RESPONSES

At the time of this report, a total of 522 of 785 municipal fire departments have responded to the Firefighting Foam Use Questionnaire, excluding the eight unsigned questionnaires. Survey of municipal fire departments across the State found that:

- Fifty-two (or 10%) of the responding municipal fire departments do not use firefighting foam at all.
- Of the responding municipal fire departments that utilize firefighting foam, 243 (or 52%) use only Class A foams, with no use of Class B foams.
- Of the remaining 227 responding municipal fire departments that utilize Class B firefighting foams, approximately 50% do not train with Class B foam but use Class B foam for fire response.
- Of the municipal fire departments that train with Class B foam, 28% of the departments train at multiple or different locations for every training session, or at live burns only. Thus there is not one repeatedly-used training location to rank.

- The remaining 79 municipal fire departments that train with Class B foam at select locations were ranked. Twenty-eight of these departments use, presumably use, or have used 3M-brand foam for training.
- Only 3 of the 16 firefighting training schools in the State train on campus with Class B foam. Some schools go out into the community to teach foam firefighting to local departments at their stations, some train on campus only with Class A foam, and one school does not train with foam.

7.2 HIGHEST RISK TRAINING SITES FOR PFC RELEASE

For the purpose of this report, Class B firefighting foam training sites located in environmentally sensitive areas such as SWAAs, WPAs and karst areas are presumed to be the sites with the highest potential for PFC impacts to soils, groundwater and surface waters. In addition, since foams manufactured by 3M are the only Class B foams with the potential to break down to PFOS, the higher risk sites where the Class B foam used for training was manufactured by 3M are highlighted in this discussion.

The following sites are presumed to be the sites with the highest potential for PFC impacts to soils, groundwater and surface water, based on training site location and the amount and type of foam used in training:

- *Minneapolis/St. Paul International Airport*: Located in a WPA and an active karst area, with up to 40 gallons of foam used annually for training. The airport fire department used Class B foam manufactured by 3M through approximately 2000.
- *Marathon Refinery, St. Paul Park:* Located in an active karst area near the Mississippi River, with approximately 250 gallons of foam used annually for training. The Marathon Refinery used 3M Class B foams through approximately 2000.
- *Flint Hills Pine Bend Refinery, Rosemount:* Located in a transition karst area, with approximately 300 gallons of foam used annually for training. Foams manufactured by 3M were historically used in training.
- *Duluth International Airport:* The former training location at the Duluth International Airport is under an active site investigation for PFCs under direction of Ms. Jane Mosel, MPCA. While 3M-brand foam still used in fire response, the Minnesota Air National Guard no longer trains at the airport with foam.
- *South Central College, North Mankato:* Located in a SWAA and a covered karst area, with approximately 60 gallons of various brands of foam used annually for training.
- *Kenyon Fire Department:* Located in a SWAA and an active karst area, with current use of 3M-brand foam for bi-annual training.
- *Pierz Fire Department:* Located in a SWAA and less than 1/8 mile west of the Skunk River, with current use of 3M-brand foam for bi-annual training.
- *Claremont Fire Department:* Located in a SWAA and a transition karst area, with current use of 3M-brand foam for annual training.
- *Cottage Grove Fire Department:* Located in or adjacent to a WPA and an active karst area, with use of 3M foam in training.
- *Alexandria Fire Department:* The training location at the Magellan tank farm is located in a SWAA and a WPA, with presumed use of 3M-brand foam. The Alexandria Fire Chief was unsure as to the brand of foams used in training.

- *Myrtle Fire Department:* Located in a SWAA and an active karst area, with presumed use of 3M foam for training.
- *Harmony Fire Department:* Located in a SWAA and an active karst area.
- *Bemidji Fire Department:* The airport training location is in a WPA with surface waters and wetlands adjacent to the airport, with current use of 3M foam for annual training.
- *Fridley Fire Department:* Located in a WPA and a transition or covered karst area, historic use of 3M foam used in training.
- *Brooklyn Center Fire Department:* Both training sites are located in WPAs and either transition or covered karst areas, with presumed use of 3M foam in their quarterly training.
- *Burnsville Fire Department:* Located in a WPA and apparently located in an active karst area.
- *Goodview Fire Department:* Located in a WPA and an active karst area, with the Mississippi River located approximately 1/4 mile away.
- *North St. Paul Fire Department:* Located in a WPA and covered karst area, with use of 3M foam used in semi-annual training.
- *Preston Fire Department:* The fairgrounds training site is located in an active karst area and within 1/4-mile of a WPA, with the South Branch of the Root River bending around the north side of the fairgrounds, and with current of use 3M foam.
- *Richfield Fire Department:* Located in a WPA and covered karst area with adjacent surface water, and with historical use of 3M foam in bi-annual training.
- *Rochester Fire Department:* Located in a WPA and active karst area, with use of 3M foam in annual training.

7.3 FIREFIGHTING FOAM MANUFACTURER RESPONSE

The firefighting foam manufacturers are either reluctant to share information, or do not have detailed data, regarding the PFC content of their firefighting foams. General literature presented in the June 30th Report indicates that Class B firefighting foams contain PFC-based surfactants. While additional details regarding the types, percentages and breakdown products of PFCs could be used to evaluate the relative potential for various brands of foam to release select PFCs to the environment, this data is not readily available. For the purpose of ranking sites and recommending further investigation, it is assumed that all Class B foams have similar potential to release PFCs to the environment, with the exception of foams made by 3M. As presented in the June 30th Report and as stated in Section 1.1, firefighting foams formerly manufactured by 3M have been shown to contain or break down to PFOS and PFOA.

8.0 RECOMMENDATIONS

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

1. Contact Ms. Jane Mosel of the MPCA regarding their investigation of PFC impacts at the Duluth International Airport. Obtain information regarding their investigation and sampling procedures, and findings.

2. Further investigation of some or all of the presumed high-risk firefighting foam training sites identified in Section 7.2. Further investigation of these sites may include, but may not be limited to, the following activities:
    - Sample public water systems in the associated WPA or SWAA.
    - Schedule an appointment with the fire departments to conduct site visits to observe the training site and surrounding area for site topography and drainage, surficial karst features, nearby surface waters and wetlands, and other potential receptors of PFCs in the environment. Observe the training site for potential soil, groundwater and/or surface water sample locations.
    - Obtain property access for the collection of soil, groundwater and/or surface water samples from the training sites.
    - Obtain soil, groundwater and/or surface water samples for laboratory analysis of PFOS, PFOA, and any other PFCs of concern to the MPCA.
3. Analyze and compare sample results with respect to the types, brands and estimated amounts of foam discharged at the training sites and the types of analytes detected and the analyte concentrations.
4. Analyze and compare sample results with historic PFC sampling conducted by the State.
5. Create GIS layers of analytical results to graphically display PFC concentrations in soil, groundwater and/or surface water with respect to SWAAs, WPAs and other ecological receptors. The GIS map layers could be used to identify analyte concentration trends, receptors at risk, aerial coverage gaps, etc.
6. Consider identification of fire sites where significant quantities of Class B foam have been discharged in response to a large fire. Class B foam is intended for use on chemical or petroleum fires. This information may be obtained by contacting the eight fire departments or schools that report an annual usage of more than 25 gallons of Class B foam annually: the Burnsville Fire Department, the Richmond Fire Department, the Winona Fire Department, the Flint Hills Refinery in Rosemount, the Marathon Petroleum Refinery in St. Paul Park, the Minneapolis-St. Paul International Airport, the Duluth International Airport, and the Northland College in East Grand Forks. This information may also available by interviewing personnel at the State Fire Marshal's office, the Minnesota State Fire Chiefs Association, the Minnesota State Fire Department Association, the Minnesota State Volunteer Firefighters Association, and/or the municipal fire departments where major bulk storage facilities with capacities of one million gallons or more are located.

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.

Nancy Rodning
Nancy Rodning
Project Geologist

Date: October 22, 2008

Reviewed by:

John Estes
Project Manager

Date: October 22, 2008

TABLES

Table 1	U.S. Manufacturers of Firefighting Foams (No Change from June 30th Report)
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 7	Municipal Fire Departments Located Within Source Water Assessment Areas

TABLE 1
U.S. MANUFACTURERS OF FIREFIGHTING FOAMS
October 15, 2008

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-FFFP	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 Reppler President 451 N. Cannon Ave. Lansdale, PA 19446 (215)393-0241 colleen.repellier@tycofp.com www.ansul.com	Ansulite 1% Ansulite 3% Ansulite 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 Vieweger V.P., Sales & Marketing Fire Suppression Division 204 South Sixth Avenue Mansfield, TX 76063 817-473-9954 x205 www.chemguard.com	1%AFFF 3% AFFF 6% AFFF	Ultraguard 3% Ultraguard 1%-3% 3%-5% 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% Centurior 3% Centurior 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
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	--	--

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TABLE 1
U.S. MANUFACTURERS OF FIREFIGHTING FOAMS
October 15, 2008

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-FFFP	Class A-B HiEx	Class A[2]	Training Foam[2]	Other
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 800-826-6598 713-591-6488 www.micro-blaze.com	Micro-Blaze Out Plus 3%	Micro-Blaze Out Plus 3%x3%	--	--	--	--	--	Micro-Blaze Out	--	--
Hazard Control Technologies (HCT)	150 Walter Way Fayeteville, GA 30214 (770)719-5117 www.hct-world.com	--	--	--	--	--	--	--	Pinnacle Class A	--	Inferno Flame Retardant F-500 A-B foam[2]
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 HP foams. Dynax's									

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
October 15, 2008

Department	Location	Site in Source Water Assessment Area?	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: Class B AFFF	Class B AR-AFFF	Class B Protein	Class B FP	Class B FFFP	Class B AR-FFFP	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 Notes	SITE RANKING CRITERIA: Foam Type: 3M current or former use in training =8	Limited 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	WPA/SWA: site in WPA and/or SWA=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 Sticks (12) Other or unspecified foam product																																						
Ada	Ada	Y	X			N	Y				X				X				X			X	Rth Street W., in street and ditch.								2			Y			X			Y	Y	Class A foam use only, site not ranked.								
Adams	Adams	N	X			N	Y					X				X						X	Fire station on Main Street, east side of town.								2			Y		X				Y	Y	Class A foam use only, site not ranked.								
Adrian	Adrian	N	X			Y	N																Not applicable	12							2			N	X							Class A foam use only, site not ranked.								
Aitkin	Aitkin	N		X		N	Y				X				X				X			X	Fire station, 109 1st St. NW								2			Y	X					Y	Y	Class A foam use only, site not ranked.								
Alaska	Puposky	N	X			N	Y							X	X							X	Fire hall, 28987 Alaska Ln NW, Puposky								2			Y	X						Y	Class A foam use only, site not ranked.								
Albany	Albany	Y			X	Y	Y						X		X				X			X	Parking lot, 30 Forest Av								5			Y	X							Class A foam use only, site not ranked.								
Albert Lea	Albert Lea	N			X	N	Y					X				X						X	Frank Ave., near dog pound		3						2			Y N		X		X		Y Y	Y	Frank Avenue located in or near a Well Protection Area.	0	2	1	1	2	3	4	13
Albert Lea Township	Albert Lea	N	X			N	Y					X			X							X	Frank Hall Dr., Old sewage treatment plant								2			Y	X					Y		Class A foam use only, site not ranked.								
Albertville	Albertville	N	X			Y	Y				X					X			X				Fire hall, 11350 57th St NE								7			Y	X					Y	Y	Class A foam use only, site not ranked.								
Alborn	Alborn	N		X		N	Y					X			X							X	Albrook School, 7427 Seville Rd., Saginaw (demonstration); Alborn Fire Hall, 6390 Hwy. 7, Alborn (training & demonstration).	3							2			Y	X		X			Y	Y		0	2	3	3	0	3	0	11
Alexandria	Alexandria	Y	X			Y	Y					X			X				X				Various, including VoTech, Magellan tank farm, live burns.	12							12			Y	X		X			Y	Y	Site ranking based on Magellan tank farm training location. Foam brands not known by fire chief.	8[a]	2	3	1	0	3	5	22
Alpha	Alpha	N	X			N	Y						X		X							X	Main Street, Alpha								2			Y	X					Y	Y	Class A foam use only, site not ranked.								
Amboy	Amboy	Y	X			N	Y							X	X							X	Various, including fire station at 101	1							12			N Y	X X					Y Y	Y Y	Believe that Class B foam is 3M.	Class B foam not used in training, multiple training sites, site not ranked.								
Annandale	Annandal	N		X		N	Y			X				X	X							X	Various								7			Y		X				Y	Y	Class A foam use only, site not ranked.								
Anoka-Champlin	Anoka	N		X		N	Y							X			X		X				Unknown, haven't trained in 3-4 years.								2			N			X			Y		Class A foam use only, site not ranked.								
Apple Valley	Apple Valley	N		X		N	Y						X				X		X	X		X	Fire Sta. #1, 15000 Hayes Rd; Apple Valley central maintenance facility, 8442 140th St. W.	7	7						6			Y Y	X	X				N Y	Y Y		0	2	1	3	2	3	5	16

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TABLE 2
ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES
October 15, 2008

Department	Location	Site in Source Water Assessment Area?	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: 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 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; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	WPA/SWA: site in WPA and/or SWA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
																								Appleton Public Works bldg, 427 S. Munsterman St.		3								Y		X				Y													
Appleton	Appleton	N		X		N	Y				X				X							X								2			Y		X				Y			0	4	1	3	0	3	0	11
Arlington	Arlington	N	X			N	N																	Not applicable								9			N			X			Y	Y		Class A foam use only, site not ranked.							
Arrowhead	Brookston	N		X		N	Y				X				X							X		Fire hall, 9798 Hwy 2, Brookston								2			Y	X					Y	Y		Class A foam use only, site not ranked.							
Ashby	Ashby	N			X	N	Y					X			X							X		Not specified								2			Y		X					Y		Class A foam use only, site not ranked.							
Atwater	Atwater	Y	X			N	Y					X			X									Various								2			Y	X					Y	Y		Class A foam use only, site not ranked.							
Aurora	Aurora	N	X			N	N																	Not applicable								2			N		X				Y	Y		Class A foam use only, site not ranked.							
																										1									N						N	Y	Foam Pro								
Austin	Austin	N	X			N	Y					X			X							X		Marcusen Park, S. Main St., Austin								2			N		X				Y		proportioner with A-B tank.	Class B foam not used in training, site not ranked.							
Avon	Avon	N	X			N	Y						X		X							X		City. Rd. 155 & Angelfish Rd., Avon								2			Y			X			Y			Class A foam use only, site not ranked.							
																										3									N	X					Y										
																																	2			Y	X					Y	Y									
Babbitt	Babbitt	N	X			N	Y					X			X							X		34 North Dr., Babbitt									4		Y	X					Y			Class B foam not used in training, site not ranked.							
																																	12			N	X					Y	Y	Trainec one time								
Backus	Backus	Y	X			N	N																	Not applicable										12	N	X					Y		with new nozzle.	Foam not used in training, site not ranked.							
Bagley	Bagley	N	X			Y	N																	Not applicable								2			N			X						Class A foam use only, site not ranked.							
																										1									N	X															
																								Grassy field at city burn site, SE corner of town near end of Lake St.								1			N	X															
Beleton	Beleton	N	X			N	Y					X				X						X										1			Y	X								Class B foam not used in training, site not ranked.							
Belsam	Bovey	N	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.							
Bemum	Bemum	N			X	N	Y					X			X							X		Fire hall park lot, 3642 Church St.								6			Y	X					Y	Y		Class A foam use only, site not ranked.							
Bennett	Bennett	Y																														12												Class A foam use only, site not ranked.							
Battle Lake	Battle Lake	N		X		Y	Y							X	X							X		Battle Lake Airport								2			Y	X					Y			Class A foam use only, site not ranked.							
Baudette	Baudette	N			X	Y	Y					X			X				X			X		Various								2			Y			X						Class A foam use only, site not ranked.							
Beardsley	Beardsley	N	X			N	Y					X			X							X		Various								2			Y	X					Y			Class A foam use only, site not ranked.							
Belgrade	Belgrade	Y		X		N	N																	Not applicable								2			N			X			Y			Class A foam use only, site not ranked.							
Bellingham	Bellingham	N	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	N	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.							
																										12									N	X					Y	Y	Train with Dawn								
Belview	Belview	N		X		N	Y					X			X				X			X		Various								12			N	X					Y	Y	dish soap.	Class B foam not used in training, multiple training sites, site not ranked.							

2233.0024

STATE_02826836

TABLE 2
ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES
October 15, 2008

| Department | Location | Site in Source Water Assessment Area? | 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: (1) 3M brand foam | (2) Ansul Silv-ex | (3) Ansulite | (4) Other/ unspecified Ansul foam product | (5) Angus Forexpan S | (6) Angus Hi-Compat | (7) Other/unspecified Angus foam product | (8) National Foam product | (9) Chemguard foam product | (10) HCT F-500 A-B | (11) Pyrocom Aqua Sticks | (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 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; Transition=4; Covered=2; No=0 | Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0 | WPA/SWA: site in WPA and/or SWA=5; within 1/4 mile=4; within 1 mile=2; No=0 | OVERALL SITE RANKING |
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TABLE 2
ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES
October 15, 2008

Department	Location	Site in Source Water Assessment Area?	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: (1) 3M brand foam; (2) Ansul Silv-ex; (3) Ansulite; (4) Other/ unspecified Ansul foam product; (5) Angus Forexpan S; (6) Angus Hi-Compat; (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 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; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	WPA/SWA: site in WPA and/or SWA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
																									9										N	X							Class A foam type							
Brimson	Brimson	N			X	N	Y					X			X							X		3127 Hwy. 44								12			Y	X					Y	Fire-Trol.	Class B foam not used in training, site not ranked.							
Brook Park	Brook Park	N	X			N	Y					X			X							X		Fire hall, Brook Park								2			N			X			Y		Class A foam use only, site not ranked.							
Brooklyn Center	Brooklyn Center	N		X		Y	Y			X							X		X			X		Fire station #1, 6250 Brooklyn Blvd.; Fire station #2, 6500 Dupont Av. N.																				Foam type, annual usage not specified; back of form not completed.	8[a]	8	1	1	4	3	5	28
																									4										N	X						Y	Y	Train with training foam or dish soap.							
Brooklyn Park	Brooklyn Park	N	X			N	N																	Not applicable								2		12	N		X				Y	Y	Brand of Class A and Class B foams vary.	Class B foam not used in training, site not ranked.							
																																		7			Y		X				Y	Y								
Brooten	Brooten	N	X			Y	Y					X			X							X		Unspecified grasslands										10	N						Y	N	Just go: A/B foam sticks, haven't used yet. No historic use of Class B foam.	Class A foam use only, site not ranked.							
Browerville	Browerville	N	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.							
																									1										N	X								Not sure brand							
Browns Valley	Browns Valley	N	X			N	Y					X			X							X		Various									X		Y							AFFF, may be 3M.	Class B foam not used in training, multiple training sites, site not ranked.							
Brownsdale	Brownsdale	N	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	Y	X			N	Y					X			X							X		Not specified								6			N	X								Class A foam use only, site not ranked.							
Buffalo	Buffalo	N	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.							
																									1										Y	X						Y								
Buffalo Lake	Buffalo Lake	N	X			Y	Y						X		X				X					315 N. Main St., at Main & Church Sts.								6			Y	X					Y			8	2	1	1	0	1	2	15
Buhl	Buhl	N			X	N	Y					X				X			X			X		702 Seville Av.								5			Y			X			Y	Y		Class A foam use only, site not ranked.							
																										4										Y			X			Y								
																																		2			Y				X		Y		Training facility jointly owned by Burnsville, Apple Valley, Eagan and Lakeville. AFFF-AR type Ansul ATC 3/6.							
Burnsville	Burnsville	N			X	N	Y					X					X					X		Cliff Rd & River Ridge Blvd.									4		Y				X			Y	Y		0	4	3	3	5	3	5	23
Buyck	Buyck	N	X			N	Y					X			X							X		8035 On-Buyck Rd., Buyck									12		Y									Not sure Class A foam brand.	Class A foam use only, site not ranked.							
																																		2			Y		X				Y								
Byron	Byron	N	X			N	Y				X				X							X		Various										10	Y	X						Y		Multiple training locations, site not ranked.							
																									7										N	X						Y	Y								
																																		7			N	X					Y	Y	Train with dish soap.							
Caledonia	Caledonia	N	X			N	N																	Various										2			N	X					N	Y	May have used Silv-ex 10+ years ago.	Foam not used in training, site not ranked.							

2233.0026

STATE_02826838

TABLE 2
ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES
October 15, 2008

Department	Location	Site in Source Water Assessment Area?	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: (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 Sticks; (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 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; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	WPA/SWA: site in WPA and/or SWA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
Calumet	Calumet	N	X			N	N																	Not applicable								2		N	X					N	N		Class A foam use only, site not ranked.								
Cambridge	Cambridge	N		X		Y	Y								X							X		One time training when first got pumper truck.								2		Y	X					Y	N		Class A foam use only, site not ranked.								
Campbell	Campbell	Y	X			N	Y						X				X					X		Various vacant lots.	12							12		N	X					Y	N	Have Class A and B foams on hand, have never used. Train with training foam.	Class B foam not used in training, multiple training locations, site not ranked.							
																																12		N	X					Y	N									
Canby	Canby	N	X			N	Y				X					X						X		Various						12				N	X					Y	Y	Foam brands not specified.	Class B foam not used in training, multiple training locations, site not ranked.							
																																12		N	X					Y	Y									
Cannon Falls	Cannon Falls	N	X			N	Y					X			X							X		Cannon Valley fairgrounds, Cannon Falls	7							7		Y	X					Y			0	2	3	3	5	1	4	18
Canosia	Duluth	N	X			N	Y				X				X							X		Not specified								9		Y		X				Y	Y		Class A foam use only, site not ranked.							
Carlton	Carlton	N	X			N	Y					X					X					X		Fire hall parking lot, 100 4th St (4th St.								2		Y	X					Y	Y	Class A foam type Safeguard.	Class A foam use only, site not ranked.							
																																12		Y	X					Y	Y									
Cass Lake	Cass Lake	N	X			N	Y					X					X					X		Railroad ROW by 8 Railroad St. NW, Cass Lake	7									Y	X						Y									
																									12										Y	X						Y									
																										3							2		N	X					Y		AFFF type US Foam First Strike.	0	4	1	1	0	3	4	13
Centennial	Lino Lakes	N			X	N	Y							X	X							X		Various	1									N	X						Y		Multiple training locations. site not ranked.							
																																12		N		X					Y									
Chanhassen	Chanhassen	N	X			Y	Y				X				X							X		Park Place cul-de-sac, Chanhassen	3									N	X								Class B foam not used in training, site not ranked.								
																										3							6		N	X					N	X									
Chaska	Chaska	N			X	N	Y					X			X							X		Fire hall, 285 Engler Blvd.		6						6		Y		X				Y			Class B foam not used in training, site not ranked.							
Cherry	Cherry	N	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	Y		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	N			X	N	Y				X						X					X		Various								2		Y	X								Class A foam use only, site not ranked.							
Chokio	Chokio	N		X		N	Y				X				X				X			X		Athletic Field, 3rd St. W. & 4th Av. S.; and, empty farmstead Sect. 25 Leonardsville Twp.								7		Y	X					Y			Class A foam use only, site not ranked.							
Claremont	Claremont	Y	X			N	Y					X				X			X			X		Front of fire hall, Front Street		1						4		Y		X						Built in foam tank, but not compressed.	8	2	1	0	4	3	5	23
Clarkfield	Clarkfield	Y	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	Y	X			N	Y					X			X							X		Fire station, 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	N		X		Y	N																	Not applicable		7								N		X				Y			Foam not used in training, site not ranked.							

2233.0027

STATE_02826839

TABLE 2
ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES
October 15, 2008

Department	Location	Site in Source Water Assessment Area?	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: (1) 3M brand foam; (2) Ansul Silv-ex; (3) Ansulite; (4) Other/ unspecified Ansul foam product; (5) Angus Forexpan S; (6) Angus Hi-Compat; (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 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; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	WPA/SWA: site in WPA and/or SWA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
Clearbrook	Clearbrook	N	X			N	Y					X					X							Tank farm on south edge of town.							12			Y	X					Y	Y	Train with Class B foam at tank farm, brand unknown. Spent foam caught on top of floating lids.	8[2]	4	3	3	0	3	2	23
Clearwater	Clearwater	N	X			Y	N																	Not applicable																				No foam currently on hand.	Foam not used in training, site not ranked.							
Clements	Clements	N	X			Y	Y						X		X							X		Various							2			Y	X					Y	N		Class A foam use only, site not ranked.							
Clifton Twp	Duluth	N	X			N	Y					X			X							X		Fire Hall #1, 2146 Old North Shore Rd.							9			N	X					N	Y	Historic use of Chemguard Plus; future use of Chemguard First FC.	Class A foam use only, site not ranked.							
Clontarf	Clontarf	N	X			N	Y							X	X				X			X		Train with Benson Fire Dept in Benson.							2			Y	X					Y		Switching to F-500 A/B foam.	No current or historic training with Class B foam, site not ranked.							
Cloquet	Cloquet	N	X			N	Y						X				X					X		Gravel pit next to city garage at 410 Armory Road		7					7			Y	X					Y	Y	Foam used in training 50/50 between dish soap and Angus foam, Class B and A.	0	2	1	3	0	1	5	12
Cohasset	Cohasset	N			X	N	Y				X					X						X		Various		9					2			Y		X		X		Y		Train mostly with Class A foam, occasionally Class B.	Multiple training locations, site not ranked.							
Cokato	Cokato	Y	X			Y	Y					X			X							X		Various live burns.							12			Y	X					Y	Y	No current or historic use of Class B foam	Class A foam use only, site not ranked.							
Cold Spring	Cold Spring	N			X	Y	Y				X				X							X		Various	7	7					2			N N Y	X X			X		Y Y	Y N Y		Class B foam not used in training, multiple training sites, site not ranked.							
Coleraine	Coleraine	N				Y	Y							X	X							X		Old city dump, past WWTP, at brush/	12						12			N Y	X	X				Y	Y	Not sure of foam brands.	Class B foam not used in training, site not ranked.							
Colvill	Colvill	N	X			N	Y					X			X							X		1450 Cty. Rd. 14 Colvill							2			Y	X					Y		Dawn dish soap also used in training.	Class A foam use only, site not ranked.							
Comfrey	Comfrey	N	X				Y						X			X						X		Various	3						2			Y Y	X					Y Y			Multiple training locations, site not ranked.							
Conger	Conger	Y	X			N	Y					X										X		Various							2			Y		X				Y	Y	No Class B foam use now or in past.	Class A foam use only, site not ranked.							
Cook	Cook	Y				N	Y							X								X		Various live burns							12			Y	X					Y	Y		Class A foam use only, site not ranked.							
Coon Rapids	Coon Rapids	N	X			N	Y						X		X							X		Fire hall, 1199 121st Av. NW		6					2 11			N N Y		X							Class B foam not used in training, site not ranked.							
Cosmos	Cosmos	N	X			Y	Y			X						X			X			X		Various							2			Y	X					Y			Class A foam use only, site not ranked.							
Cottage Grove	Cottage Grove	N	X			N	Y							X	X							X		Fire Station 2, 8841 80th St. S.		1					7			Y N	X		X						8	2	3	3	5	1	5	27
Cottonwood	Cottonwood	N	X			N	N																	Not applicable	1	3					2			N N N		X				N Y Y	Y		Foam not used in training, site not ranked.							

2233.0028

STATE_02826840

TABLE 2
ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES
October 15, 2008

Department	Location	Site in Source Water Assessment Area?	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 (1) 3M brand foam (2) Ansul Silv-ex (3) Ansulite (4) Other/ unspecified Ansul foam product (5) Angus Forexpan S (6) Angus Hi-Compat (7) Other/unspecified Angus foam product (8) National Foam product (9) Chemguard foam product (10) HCT F-500 A-B (11) Pyrocom Aqua Sticks (12) Other or unspecified foam product											Foam Used in Training?	Annual Foam Usage					Current Use?	Historic Use?	Site Notes	SITE RANKING CRITERIA							
			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	WPA/SWA: site in WPA and/or SWA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
Cromwell	Cromwell	N			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	N	X			N	Y						X			X						X		By city public works bldg. in Crosby							6			Y	X				Y			Class A foam use only, site not ranked.							
Crosslake	Crosslake	N	X			N	Y					X			X					X				Joint City/County maintenance facility, 13970 Whipple.		12								Y	X				Y		Foam type not specified.	6[a]	2	3	3	0	3	2	21
Cuyuna	Aitkin	Y	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	N			X	N	N																	Not applicable							2			N							Foam amount not specified.	Class A foam use only, site not ranked.						
Darfur	Butterfield	Y	X			N	Y						X		X							X		Various		3					12			Y	X				Y		Class A foam type 1st Defense.	Multiple training locations, site not ranked.						
Dassel	Dassel	Y		X		N	Y						X		X							X		933 Curran St.							7			Y	X				Y	Y		Class A foam use only, site not ranked.						
Davison	Dawson	N	X			N	N																	Not applicable				1						N							Y		Class B foam not used in training, site not ranked.						
Deer Creek	Deer Creek	Y	X			N	Y							X	X							X		Fire hall, 102 Baker St.							2			Y	X				Y			Class A foam use only, site not ranked.						
Deerwood	Deerwood	N	X			N	Y						X		X							X		By city maintenance bldg. on Industrial Road, Deerwood		7					6			N	X							Class B foam not used in training, site not ranked.						
Degraff	Degraff	Y	X			Y	Y					X			X							X		Parking lot of St. Bridget's Church							12			Y	X				Y	Y	Not sure Class A foam brand.	Class A foam use only, site not ranked.						
Detroit Lakes	Detroit Lakes	N					N																	Not applicable	1						2			N	X				Y	Y								
																															2			N			X		N	Y	Class B foam on hand, haven't used in over 15 years. Haven't trained with foam in over 24 years.	Foam not used in training, site not ranked.						
Dilworth	Dilworth	N	X				Y					X			X							X		Fire hall, 709 1st Ave. NW						4	2			Y	X							0	2	3	1	0	3	2	11
Donnelly	Donnelly	Y	X			N	Y				X				X									In front of fire hall, 4th Street							12			Y	X				Y	Y	Fire chief not sure of foam brand.	Class A foam use only, site not ranked.						
Dover	Dover	N	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			Y	X						AFFF is mostly used at William Bros. Pipeline facility about 6 miles away.	Multiple training locations, site not ranked.						
Duluth	Duluth	N	X			N	Y					X			X				X					602 W. 2nd St.	1						2			N	X				Y	Y		Class B foam not used in training, site not ranked.						
																										1									N	X				Y	N								
Dunnell Lake Fremont	Dunnell	N	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	4	9
Eagan	Eagan	N			X	N	Y							X	X									Various							2			Y				X	Y	Y	Rarely use foam in training due to cost.	Class A foam use only, site not ranked.						

2233.0029

STATE_02826841

TABLE 2
ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES
October 15, 2008

Department	Location	Site in Source Water Assessment Area?	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: (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 Sticks; (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 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; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	WPA/SWA: site in WPA and/or SWA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
Eagle Lake	Eagle Lake	N			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	N	X			N	Y						X			X						X		Northland Comm College, 2022 Central Av NE							9			Y	X								Training at community college, site not ranked.							
East Hubbard County Fire Protection District	Akeley	Y																											12													Class A foam use only, site not ranked.							
Easton	Easton	N	X			N	Y							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	Y	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	N			X	N	N																	Not applicable							7			N			X						Class A foam use only, site not ranked.							
Eden Valley	Eden Valley	N	X			Y	N																	Not applicable							6			N		X						Class A foam use only, site not ranked.							
Edina	Edina	N		X		N	Y							X	X							X		Various									10	Y			X		Y	Y		HCT F-500 does not contain PFCs, multiple training locations, site not ranked.							
Elbow-Tulaby Lakes	Waubun	N	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	N	X			N	N																	Not applicable							2			N	X						Trainec one time with foam.	Class A foam use only, site not ranked.							
Elk River	Elk River	N	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	N	X			N	Y					X			X							X		Fire Hall, 1763 Melrude Rd., Melrude, MN	12																AFFF type U.S. Foam; quantity and use in training not specified.	0	2	3	3	0	1	0	9
Elmer	Elmer	N	X			N	Y					X			X							X		Elmer Town Hall 7682 Hwy. 5 Meadowlands	9								9		N	X						New system, one training event thus far.	Class B foam not used in training, site not ranked.							
Ely	Ely	N		X		N	Y					X			X				X					Miners Drive							5 2			Y			X						Class A foam use only, site not ranked.							
Elysian	Elysian	Y	X			Y	Y					X			X							X		Fire hall, 202 E. Main	12						12			Y	X					Y		Fire chief not sure of foam brands, doesn't think they've ever used 3M foams.	0	2	3	3	2	1	5	16
Emmons	Emmons	Y	X			N	N																	Not applicable							2			N	X					Y	Y		Class A foam use only, site not ranked.							
Erskine	Erskine	Y				N	Y							X	X									Various	1									Y		X			Y	Y		Multiple training locations, site not ranked.							
Evansville	Evansville	N	X			N	Y					X				X			X			X		East end of town, (new) Council Circle.		8								Y								AFFF-AR type National Foam Universal Gold 1%-3%; foam quantity not specified.	0	2	1	3	0	1	4	11

2233.0030

STATE_02826842

TABLE 2
ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES
October 15, 2008

Department	Location	Site in Source Water Assessment Area?	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: 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 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; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	WPA/SWA: site in WPA and/or SWA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
Excelsior	Shorewood	N			X	Y	Y					X			X							X	Various								2			Y			X			Y			Class B foam not used in training, multiple training sites, site not ranked.								
																									3										Y						Y	N										
																										1									Y	X					Y	Y										
Fairmont	Fairmont	N	X			N	Y			X					X							X	City shop park lot, 417 E. Margaret St.								2			N	X					Y	Y		8	6	3	3	0	1	0	21
																																	10	Y			X			Y	N										
Falcon Heights	Falcon Heights	N	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.									
																																1			Y	X																
Farmington	Farmington	N				Y	Y				X				X				X				Fire hall 1. or high school parking lot across the street.	4										N	X					Y	Y										
																								12							2			N	X					Y	Y	Use Ansul and Pioneer Products foams.	Class B foam not used in training, site not ranked.									
																																			Y		X				Y	Y										
Finland	Finland	N			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.										
																									3										N	X					Y										
Fisher	Fisher	Y	X			N	Y				X				X							X	4th St. N.								2			Y	X					Y		Class B foam not used in training, site not ranked.										
Floodwood	Floodwood	N	X			N	Y																Not applicable								2			N		X							Class A foam use only, site not ranked.										
Foreston	Foreston	Y	X			N	Y					X			X							X	Various								12			Y	X							Class A foam type not specified.	Class A foam use only, site not ranked.									
Fosston	Fosston	N		X		N	Y					X			X				X			X	North side of 10th St., west of Cty. Rd. 30, Fosston								9			Y		X						Class A foam use only, site not ranked.										
Fountain	Fountain	Y	X			Y	Y						X		X							X	Train with foam at live burns only.										10	Y	X							Train with water only.	Class B foam not used in training, site not ranked.									
																									12										N						N	Y										
Freeborn	Freeborn	Y		X		N					X				X								Various								2			Y		X				Y	N	Haven't used Class B foam in ~30 years.	Multiple training locations, site not ranked.									
Freeport	Freeport	N	X			N	Y					X			X							X	Not specified								7			N	X							Training maybe once per year or not at all.	Class A foam use only, site not ranked.									
French	Side Lake	N		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.										
																										1									Y	X					N	Y										
Fridley	Fridley	N			X	N	Y							X	X							X	300 71st Av., Fridley (North Metro Fire Training Center)								2			N						Y		Discharge to retention pond.	8	2	3	3	4	3	5	28
																									3										N	X																
Garfield	Garfield	N	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	N		X			Y					X			X							X	Not specified								7			Y	X					Y	Y		Class B foam not used in training, site not ranked.										
Geneva	Geneva	Y	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	Y		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.									

2233.0031

STATE_02826843

TABLE 2
ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES
October 15, 2008

Department	Location	Site in Source Water Assessment Area?	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: (1) 3M brand foam; (2) Ansul Silv-ex; (3) Ansulite; (4) Other/ unspecified Ansul foam product; (5) Angus Forexpan S; (6) Angus Hi-Compat; (7) Other/unspecified Angus foam product; (8) National Foam product; (9) Chemguard foam product; (10) HCT F-500 A-B; (11) Pyrocom Aqua Sticks; (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 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; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	WPA/SWA: site in WPA and/or SWA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
Gilbert	Gilbert	N	X			N	Y						Y		X							X		Recycling area, Indiana Av. E. and Sherwood Forest Dr.								2			Y		X				Y	Y	Last training with foam was 2 years ago, at recycling area.	Class A foam use only, site not ranked.							
Glenville	Glenville	N	X			N	Y				X				X							X		High school football field		4									Y	X								0	2	3	1	4	3	0	13
Glenwood	Glenwood	N	X				Y						X		X							X		Not specified								5			Y	X								Class A foam use only, site not ranked.							
Golden Valley	Golden Valley	N	X			N	Y				X						X		X			X		7600 Golden Valley Road		7						7			Y		X		X					0	6	3	1	4	3	5	22
Goodland	Goodland	N		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.							
Goodview	Goodview	N			X	N	Y					X				X			X					Across street from fire station, 4140 W. 5th St.	4							2		10	Y	X		X			Y	N	Y	Switched to A/B sticks in March 2008.	0	2	3	3	5	3	5	21
Graceville	Graceville	N	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	N			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	N	X			N	N																	Not applicable								6			N	X								Class A foam use only, site not ranked.							
Greenbush	Greenbush	N		X		Y	Y						X		X							X		Not specified		9						9			N	X								Class B foam not used in training, site not ranked.							
Grey Eagle	Grey Eagle	Y	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	Y	X			N	Y					X			X							X		Not specified								7			Y	X								Class A foam use only, site not ranked.							
Gurrflint Trail	Grand Marais	N	X			N	Y					X			X							X		Various								12			Y	X							Foam type not specified.	Class A foam use only, site not ranked.							
Hackensack	Hackensack	N		X		Y	Y					X			X							X		Not specified								2			Y	X								Class A foam use only, site not ranked.							
Ham Lake	Ham Lake	N			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	N	X			N	Y					X			X							X		161 Broadway, Hamburg							7				Y	X								0	2	3	3	2	3	2	15
Hamel	Hamel	N		X		Y	Y		X							X			X			X		Fire Station, 92 Hamel Road and various								2			Y					X	Y	Y	300 gallons foam used annually.	Class A foam use only, site not ranked.							
Hanley Falls	Hanley Falls	Y	X			N	N																	Not applicable								12			N	X					Y	Y	Nearby ethanol plant stocks own foam, used by fire department on fires.	Class A foam use only, site not ranked.							
Hardwick	Hardwick	N	X			N	N																			12			N	N					Y		Foam brand not known. No regular training with foam, only one time several years ago with new equipment.	No training with foam, site not ranked.							

2233.0032

STATE_02826844

TABLE 2
ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES
October 15, 2008

Department	Location	Site in Source Water Assessment Area?	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: (1) 3M brand foam	(2) Ansul Silv-ex	(3) Ansulite	(4) Other/ unspecified Ansul foam product	(5) Angus Forexpan S	(6) Angus Hi-Compat	(7) Other/unspecified Angus foam product	(8) National Foam product	(9) Chemguard foam product	(10) HCT F-500 A-B	(11) Pyrocom Aqua Sticks	(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 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 Notes
																										3																			Y	X				Y		
																								Fire hall, Main Av.												2							Y	X				Y		
Harmony	Harmony	Y	X				N	Y					X			X			X			X		S. and Brush dump, east of intersection of 138 & Gordon Rd.																	11	Y					Y		
Harris	Harris	N		X			N	N																Not applicable												7						N	X				Y	Y	
Hartlanc	Hartland	Y	X				N	N																Not applicable												2						N	X						
																									1																		Y							
																										3																	Y							
																																					7						Y	X						
Hastings	Hastings	N	X				N	Y					X				X		X			X		Various																	10	Y							Multiple training locations, site not ranked.
Hawley	Hawley	N	X				N	N																Not applicable												2						N	X				Y	Y	
Hayfield	Hayfield	Y	X				N	N																Not applicable												12						N			X		Y		Class A foam brand varies. Class A foam use only, site not ranked.
Hendrum	Hendrum	Y	X				N	Y				X			X				X			X		Various												12						Y	X				Y	Y	Class A foam use only, site not ranked.
Herman	Herman	N				X	N	Y			X					X						X		Various												9						Y			X			Y	Class A foam use only, site not ranked.
																								Around fire hall,		7																N							
Heron Lake	Heron Lake	N	X				Y	Y					X			X						X		1111 2nd Ave.												7						Y	X						Class B foam not used in training, site not ranked.
Hewitt	Hewitt	Y	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.
																								2320 Brooklyn Dr.,												2						N	X						
Hibbing	Hibbing	N	X				N	Y					X			X						X		Hibbing																	10	Y	X						HCT F-500 does not contain PFCs, site not ranked.
																								700 block of Central												2						Y	X				Y		
Hills Area	Hills	N	X				N	Y					X			X			X			X		Ave.																									Class A foam use only, site not ranked.
Hill City	Hill City	Y		X			N	N																Not applicable												2						N	X						Class A foam use only, site not ranked.
																								End of cul-de-sac																									
																								on Industrial Road																									
																								just east of Morris																									
Hinckley	Hinckley	Y					Y	Y					X				X					X		Ave.												2													Foam cuantity not specified. Class A foam use only, site not ranked.
																								Salvage yard, build																									Class A foam type
Hitterdal	Hitterdal	Y	X				N	Y			X				X							X		sites												12						Y	X				Y	Y	not specified. Class A foam use only, site not ranked.
																																				2						Y			X		Y	Y	
																								Tarred parking lots																									Remaining stock of Ansul WetWater foam being used on grass fires. Silv-ex foam annual use
																								around fire hall (480																									ranges from 5 to 50
																								Main) or at high																									gallons/year.
																								school (900 5th St.);																									
																								and softball field at																									
Holdingford	Holdingford	Y		X			N	Y				X			X				X			X		201 Main.												4						N	X					Y	Class A foam use only, site not ranked.
																								Various training																									
																								locations, including																									
Holland	Holland	N					N	Y				X			X							X		live burns.												12						Y	X				Y		Class A foam use only, site not ranked.
																									12																									
																																					2						Y		X			N	Y	
Hollandale	Hollandale	N		X			N	Y				X			X							X		Various												2						Y		X			Y	N	Haven't used Class B foam in ~30 years. Multiple training locations, site not ranked.
																									1																		N	X				Y		
																																				7						Y	X				Y		
																																								1	Y	X				Y		Train with Class A
																																								10						Y		or training foam at
Hopkins	Hopkins	N	X				N	Y					X			X				X				Various																	9								various locations. Class B foam not used in training, various training locations, site not ranked.

Department	Location	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	WPA/SWA: site in WPA and/or SWA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
Harmony	Harmony	0	2	3	3	5	1	5	19
Harris	Harris	Class A foam use only, no training with foam. Site not ranked.							
Hartlanc	Hartland	Class A foam use only, no training with foam. Site not ranked.							
Hastings	Hastings	Multiple training locations, site not ranked.							
Hawley	Hawley	Class A foam use only, site not ranked.							
Hayfield	Hayfield	Class A foam use only, site not ranked.							
Hendrum	Hendrum	Class A foam use only, site not ranked.							
Herman	Herman	Class A foam use only, site not ranked.							
Heron Lake	Heron Lake	Class B foam not used in training, site not ranked.							
Hewitt	Hewitt	Class A foam use only, site not ranked.							
Hibbing	Hibbing	HCT F-500 does not contain PFCs, site not ranked.							
Hills Area	Hills	Class A foam use only, site not ranked.							
Hill City	Hill City	Class A foam use only, site not ranked.							
Hinckley	Hinckley	Class A foam use only, site not ranked.							
Hitterdal	Hitterdal	Class A foam use only, site not ranked.							
Holdingford	Holdingford	Class A foam use only, site not ranked.							
Holland	Holland	Class A foam use only, site not ranked.							
Hollandale	Hollandale	Multiple training locations, site not ranked.							
Hopkins	Hopkins	Class B foam not used in training, various training locations, site not ranked.							

2233.0033

STATE_02826845

TABLE 2

ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES

October 15, 2008

Department	Location	Site in Source Water Assessment Area?	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: 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 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; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	WPA/SWA: site in WPA and/or SWA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
																									12									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	N			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	N	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											
Hutchinson	Hutchinson	N		X		N	Y			X					X				X			X	205 3rd Av. SE and 1300 Adams St. SE		1						2		Y	X					N	Y		8	4	1	1	0	3	5	22
Ideal	Pequot Lakes	N		X		Y	Y				X				X							X	Township transfer station								7		Y		X				Y	Y		Class A foam use only, site not ranked.							
Industrial	Saginaw	N	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.							
Isanti	Isanti	Y	X				N																Two fire stations.	7									N	X					Y	Y	Have foam on hand, haven't used in 32 years. Foam training is classroom only, no foam discharge.	Class B foam not used in training, site not ranked.							
Isle	Isle	N	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	Y			X	Y	Y				X				X				X				305 Sheridan								2		Y	X								Class A foam use only, site not ranked.							
Jasper	Jasper	N	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											
Jeffers	Jeffers	N	X			N	Y					X			X							X	South of Peavey Street								2		Y	X					Y		No use of 3M foam as indicated on questionaire.	Class B foam not used in training, site not ranked.							
Jordan	Jordan	N	X			N	Y					X			X							X	Vacant field on the west side of Irvine Industriel Drive in industrial park.								7		Y	X					Y	Y		Class A foam use only, site not ranked.							
Kasson	Kasson	Y			X	N	Y					X				X						X	2408 670th St.								2		Y			X			Y			Class A foam use only, site not ranked.							
Kelliher	Kelliher	Y			X	N	Y					X			X				X			X	Grassy area behind fire hall.								2		Y			X			Y	Y		Class A foam use only, site not ranked.							
																									1									Y		X				Y	Y	Foam brands vary. Very little foam used in training.							
Kenyon	Kenyon	Y	X			Y	Y						X		X								Fire station, 714 2nd St.								12		N	X					Y	Y		8	2	3	1	5	3	5	27

2233.0034

STATE_02826846

TABLE 2

ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES

October 15, 2008

Department	Location	Site in Source Water Assessment Area?	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: 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 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; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	WPA/SWA: site in WPA and/or SWA=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 Sticks (12) Other or unspecified foam product																																						
Kerkhoven	Kerkhoven	Y		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.								
Kiester	Kiester	N	X			N	Y																	South Central College, North Mankato.				12				2			N		X						Training off-site at VoTech.	Training at community college, site not ranked.								
Kilkenny	Kilkenny	N		X		N	Y					X			X							X		Not specified								2			Y	X					Y	N		Class A foam use only, site not ranked.								
Kimball	Kimball	Y	X			Y	N																	Not applicable								12			N		X				Y	Y	DNR-supplied Class A foam. No training with foam.	Foam not used in training, site not ranked.								
Kinney-Great Scott	Kinney	N	X			N	N																	Not applicable								2			N	X								Class A foam use only, site not ranked.								
LaCrescent	LaCrescent	N			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.								
Lafayette	Lafayette	N	X			Y	Y							X	X				X					Various								12			Y								Haven't trained with foam in a long time.	Class A foam use only, site not ranked.								
Lake Elmo	Lake Elmo	N		X		N	Y						X		X							X		Various	1										Y	X																		
																											4							N	X																	
																																7			Y			X						Multiple training locations, site not ranked.								
Lake Johanna	Shoreview	N		X		N	Y					X						X	X					Various locations, mostly at Station 3, 5545 Lexington Av.	7							2			Y			X			Y	Y	Rarely use Class B foam in training.	0	4	3	3	2	3	0	15
Lake Lillian	Lake Lillian	Y	X			N	N																	Not applicable								12			N	X					Y	Y	Use water and dish soap in training.	Foam not used in training, site not ranked.								
Lake Park		Y	X			N	N																	Not applicable								12			N						Y	Y	Haven't used foam in five years since Fire Chief on dept.	Class A foam use only, foam not used in training, site not ranked.								
Lakefield	Lakefield	N	X			N	N																	Not applicable		3						2			N	X					Y			Foam not used in training, site not ranked.								
Lakeville	Lakeville	N	X			N	Y					X			X				X			X		Various	12							12			Y						Y	Y	Don't know foam brand.	Multiple training locations, site not ranked.								
Lakewood Twp	Duluth	N			X	N	N																	Not applicable								2			N			X			Y			Class A foam use only, site not ranked.								
Lanesboro	Lanesboro	N	X			N	Y						X		X							X		Lanesboro ball park parking lot, County Road 9	11							11			Y Y	X X					Y Y		Used to have AR-AFFF, don't recall ever using, got rid of old stock.	0	2	3	3	5	1	4	18
																										12							N						N	Y									
Le Center	Le Center	N		X		Y	N																	Not applicable								2			N			X			Y			Class A foam use only, site not ranked.								
Le Sueur	Le Sueur	N		X		Y	N																	Not applicable								2			N			X			Y	Y		Class A foam use only, site not ranked.								
Leaf Valley Twp	Milrona	N	X			Y	Y					X			X							X		In a field on a hay bale.								12			Y	X								Class A foam use only, site not ranked.								
																										12							N		X															
LeRoy	LeRoy	N	X			N	N																	Not applicable								12			N		X						Use less than 20 gallons total annually.	Foam not used in training, site not ranked.								

2233.0035

STATE_02826847

TABLE 2
ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES
October 15, 2008

Department	Location	Site in Source Water Assessment Area?	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: Class B AFFF	Class B AR-AFFF	Class B Protein	Class B FP	Class B FFFP	Class B AR-FFFP	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 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; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	WPA/SWA: site in WPA and/or SWA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
Lewiston	Lewiston	N	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.								
Lewisville	Lewisville	N	X			N	Y					X			X				X					In front of fire hall driveway								12			Y	X					Y			Class A foam use only, site not ranked.								
Lexington	Lexington	N	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	N		X		N	Y					X					X					X		Behind fire station, 22870 Type Creek Dr., Stacy	1	1						2			Y	X					Y			8	4	3	3	0	3	2	23
																																		Y	X					N		X												
Lismore	Lismore	N	X			N	Y				X				X							X		Barn fire, Birkett & 170th St.								12			Y						Y		No current or past use of Class B foam.	Class A foam use only, site not ranked.								
																									4										N	X					Y	N	Mostly train with								
																											12								N	Y	training foam. Just								
																															2			Y		X				Y	Y	started carrying								
Litchfield	Litchfield	N		X		N	Y					X			X							X		Various									12		Y						Y	Y	Class B foam last month.	Class B foam not yet used in training, multiple training sites, site not ranked.								
																									4										N																		
Little Canada	Little Canada	N			X	N	Y					X			X							X		Park lot behind fire station, 325 Little Canada Rd.								2			Y	X						Y		Class B foam not used in training, site not ranked.								
																									1										N	X					N	Y												
Little Falls	Little Falls	N	X			N	Y						X		X							X		Fire hall, 314 1st Street NE									10		N		X				Y												
																															2			Y	X					Y	Y	Class B foams not used in training, site not ranked.								
Littlefork	Littlefork	N	X			N	Y					X			X				X					Fire hall, McPherson & 3rd Av.																			Foam type and quantity not specified.	8[a]	2	3	3	0	3	4	23
Long Prairie	Long Prairie	N	X			N	Y					X			X				X			X		Fire hall park lot, 815 Lake St. S.								2			Y	X					Y			Class A foam use only, site not ranked.								
																									1										N	X					Y												
Longville	Longville	N	X			N	Y							X	X							X		1350 W. Cty. Rd. 5								2			Y			X			Y			Class B foam not used in training, site not ranked.								
Lonsdale	Lonsdale	N	X			N	Y							X	X				X			X		Haven't trained with in 14 years.								7			Y	X							Foam never or rarely used in training, no foam training in last 14 years.	Foam not used in training, site not ranked.								
Loretto	Loretto	N	X			N	Y					X				X			X					259 Medina St. N.	1										Y	X								8	2	1	1	0	1	5	18
Lutsen	Lutsen	N			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.								
																										1									Y	X					N	Y												
Luverne	Luverne	N	X			N	Y			X						X						X		Tree dump 1/2 mile south of city on Hwy 75, east side of road.								12			Y		X				Y	Y	Not sure current Class B foam brand, used to use 3M Class B foam. City picks up dirt/gravel at training site with payloader, dispose at dump.	8	6	3	3	0	3	5	28
Lyle	Lyle	Y		X		N	Y					X			X				X					Grove St. & 2nd Av.								2			Y	X					Y			Class A foam use only, site not ranked.								

2233.0036

STATE_02826848

TABLE 2

ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES

October 15, 2008

Department	Location	Site in Source Water Assessment Area?	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: 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 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; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	WPA/SWA: site in WPA and/or SWA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
																									1									Y	X																
																											12							Y	X						Y		Class A foam type									
Madelia	Madelia	N		X		N	Y					X			X							X		Various								12			Y			X			Y		Stevens.	Multiple training locations, site not ranked.								
Madison Lake	Madison Lake	Y		X		Y							X		X							X		Tomahawk Lane								12			Y	X					Y	Y		Class A foam use only, site not ranked.								
																								Live fire training	7												X																			
Mahtomedi	Mahtomedi	N			X	Y	Y		X						X							X		burns.								7			Y		X							Multiple training locations, site not ranked.								
Mahtowa	Mahtowa	N	X			Y	N																	Not applicable								2			N	X					Y			Class A foam use only, site not ranked.								
																								Fire hall lawn, 6861																															
Makinen	Makinen	N	X			N	Y					X			X							X		Wilson Rd.								2			Y	X					Y	Y		Class A foam use only, site not ranked.								
																																													Train at various									
Manchester	Manchester	Y				N	N																	locations with water								12			N	X					Y	Y	and dish soap.	Class A foam use only, site not ranked.								
																									1											Y	X					N	Y									
Markato	Mankato	N	X			N	Y					X					X		X					Fire Sta. #1, 300		7									Y	X					Y		AFFF-AR type									
																								Madison Av.								2			Y	X					Y		Angus AlcoSeal.	8	4	1	0	5	1	2	21
																										7									N	X																
																																5			N			X					AFFF-AR type									
																																	7		Y			X					Angus Tridex; Train									
																								Station 5, 6900																				Foam type Angus									
																								Lewndale Ln;																				Trainol. Use more									
																								Station 2, 13450																				than 100 gallons per									
Maple Grove	Maple Grove	N	X			N	Y					X						X				X		Maple Knoll Way								8		Y			X					training event.	Class B foam not used in training, site not ranked.								
																								One time training at																															
Maple Hill	Grand Marais	N	X			N	Y							X	X							X		Gunflint Trail fire								2			Y	X						Y	Used foam in									
																								hall.																				training one time.	Class A foam use only, site not ranked.								
																									12											Y	X					Y	N									
																																12			Y	X					Y	N									
																																												Use Class A and									
																																												Class B foam sticks,									
																								Street in front of																				not sure brand.									
Mapleton	Mapleton	Y	X			N	Y						X		X				X					fire hall, 103 3rd Av NE										12	Y	X					N	Y	Used to use POK									
																								foam system.	0	2	1	0	2	1	5	11
Maplewood	Maplewood	Y	X			N	Y					Y			X				X			X		Various								1			Y		X				Y	Y		Class A foam use only, site not ranked.								
Marble	Marble	N	X			Y	N																	Not applicable								2			N	X								Class A foam use only, site not ranked.								
																									1											N	X																
																																12			N		X				Y	Y									
Marine On St Croix	Marine On St Croix	N	X			N	Y					X					X		X					201 Judd Street									7		Y	X					Y	Y		Class B foam not used in training, site not ranked.								
																										1							2			N						N										
																								Marshall Merit																				Training foam type									
																								Center, City Rd 33																				Trainol. Use of 3M									
Marshall	Marshall	N		X		Y	Y			X					X							X		(1001 W. Erie Rd.)									12		Y		X						foam in training not									
																																												specified.	$8^{(a)}$	6	3	3	0	1	0	21
Mayer	Mayer	N	X			N	Y					X			X							X		House burns								1			Y	X								Class A foam use only, site not ranked.								
																								Mable St. &								2			Y						Y		Foam quantities not									
Maynard	Marnard	Y	X			N	Y						X		X				X					Sherman										9	Y						N	Y	specified.	0	2	1	1	0	3	5	12
																									11											Y						Y										
Mazeppa	Mazeppa	Y	X			N	Y					X			X							X		Various								11			Y									Multiple training locations, site not ranked.								
																								Fire hall parking lot,																															
McDavitt	Zim	N	X			Y	Y						X		X							X		9042 Hwy 27, Zim.								12			Y	X					N			Class A foam use only, site not ranked.								

2233.0037

STATE_02826849

TABLE 2
ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES
October 15, 2008

Department	Location	Site in Source Water Assessment Area?	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: (1) 3M brand foam; (2) Ansul Silv-ex; (3) Ansulite; (4) Other/ unspecified Ansul foam product; (5) Angus Forexpan S; (6) Angus Hi-Compat; (7) Other/unspecified Angus foam product; (8) National Foam product; (9) Chemguard foam product; (10) HCT F-500 A-B; (11) Pyrocom Aqua Sticks; (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-FFFP	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 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; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	WPA/SWA: site in WPA and/or SWA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
Meadowlands	Meadowlands	N			X	Y	Y			X					X							X		Fire Hall at 9855 Hwy 133, and Hwy 133 & Hwy 7							2			Y		X				Y	Y		Class A foam use only, site not ranked.							
Medford	Medford	N	X			N	Y							X	X							X	Fire hall parking lot.	7							12		N Y	X X					Y Y	Y Y	Class B foam on hand, haven't used in more than 15 years.	Class B foam not used in training, site not ranked.							
Medicine Lake	Medicine Lake	N	X			Y	N																Not applicable							2			N	X							Class A foam use only, site not ranked.							
Melrose	Melrose	N	X			Y	N																Not applicable							4			N			X			Y	Y		Class A foam use only, site not ranked.							
Menagha	Menagha	Y			X	N	Y					X			X							X	Various house burns.							12			Y		X				Y	Y	Not sure of foam brand.	Class A foam use only, site not ranked.							
Mendota Heights	Mendota Heights	N	X			N	Y						X			X			X				Usually the fire hall parking lot.		1					7			N N		X							Class B foam not used in training, site not ranked.							
Mentor	Mentor	N	X			N	Y				X				X							X	Various		9					9			Y Y	X X							Multiple training locations, site not ranked.							
Middle River	Middle River	Y			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.							
Milaca	Milaca	N		X		N	Y					X			X							X	Various		3					2			Y	X		X			Y		Class E AR-AFFF (historic) use in training not specified.	Multiple training locations, site not ranked.							
Milan	Milan	N	X			N	Y						X		X							X	Not specified							12			Y	X					N	Y	Class A foam type not specified.	Class A foam use only, site not ranked.							
Minneapolis	Minneapolis	N	X			N	Y					X			X							X	25 37th Ave. NE	1 8	 4 					 4			Y N Y	X X X					N Y Y	Y 		8	2	3	1	4	1	0	19
Minneota	Minneota	N	X			Y	N																Not applicable	8						2			N N	Y X					Y Y	Y Y		Foam not used in training, site not ranked.							
Montevideo	Montevideo	N	X			N	Y							X		X						X	Fire station, 103 Canton Av.		1 1 3					 2			Y Y N Y	X X X X					Y Y Y Y	Y Y N Y		8	2	3	3	0	1	0	17
Montgomery	Montgomery	N	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.							
Monticello	Monticello	N		X		N	Y				X				X				X			X	Various	12						6			N Y		X X				Y Y	Y Y	Class E foam type ProTec sticks.	Class B foam not used in training, multiple training sites, site not ranked.							
Montrose	Montrose	Y	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	N	X			N	Y					X			X							X	Moorhead Youth Hockey Arena, ditch west of arena. 707 SE Main Av.	1 	 8 					 2			N N Y	X X X					N Y Y	Y 		Class B foams not used in training, site not ranked.							
Moose Lake	Moose Lake	N		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.							

2233.0038

STATE_02826850

TABLE 2
ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES
October 15, 2008

Department	Location	Site in Source Water Assessment Area?	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: (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 Sticks; (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 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; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	WPA/SWA: site in WPA and/or SWA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
																									3										N	X					Y	N										
																															2			N		X				Y	N	Bought truck and foam stock from Florida department few years ago, never have used								
Mora	Mora	Y	X			N	N																	Not applicable							8			N	X					N	Y	Class E foam.	Foam not used in training, site not ranked.								
Morgan	Morgan	N	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	N	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	N	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.								
Mound	Mound	N	X			N	Y					X			X								X	Various - live burn training		3					2			N	X					Y			Class B foam not used in training, multiple training sites, site not ranked.								
																										9								N	X																
																										8								N	X																
Mountain Iron	Mountain Iron	Y	X			Y	Y				X				X								X	Empty lot across from 8866 Slate St.		3					2			N	X					Y			Class B foam not used in training, site not ranked.								
Myrtle	Myrtle	Y	X			N	Y					X			X								X	Myrtle ballfield																		Foam type and quantity not specified.	8[3]	2	1	0	5	1	5	22
Nashwauk	Nashwauk	N	X			N	N																	Not applicable							2			N			X			Y			Class A foam use only, site not ranked.								
Nassau	Nassau	N	X			N	Y					X			X								X	Street in front of fire hall, 207 4th St.							2			Y	X					Y	N		Class A foam use only, site not ranked.								
Nerstrand	Nerstrand	Y	X			N	Y						X			X							X	Various houses.							7		1	N	X					N	Y		Multiple training locations, site not ranked.								
Nevis	Nevis	N		X		Y	Y				X				X								X	104 Miller St.							2			Y		X							Class A foam use only, site not ranked.								
																									1									N	X																
																										3								N	X																
New Brighton	New Brighton	Y			X	N	N																	Not applicable							4			N			X			Y	Y		Foam not used in training, site not ranked.								
New Germany	New Germany	Y	X			N	Y					X			X								X	Parking lot by city shed, State Av. & Park St.							12			Y	X					Y	Y		Class A foam use only, site not ranked.								
New Prague	New Prague	N			X	N	Y				X						X		X					11th Av. NW & 2nd St. NW and Columbus Av. N. & 12th St. NE							6			Y			X			Y	Y		Class A foam use only, site not ranked.								
New Richland	New Richland	Y	X			N	Y						X		X								X	Grassy lot on east side of fire hall, 203 Broadway Av. N.; closest cross street 1st St. NE							2			Y	X					Y	Y		Class A foam use only, site not ranked.								
																										9																										
New Ulm	New Ulm	N	X			N	N																	Not applicable		3					2			N								Foam quantity not specified.	Foam not used in training, site not ranked.								

2233.0039

STATE_02826851

TABLE 2
ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES
October 15, 2008

| Department | Location | Site in Source Water Assessment Area? | 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: (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 Sticks | (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 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; Transition=4; Covered=2; No=0 | Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0 | WPA/SWA: site in WPA and/or SWA=5; within 1/4 mile=4; within 1 mile=2; No=0 | OVERALL SITE RANKING |
|---|---|---

TABLE 2
ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES
October 15, 2008

Department	Location	Site in Source Water Assessment Area?	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: 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 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; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	WPA/SWA: site in WPA and/or SWA=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 Sticks (12) Other or unspecified foam product																																				
Oak Grove	Oak Grove	N		X		N	Y					X					X						19900 Nightengala St. NW, city hall parking lot, water runs into soccer fields.								7			Y				X		Y	Y	Foam type Angus Fire Power	Class A foam use only, site not ranked.							
Oakdale	Oakdale	N			X	N	Y				X				X				X			X	Fire stations at 6633 15th St. N. and 5000 Hadley Ave. N.		7						7			N	X			X		Y	Y		Class B foam not used in training, site not ranked.							
Odessa	Ocessa	N	X			N	Y						X		X							X	City limits								2			Y	X								Class A foam use only, site not ranked.							
Odin	Ocin	N	X			N	Y					X				X						X	111 No. 1st St.								2			Y	X								Class A foam use only, site not ranked.							
Ogilvie	Ogilvie	Y		X		Y	Y		X						X							X	Fire hall								2			Y			X			Y			Class A foam use only, site not ranked.							
Okabena	Oklee	N	X			N	Y						X		X							X	Not specified								2			Y						Y	Y	Foam cuantity not specified.	Class A foam use only, site not ranked.							
Olivia	Olivia	N		X		Y	Y				X				X							X	Various		3						7			Y	X					Y	Y		Multiple training locations, site not ranked.							
Ortonville	Ortonville	N	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.							
Osakis	Osakis	N	X			N	Y							X	X							X	Various sites, live-fire training ony.		12						2			N	X					Y	Y	Have Class B foam in old pumper truck, haven't used in many years; don't know brand.	Class B foam not used in training, multiple training locations, site not ranked.							
Ottertail	Ottertail	N	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.							
Owatonna	Owatonna	N	X			N	Y						X		X									1							1			N			X			Y	Y	Class B foam rarely used.	Class B foam not used in training, site not ranked.							
Palisade	Palisade	N	X			N	Y				X				X							X	Fire hall, 49062 Nature Av.								2			Y	X								Class A foam use only, site not ranked.							
Palo Regional	Aurora	N			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	N	X			Y	Y					X			X							X	Not specified								2			Y		X							Class A foam use only, site not ranked.							
Paynesville	Paynesville	N	X			N	Y						X		X							X	City airport	11	9						2				X							AFFF-AR type Chemguard 3%. Foam used in training not specified.	0	2	3	3	0	3	5	16
Pelican Rapids	Pelican Rapids	N	X			N	Y						X		X				X			X	2nd Av. NW & 4th St	12							2			Y	X					Y		AFFF type US Foam First Strike	0	2	3	3	0	3	5	16
Pennock	Pennock	N	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	N	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.							

2233.0041

STATE_02826853

TABLE 2
ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES
October 15, 2008

Department	Location	Site in Source Water Assessment Area?	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: Class B AFFF	Class B AR-AFFF	Class B Protein	Class B FP	Class B FFFP	Class B AR-FFFP	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 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; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	WPA/SWA: site in WPA and/or SWA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
																									12									N								Class B AR AFFF foam type not specified.								
Perch Lake	Cloquet	N	X			N	Y					X			X							X		2779 Big Lake Rd.								2		Y	X							Class B foam not used in training, site not ranked.								
																									12									Y		X				Y	Y								
																								Near parking entrance of Prairie Winds Middle								12		Y		X				Y	Y	Class A and B foam brands vary. Also use POK system								
Perham	Perham	N		X		N	Y				X				X				X			X		School									12	Y			X			Y		foam sticks.	6[a]	4	1	1	0	3	5	22
Pickwick	Winona	N			X	Y	Y				X				X							X		Green Terrace Trailer Park								2		Y	X					Y		Class A foam use only, site not ranked.								
																								Intersection of 25	1									Y								Quantity 3M foam								
Pierz	Pierz	Y	X			N	Y						X		X							X		and 27, Pierz								2		N		X						not specified.	8	2	3	3	0	1	5	22
Pillager	Pillager	N	X			N	Y							X	X							X		Various								2		Y	X							Class A foam use only, site not ranked.								
																																	2		N			X												
																																	6		N			X												
Pine City	Pine City	Y	X			N	Y					X			X							X		Not specified									4	Y	X							Class A foam and training foam use only, site not ranked.								
																								Fair grounds and		3														Y	Y								
																								school grounds 1st Street, Pine																		Use of Class B AR-AFFF in training not								
Pine River	Pine River	N		X		N	Y							X			X					X		River								2		Y			X			Y	Y	specified.	0	2	3	3	0	1	5	13
																								118 2nd Av NE and																										
Pipestone	Pipestone	Y	X			N	Y						X		X				X					1400 Block Apache Dr.								2		Y		X						Class A foam use only, site not ranked.								
Plainview	Plainview	Y				N	Y			X					X				X					Various								2		Y	X							Class A foam use only, site not ranked.								
Plato	Plato	N			X	N	Y					X			X							X		Various								6		Y	X					Y	Y	Class A foam use only, site not ranked.								
																								Three fire stations: 13250 Cty Rd 6, 3300 Dunkirk Ln, 12000 Old Rockford	4									Y		X				Y		Training with foam just to learn hose connections, set-up; little free flow of								
Plymouth	Plymouth	N				N	Y					X			X				X					Rd								4		N			X			Y		foam.	0	2	3	3	2	3	5	18
																								Fire hall, 301 Lone								2		Y	X					Y									
Porter	Porter	N	X			N	Y					X			X				X					Tree Street		9								Y	X					Y			0	4	3	1	0	1	0	9
																								Fillmore County		1								Y	X					Y									
																								Fairgrounds Fillmore St. & Cty.								2		N	X					N	Y	Class A foam type								
Preston	Preston	N	X			N	Y							X		X						X		Hwy. 12 Preston								12		Y	X					N	Y	Clarey's First Strike.	8	2	3	3	5	3	4	28
Prinsburg	Prinsburg	N	X			N	Y					X			X							X		Various								2		Y	X							Siphon system	Class A foam use only, site not ranked.								
																								NW corner Eagle Creek Av & Arcadia		1								N	X														
Prior Lake	Prior Lake	N		X		N	Y						X				X		X	X		X		Av (spring 2007)								9		Y			X					Class B foam not used in training, site not ranked.								
																									4									N	X							AFFF type Ansul Jet-X. Foam used in								
Proctor	Proctor	N	X			Y	Y						X		X							X		Not specified								2		N		X						training not specified.	Training site not specified, site not ranked.								
																										7								N								AFFF-AR type Angus Tridol, use "minimal", "Can't remember the last								
Ramsey	Ramsey	N		X		N	Y							X	X							X		Various								6		Y			X			Y		training."	Class B foam not used in training, various training locations, site not ranked.								

2233.0042

STATE_02826854

TABLE 2
ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES
October 15, 2008

Department	Location	Site in Source Water Assessment Area?	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: (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 Sticks; (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 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; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	WPA/SWA: site in WPA and/or SWA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
																																		N					Y												
Randall	Randall	N		X		N	Y					X			X							X		Let across street from fire station (105 Maplewood Dr)	11							11			Y	X					Y												
																										1																								
Randolph-Hampton	Randolph	N	X			N	Y					X			X							X		Various live burns.								2															Foam cuantities not specified, foam used in training not specified.	Multiple training locations, site not ranked.							
																																		2			N	X				Y													
Red Wing	Red Wing	N			X	N	N																	Not applicable									7	N	X				Y							Foam not used in training, site not ranked.							
Redwood Falls	Redwood Falls	N	X			N	Y			X						X						X		Redwood County								2			Y	X											Class A foam use only, site not ranked.							
Remer	Remer	N	X			N	Y					X			X							X		316 Main St. E								2			Y			X								Class A foam use only, site not ranked.							
																								Main St. & Bryant Av.; 2nd St. &																													
Renville	Renville	N		X		Y	Y				X				X				X					*Bryant Av.*								2			Y	X					Y	Y					Class A foam use only, site not ranked.							
																									4										N	X					Y	N	Historical use of 3M								
																									1										Y						N	Y	Class B AFFF in								
																								Richfield ice arena,								2			N			X			Y	Y	training amount								
Richfield	Richfield	N		X		N	Y						X					X	X			X		636 E. 66th St.									8		Y			X			Y	Y	unknown.	8	6	3	3	2	3	5	30
																									3										Y				X			Y	Y								
																								Industrial lot, 3 lots																													
																								west of Main &																													
																								151st Av, on the								2			N			X			Y	Y	Just started using								
Richmond	Richmond	N		X		N	Y					X			X							X	X	north side of Main.									10	N	X							Y	N	HCT F-500 A-B foam.	0	2	3	3	0	3	4	15
																									1										Y	X					N	Y								
																										1									Y	X					N	Y								
																																	2		Y	X					Y													
Robbinsdale	Robbinsdale	N		X		N	Y						X			X			X					Various									8		Y	X					Y						Multiple training locations, site not ranked.							
																									1										Y	X														
																																	1		Y	X														
Rochester	Rochester	N	X			N	Y					X				X						X		2021 41st St. NW									10	Y				X								8	2	1	1	5	3	5	25
																										4									N	X					Y	N	Class A foam only								
																																	2		Y	X					N	Y	used for training;								
																								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: 1676																												600 Gallons HCT F-500 used annually. All fire stations located in or adjacent to Wellhead Protection							
Rochester	Rochester	N	X			N	Y					X			X							X		41st St. NW									10	N					X	Y	Y	Areas.	Class B foams not used in training, site not ranked.							
																										7									N	X					Y	Y	Have Class B foam								
																								Various locations,																													
																								live burn training																													
Rogers	Rogers	N					Y							X									X	only.								6		Y							Y	Y	on hand, can't remember last time it was used. Trucks carry Class A foam.	Class B foam not used in training, various training locations, site not ranked.							
Rollingstone	Rollingstone	N	X			N	Y					X				X						X		111 Broadway								7		Y	X											Class A foam use only, site not ranked.							
Rose Creek	Rose Creek	N	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.							

2233.0043

STATE_02826855

TABLE 2
ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES
October 15, 2008

Department	Location	Site in Source Water Assessment Area?	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: (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 Sticks; (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 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; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	WPA/SWA: site in WPA and/or SWA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
Roseau	Roseau	N	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	N	X			Y	Y					X			X				X	X		X		14700 Shannon Pkwy	12							12			Y		X				N	Y	Just switched to HCT F-500 foam, historic use of AFFF and training foam. Historic training with AFFF, likely 3M foam at some point in last 25 years.	8	2	1	1	2	3	2	19
Roseville	Roseville	N				N	N																	Not applicable																			Foam for fires only; foam type and quantity not specified.	Foam not used in training, site not ranked.							
Royalton	Royalton	N	X			N	Y					X			X							X		Not specified							7			N	X					N		Foam cuantity not specified.	Class A foam use only, site not ranked.							
Rush City	Rush City	N	X			N	N																	Fire Station, 325 W. 5th St.	7						7			N			X					Train with Dreft laundry soap.	Foam not used in training, site not ranked.							
Rushford	Rushford	N	X			Y	Y					X			X							X		Open lot in industrial park cul-de-sac on Enterprise Drive							2		12	Y	X		X				Y	Y		Class A foam use only, site not ranked.							
Rushmore	Rushmore	N	X			N	Y				X				X							X		City dump							2			Y	X								Class A foam use only, site not ranked.							
Russell	Russell	N		X		N	N																	Not applicable										N								Foam type and quantity not specified	Foam not used in training, site not ranked.							
Sacred Heart	Sacred Heart	N	X			Y	N																	Not applicable							2			N	X					Y			Class A foam use only, site not ranked.							
Sandstone	Sandstone	N		X		N	Y					X			X							X		Fire hall, 114 Main Street							2			Y			X						Class A foam use only, site not ranked.							
Sartell-LeSeuk	Sartell	N	X			N	Y					X			X							X		Fire hall, 220 4th Ave. S.		7					7			N			X					AFFF-AR type Angus Alco Seal 3%-6%, amount used "not much"; Class AB Hi-Ex Angus Foam Liquid.Train with Dawn soap, haven't trained with regular foam in years.	0	2	3	3	0	3	4	15
Sauk Centre	Sauk Centre	N	X			Y	N																	Not applicable							2			N		X							Class A foam use only, site not ranked.							
Sauk Rapids	Sauk Rapids	N	X			N	N																	Dawn dish soap used in treining 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	N	X			N	Y					X				X						X		Fire hall, 3518 320th St.	12						12			N	X		X					Foam types not specified.	Class B foam not used in training, site not ranked.							

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STATE_02826856

TABLE 2

ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES

October 15, 2008

Department	Location	Site in Source Water Assessment Area?	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: (1) 3M brand foam; (2) Ansul Silv-ex; (3) Ansulite; (4) Other/ unspecified Ansul foam product; (5) Angus Forexpan S; (6) Angus Hi-Compat; (7) Other/unspecified Angus foam product; (8) National Foam product; (9) Chemguard foam product; (10) HCT F-500 A-B; (11) Pyrocom Aqua Sticks; (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 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; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	WPA/SWA: site in WPA and/or SWA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
Scanlon	Cloquet	N	X			N	N								X							X		One fima training with new truck								2			N	X					Y	Y		Class A foam use only, site not ranked.								
Schroeder	Schroeder	N		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	N	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.								
Shafer	Shafer	Y	X			N	Y					X			X									Various	4							2			Y	X					Y	Y		Multiple training locations, site not ranked.								
Shakopee	Shakopee	N		X		N	Y					X			X				X					Fire station, 2700 Vierling Dr. E.	7							7			N	Y	X		X		Y	Y	Train with Class A foam only.	Class B foam not used in training, site not ranked.								
Sherburn	Sherburn	Y	X			N	Y				X				X				X					Mein & 2nd St. E.								2			Y	X					Y	Y		Class A foam use only, site not ranked.								
Silica Area	Hibbing	N	X			N	N																	Not applicable								2			N								Foam use "Very little".	Class A foam use only, site not ranked.								
Silver Bay	Silver Bay	N	X			Y	Y							X	X				X					Front of fire hall (87 Banks Blvd)								6			N		X							Class A foam use only, site not ranked.								
Silver Lake	Silver Lake	Y	X			N	Y					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	4	15
Sleepy Eye	Sleepy Eye	N	X			Y	N																	Not applicable		1						2			N		X				Y	Y		Foam not used in training, site not ranked.								
Solway	Solway	N	X			N	Y						X		X							X		Ditch by fire hall, 137 2nd St. N/W								2			Y								Foam cuantity not specified.	Class A foam use only, site not ranked.								
Solway Twp	Cloquet	N			X	Y	Y			X					X							X		Fire Station, 4027 Munger Shew Rd., Cloquet								9			Y				X					Class A foam use only, site not ranked.								
South Bend Twp	Mankato	N	X			N	N																	Not applicable	3	3						2			N	X	N	X	X					Foam not used in training, site not ranked.								
South Haven	South Haven	N			X	Y	Y						X		X							X		Train with other depts.								6			Y								Foam cuantity not specified.	Class A foam use only, site not ranked.								
Spicer	Spicer	N	X			Y	N																	Not applicable								2			N								Have not yet trained with foam.	Class A foam use only, site not ranked.								
Spring Grove	Spring Grove	N	X			Y	Y					X			X							X		Various								7			Y	X					Y	Y		Class A foam use only, site not ranked.								
SBM (Spring Lake Park, Blaine Mounds View) Fire Dept.	Spring Lake Park	N			X	N	Y							X	X							X		North Metro Fire Training Center, Fridley (300 71st Ave.)								4			Y				X				Train occasionally with new equipment.	Class A foam use only, site not ranked.								
Spring Valley	Spring Valley	Y		X		Y	Y							X	X									Not specified								2											Annual foam use not specified.	Class A foam use only, site not ranked.								
St. Anthony	St. Anthony	N	X			N	Y						X		X				X			X		2600 Block of Anthony Ln. S.		3						2			N	X					Y	Y		Class B foam not used in training, site not ranked.								
St. Bonifacius	St. Bonifacius	N			X	Y	Y				X				X							X		Not specified								6			Y	X					Y	Y		Class A foam use only, site not ranked.								
St. Charles	St. Charles	N	X			Y	Y						X		X							X		Winona County Fairgrounds in St. Charles, and the St. Charles City Shop								7			Y	X					Y			Class A foam use only, site not ranked.								

2233.0045

STATE_02826857

TABLE 2
ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES
October 15, 2008

Department	Location	Site in Source Water Assessment Area?	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: 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 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; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	WPA/SWA: site in WPA and/or SWA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
St. Clair	St. Clair	N	X			N	Y				X						X		X					City of St. Clair		9								Y		X					Foam type and quantity not specified.	8[a]	6	3	1	2	3	0	23
St. Cloud	St. Cloud	Y	X			N	Y					X						X				X	Open field near Sta. 2, 700 41st Av N., and Sta. 4, 1550 45th Av SE								9			Y			X				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	16
St. Francis	St. Francis	N	X			N	Y					X			X							X	City parking lot								7			Y			X			Y	Y	Training site not mappable, site not ranked.								
St. Hilaire	St. Hilaire	N	X			N	Y						X		X							X	Various									12		Y	X					Y	Y	No Class B foam use now or in the past	Class A foam use only, site not ranked.								
St. James	St. James	N	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	Y	X			N	Y					X			X				X				Parking lot, east side of campus, Science Lot #2.	1							12			N	X								Class B foam not used in training, site not ranked.								
St. Joseph	St. Joseph	Y		X		N	Y					X			X							X	Various								7			Y		X						Class A foam use only, site not ranked.								
St. Louis Park	St. Louis Park	N			X	N	N																Not applicable	3							2			N								Foam not used in training, site not ranked.								
St. Martin	St. Martin	N	X			N	Y							X	X							X	Fire hall park lot (West Street).								2			N	X								Class A foam use only, site not ranked.								
St. Paul	St. Paul	N	X			N	Y					X					X					X	1683 Energy Park Dr., St. Paul	1						12	1		3	Y Y N N	X X X X	X				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	N	X			N	Y					X					X				X		Marathon Refinery train grounds 100 3rd Av., St. Paul Park	1									Y	X					Y	Y	Training at Marathon Petrolieum Refinery.	Training at off-site facility, site not ranked.								
St. Peter	St. Peter	N																					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	N			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	Y		X		N	Y					X			X							X	30795 Forest Blvd., east side of fire station, Stacy								6			Y			X			Y			Class A foam use only, site not ranked.								
Staples	Staples	N	X			N	Y					X			X							X	Various lots, fields								2			Y	X					Y			Class A foam use only, site not ranked.								

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STATE_02826858

TABLE 2
ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES
October 15, 2008

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																									(1) 3M brand foam (2) Ansul Silv-ex (3) Ansulite (4) Other/ unspecified Ansul foam product (5) Angus Forexpan S (6) Angus Hi-Compat (7) Other/unspecified Angus foam product (8) National Foam product: (9) Chemguard foam product: (10) HCT F-500 A-B (11) Pyrocom Aqua Sticks (12) Other or unspecified foam product																																					
Stephen	Stephen	N		X		N						X				X				X		X		Various	12							9			Y								Class B AFFF type Team T233; use in training not specified. Annual foam usage not specified.	Multiple training locates, site not ranked.							
Stewart	Stewart	N			X	N	Y				X					X			X			X	Prior & Martha St.; Hall & Winona Sts.	8	3						2			N N Y	X X		X					AFFF type National Foam Universal Gold.	Class B foams not used in training, site not ranked.							
Stewartville	Stewartville	Y	X			N	N																Not applicable	1	1									N N	X X							Foam not used in training, site not ranked.							
Stillwater	Stillwater	N			X	Y	Y			X					X				X			X	Stillwater fire station, 216 N. 4th St.; Old public works, 216 N. 5th St.; and New public works 3325 Boutwell Rd		3						2			N Y	X		X			Y Y		Class B foam not used in training, site not ranked.							
Sturgeon Lake	Sturgeon Lake	N	X			N	Y					X			X							X	Market Street, outskirts of Sturgeon Lake Park.								2			Y	X					Y		Historic foam use unknown.	Class A foam use only, site not ranked.							
Swanville	Swanville	Y	X			N	Y					X			X							X	Various								2			Y	X					Y			Class A foam use only, site not ranked.							
Taconite	Taconite	N	X			N	Y							X	X							X	Dawn dish soap used in training at various locations.								12			N								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	N		X		N	Y					X					X					X	Behind fire hall, 637 First Street		7						7			N Y	X	X				Y Y			Class B foam not used in training, site not ranked.							
Thief River Falls	Thief River Falls	N	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	N		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	N		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	Y	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	N			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	N			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

2233.0047

STATE_02826859

TABLE 2
ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES
October 15, 2008

Department	Location	Site in Source Water Assessment Area?	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: (1) 3M brand foam; (2) Ansul Silv-ex; (3) Ansulite; (4) Other/ unspecified Ansul foam product; (5) Angus Forexpan S; (6) Angus Hi-Compat; (7) Other/unspecified Angus foam product; (8) National Foam product; (9) Chemguard foam product; (10) HCT F-500 A-B; (11) Pyrocom Aqua Sticks; (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 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; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	WPA/SWA: site in WPA and/or SWA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
Underwood	Underwood	N		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	N		X		Y	Y				X				X				X					110 W. Elm Av.							12			Y	X									Foam brand Royal Chemical Co.	0	4	3	3	0	3	2	15
Vacheis Heights	Vadnais Heights	N			X	N	Y					X			X				X			X		3595 Arcade St. south perk lot. fire station	1						2			N	X					Y	Y																	
Vergas	Vergas	N			X	N	Y							X	X							X		Various locations	3						7			Y	X					Y	Y																	
Vermillion Lake	Tower	N	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					Y	Y																	
Verndale	Verndale	N	X			N	Y					X			X				X					Brown St. & 1st Av.							2			Y		X				Y																	
Victoria	Victoria	N	X			N	Y					X				X						X		Various	3									N						Y	N															
																									1									N						Y	Y															
																																2			Y						Y	Y	Annual foam usage varies.								
																																	4		Y						Y	N									
Villard	Villard	N		X		N	N																	Not applicable							12			N	X							Foam type Royal Chemical.	Foam not used in training, site not ranked.							
Virgina	Virgina	N		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															
Waconia	Waconia	N			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															
Waite Park	Waite Park	N	X			N	Y					X			X				X			X		18 19th 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	Y	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	5	16
Wanda	Wanda	N	X			N	Y					X			X							X		Front of fire hall							2			Y	X								Class A foam use only, site not ranked.							
Warbe-Feeley-Sago	Warba	N			X	N	N																	Not applicable							2			N	X					Y	Y		Class A foam use only, site not ranked.							
																										7								N	X					N	Y									
																																2		Y	X					Y		AFFF-AR type Angus Tridol.							
Warren	Warren	N	X			N	Y					X					X					X		221 W. Johnson								12		Y	X					Y			Class B foam not used in training, site not ranked.							
																											12								Y	X															
Waseca	Waseca	Y		X		N	Y					X					X					X		Waseca Cty Feirground. area of grand stand.								12		Y	X							Foam brand not specified.	0	4	1	1	2	1	4	13

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STATE_02826860

TABLE 2
ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES
October 15, 2008

Department	Location	Site in Source Water Assessment Area?	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: Class B AFFF	Class B AR-AFFF	Class B Protein	Class B FP	Class B FFFP	Class B AR-FFFP	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 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=5	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	WPA/SWA: site in WPA and/or SWA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
																									1									N	X					Y									
																										7								N	X					Y									
Watertown	Watertown	N		X			N	Y						X		X								Various								7			Y			X			Y			Class B foam not used in training, multiple training locatins, site not ranked.								
Watkins	Watkins	N	X				N	Y																Not applicable								2			N		X							Class A foam use only, site not ranked.								
																																2			Y	X																
Wayzata	Wayzata	Y				X	N	Y					X		X									Various houses										1	N								Class B foam not used in training, multiple training locatins, site not ranked.								
Welcome	Welcome	Y		X			N	Y					X			X								NE corner of Dugan St. S. and Mill St.				8							Y	X					Y			0	2	1	3	0	3	5	14
Wells	Wells	Y	X					Y					X			X			X					Various	1										Y	X					Y	Y		Multiple training locations, site not ranked.								
																									3										Y	X					Y	Y									
West Concord	West Concord	Y	X				N	Y					X		X				X			X		Various								2			Y		X				Y	Y		Multiple training locations, site not ranked.								
																										4								N		X				Y										
West Metro Fire District	New Hope	N	X				N	Y					X				X		X					4251 Xylon Av. N.								4			N		X				Y			Class B foam not used in training, site not ranked.								
																																12			Y		X				Y									
Wheaton	Wheaton	N	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.								
White Bear Lake	White Bear Lake	Y				X	Y	Y			X				X				X					9th St. & White Bear Pkwy.	7							7			N									Class B foam not used in training, site not ranked.								
																																7			Y	X																
Williams	Williams	N		X			N	Y			X				X				X					212 Main St.								2			Y		X						Class A foam use only, site not ranked.								
																									1										N	X					N	Y									
Willmar	Willmar	N	X				N	Y					X											Fire hall, 515 SW 2nd St.		1						6			N	X					N	Y		Class B foams not used in training, site not ranked.								
																																6			Y			X			Y									
Willow River	Willow River	N			X		N	N																Not applicable								2			N	X					Y			Class A foam use only, site not ranked.								
Wilmont	Wilmont	N	X				N	N																Not applicable	12							12			N								Foam brands, annual usage not specified	Foam not used in training, site not ranked.								
Wilson	Winona	N		X			N	Y				X			X							X		Not specified								2			Y	X								Class A foam use only, site not ranked.								
																									12										N	X					Y		Class B ATC on hand, have never used.									
Winnebago	Winnebago	Y	X				N	Y						X	X								X	140 Main St. S.								12			Y	X					Y			Class B foam not used in training, site not ranked.								
																										3								Y			X			Y									
Winona	Winona	N	X				N	Y					X		X				X			X		Various-- Central Fire Sta., 451 E. 3rd; and Technical College, 1250 Homer Rd., Winona								2			N	X					Y		3rd Street training site in Wellhead Protection Area.	0	2	3	3	5	3	5	19
																																6			N	X																
Winsted	Winsted	Y		X			N	Y						X	X								X	Baker Av & 2nd St. S.								11			Y	X								Class A foam use only, site not ranked.								
																										8								N	X					Y	Y									
Winthrop	Winthrop	N	X				N	Y				X			X							X		Paved parking lot at fire hall, 3 N. Main St.								2			Y	X					Y	Y	AR-AFFF on hand due to nearby ethanol plant, haven't used it yet.	Class B foam not used in training, site not ranked.								
Wolf Lake	Wolf Lake	N		X			N	Y					X		X								X	233 N. Menninen Av.; 235 W. Johnson St.								2			Y		X				Y	Y		Class A foam use only, site not ranked.								
																									3										Y	X					Y	Y									
Wolverton	Wolverton	N		X			N	Y					X		X								X	Gravel road in front of fire hall, 301 Hwy 75 in Wolverton								2			Y	X					Y	Y	No historical use of other foam.	0	2	3	1	0	0	0	7

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STATE_02826861

TABLE 2
ALL MUNICIPAL FIRE DEPARTMENT QUESTIONNAIRE RESPONSES
October 15, 2008

Department	Location	Site in Source Water Assessment Area?	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 (1) 3M brand foam (2) Ansul Silv-ex (3) Ansulite (4) Other/ unspecified Ansul foam product (5) Angus Forexpan S (6) Angus Hi-Compat (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 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; Transition=4; Covered=2; No=0	Water Wells Nearby: within 1/4 mile=3; within 1 mile=1; No=0	WPA/SWA: site in WPA and/or SWA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
																									7								N	X					Y	Y	Used 3M foam through 1998, switched to Angus and added a training foam.								
																									1								Y	X					N	Y								
																														6			N				X			Y	Y								
Woodbury	Woodbury	N				Y	Y				X				X				X			X		Various								7			Y	X					Y	Y		Multiple training locations, site not ranked.							
Wrenshall	Wrenshall	N		X		N	Y					X			X							X		Not specified							9			Y	X								Class A foam use only, site not ranked.							
																									12								N						N	Y								
																														12			N							N	Y	Switched from Class A and B foams to F-500 A-B foam a few years ago; don't recall previous brands.								
Wykoff	Wykoff	Y	X			N	N																	Not applicable							10			N						Y	N		Foam not used in training, site not ranked.							
Wyoming	Wyoming	Y			X	N	N																	Not applicable							2			N			X			Y			Class A foam use only, site not ranked.							
																										7									X														
Zimmerman-Livonia	Zimmerman	N	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, one							2			N		X				Y		Foam type Solid								
Zumbro Falls	Zumbro Falls	N			X	N	Y							X	X				X					time training.									12	N	X					Y		Class A Stik.	One time training with foam, site not ranked.							
																								Behind fire station,																									
Zumbrota	Zumbrota	N			X	Y	Y				X				X							X		1500 Jefferson Dr.							2			Y			X						Class A foam use only, site not ranked.							

Notes:
(a) Foam type or training use not specified, 3M foam use for training assumed.
WHPA: Wellhead Protection Area
SWAA: Source Water Assessment Area
Italicized Departments provided questionnaire information after June 13, 2008, their information was not included in Delta's June 30, 2008 report.

DELTA

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STATE_02826862

TABLE 3
MUNICIPAL FIRE DEPARTMENTS WITH NO FIREFIGHTING FOAM USE
October 15, 2008

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

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

Notes:
*Site located in Source Water Assessment area.
Bolded departments submitted survey responses after Delta's report of June 30, 2008.

DELTA

2233.0051
STATE_02826863

TABLE 4

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

October 15, 2008

Department	Location	Location II	GIS Coordinates X	GIS Coordinates Y	Site in Source Water Assessment Area?	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 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 Notes	SITE RANKING CRITERIA: Foam Type: 3M current or former use in training =6	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	WPA/SWA: site in WPA and/or SWA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
Albert Lea	Albert Lea		470510.69	4831974.33	N					X				X						X		Frank Avenue, near dog pound		3						2		Y		X				Y		Frank Avenue located in or near a Well Protection Area.	C	2	1	1	2	3	4	13
Alborn	Alborn	Bevrie Rd Hwy 7	541171.61 532328.98	5108057.06 5202247.95	N N					X				X						X		Alborn School, 7427 Seville Rd., Saginaw (demonstration); Alborn Fire Hall, 6390 Hwy. 7, Alborn (training & demonstration)		3						2		Y Y	X	X				Y			C C	2 2	1 3	3 3	0 0	1 3	C C	7 11
Alexandria	Alexandria	Magellan tank farm	314446.7	5065034.43	Y					X			X				X					Various, including VoTech, Magellan tank farm, live burns		12						12		Y	X X					Y	Y	Site ranking based on Magellan tank farm training location. Foam brands not known by fire chief.	8[a]	2	3	1	0	3	5	22
Apple Valley Appleton	Apple Valley Appleton	140th Street Hayes Road	484467.63 481638.3	4954738.73 4953766.48	N N				X			X			X		X	X		X		Fire Sta. #1, 15000 Hayes Rd; Apple Valley central maintenance facility, 6442 140th St. W. Appleton Public Works bldg 420 S. Munsterman St.	7	7 3						6 2		Y Y Y Y	X X X	X X				N Y Y	Y Y Y		C C	2 4	1 1	3 3	2 0	3 3	5 C	16 11
Bemidji	Bemidji	Airport	354450.23	5263556.3	N					X				X						X		Bemidji Airport (Class B)		1						2		Y Y	X X					Y Y		Bemidji Airport training site in Wellhead Protection Area.	8	4	3	3	0	3	5	23
Big Lake	Big Lake				N			X					X				X			X		Various		3						2		Y Y	X X					Y Y		Phasing out use of Silv-ex	Multiple training locations, site not ranked							
Blackduck	Barnum		535552.6	5156671.55	N							X	X							X		3148 City Rd. 5, Barnum									12	Y Y	X X					Y	N	No foam use before Fall 2007; now pumper truck. Use F-500 Welding Agent	C	2	1	1	0	3	C	7
Breckenridge	Breckenridge		224232.09	5129574.91	N					X				X			X					1312 Minnesota Av.		9						9		Y Y	X X								C	4	1	1	0	1	C	7
Brooklyn Center	Brooklyn Center	Brooklyn Blvd Dupont Av N	474220.95 476827.47	4990304.3 4981139.91	N N			X						X			X			X		Fire station #1, 6250 Brooklyn Blvd.; Fire station #2, 6500 Dupont Av. N.																		Foam type, annual usage not specified; back of form not completed.	8[a] 8[a]	6 6	1 1	1 1	4 4	3 3	5 5	28 28
Buffalo Lake	Buffalo Lake		271390.47	4955190.99	N						X		X				X					315 N. Main St., at Main & Church Sts.		1						0		Y Y	X X					Y			C	2	1	1	0	1	2	15
Burnsville	Burnsville		477488.56	4958836.18	N					X				X						X		Cliff Rd. & River Ridge Blvd.		4						2		Y Y			X	X		Y Y		Training facility jointly owned by Burnsville, Apple Valley, Eagan and Lakeville. AFFF /AR type Ansul ATC 2/6	C	4	3	3	5	3	5	23
Canby	Canby				N				X				X							X		Various						12			12	N Y	X X					Y		Foam brands not specified.	Multiple training locations, site not ranked							
Cannon Falls	Cannon Falls		503774.4	4929013.29	N					X			X							X		Cannon Valley fairgrounds Cannon Falls	7							7		Y Y	X X								C	2	3	3	5	1	4	18

2233.0052

STATE_02826864

TABLE 4

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

October 15, 2008

Department	Location	Location II	GIS Coordinates X	GIS Coordinates Y	Site in Source Water Assessment Area?	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 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 Notes	SITE RANKING CRITERIA: Foam Type: 3M current or former use in training =6	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	WPA/SWA: site in WPA and/or SWA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
																							7							X		Y	X					Y										
																							12									Y	X					Y										
Cass Lake	Cass Lake		378429.64	5248370.75	N					X					X					X		Railroad RCW type 3 Railroad St. NW, Cass Lake		3					2			N	X					Y		AFFF type US Foam First Strike.	0	4	1	1	0	3	4	13
Centennial	Lino Lakes				N							X	X							X		Various	1						12			N	X					Y			Multiple training locations, site not ranked								
																								1								Y		X														
Claremont	Claremont		500303.99	4976791.67	Y					X				X			X					Front of fire hall on Front St.							4			Y	X					Y		Built in foam tank, but not compressed	0	2	1	0	4	3	5	23
																							12									Y	X					Y	Y	Train with Class B foam at tank farm, brand unknown. Spent foam caught on top of floating lids.								
Clearbrook	Clearbrook		2[illegible]971.12	5204443.33	N					X					X							Tank farm on south edge of town.							12			Y	X					Y	Y		6[a]	4	3	3	0	3	2	23
																								7								Y	X					Y	Y	Foam used in training 50/50 between distr sodo and Angus foam. Class B and A								
Cloquet	Cloquet		540364.06	5172881.85	N						X				X					X		Gravel pit next to city garage at 410 Armory Road							7			Y	X					Y	Y		0	2	1	3	0	1	5	12
																							9									Y		X							Train mostly with Class A foam, occasionally Class B.								
Cohasset	Cohasset				N				X					X						X		Various							2			Y			X						Multiple training locations, site not ranked								
																							3									Y	X					Y										
Comfrey	Comfrey				N						X			X						X		Various							2			Y	X					Y			Multiple training locations, site not ranked								
																								1								Y	X															
Cottage Grove	Cottage Grove		505308.85	4964453.13	N							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		Foam type not specified.								
Crosslake	Crosslake		415012.46	5168117.93	N					X			X					X				Joint City/County maintenance facility, 13870 Whipple.										Y	X					Y			8[c]	2	3	3	0	3	2	21
																								3								Y	X					Y		Class A foam type 1st Defense.								
Darfur	Butterfield				Y						X		X							X		Various							12			Y	X					Y			Multiple training locations, site not ranked								
																													4			Y	X														
Dilworth	Dilworth		2[illegible]720.05	5198266.14	N					X			X							X		Fire Hall, 209 1st Av NW							2			Y	X								0	2	3	1	0	3	2	11
																							1									Y	X							AFFF is mostly used at William Bros. Pipeline facility about 6 miles away.								
Dover	Dover				N					X			X							X		Various, most recent at farm field on Cty Rd 2 ~1 mile east of Cty Rd 10.							7			Y	X								Multiple training locations, site not ranked								
Dunnell-Lake Fremont	Dunnell		356360.04	4824721	N					X			X							X		Old ball diamond, N. Seeley Av., Dunnell	12						2			Y	X		X					Class B AFFF noted as Silv-ex.	0	2	1	1	0	1	4	9
East Grand Forks	East Grand Forks				N					X				X						X		Northland Comm College, 2022							9			Y	X								Training at community college, site not ranked.								
Edina	Edina				N							X	X							X		Various									10	Y			X			Y	Y		Multiple training locations, site not ranked								
																							12									Y	X					Y		AFFF type U.S. Foam; quantity and use in training not specified.								
Ellsburg	Colton		544086.76	5232634.57	N					X			X							X		Fire Hall, 1763 Morudo Rd. Merrude, MN																					0	2	3	3	0	1	0	9
																							12									Y	X					Y		Fire chief not sure of foam brands, doesn't think they've ever used 3M foams.								
Elysian	Elysian		443216.8	4894163.44	Y					X			X							X		Fire Hall, 212 E. Main							12			Y	X					Y			0	2	3	3	2	1	5	13

2233.0053

STATE_02826865

TABLE 4

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

October 15, 2008

Department	Location	Location II	GIS Coordinates X	GIS Coordinates Y	Site in Source Water Assessment Area?	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 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 Notes	SITE RANKING CRITERIA: Foam Type: 3M current or former use in training =6	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	WPA/SWA: site in WPA and/or SWA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
Evansville	Evansville		292768.32	5058019.51	N					X				X			X			X		East end of town, (new) Council Circle.		8								Y								AFFF-AR type National Foam Universal Gold 1%-3%, foam quantity not specified	0	2	1	3	0	1	4	11
Fairmont	Fairmont		382828.41	4836330.65	N			X					X							X		City shop parking lot, 417 E. Margaret St.		3							2		Y		X						Y	N																
																								1									Y	X						Y	Y								
																															2		N	X						Y	Y								
																																10	Y			X				Y	N								
Fridley	Fridley		479469.4	4993724.27	N							X	X								X	300 71st Av., Fridley (North Metro Fire Training Center)		1								Y	X						N	Y	Discharge to retention pond.	8	2	3	3	4	3	5	28
Glenville	Glenville		477766.09	4823779.75	N						X		X							X		High school football field		4							2		N																														
Golden Valley	Golden Valley		470257.57	4984474.32	N				X						X		X			X		7800 Golden Valley Road		7							7		Y		X			X			Y																				
																								4									Y	X						N	Y								
Goodyear	Goodyear		8034.78	4819751.11	N					X				X			X					Across street from fire station, 1110 W. 5th St.									2		Y	X						N	Y	Switched to A/3 sticks in March 2009	0	2	3	3	5	3	5	21
Hamburg	Hamburg		425140.6	4953020.90	N					X			X							X		161 Broadway							7			N	X						Y			0	2	3	3	2	3	2	15
																								3									Y	X						Y								
Harmony	Harmony		579975.49	4822231.03	Y					X				X			X			X		Fire hall, Main Av. S. and Brush dump, east of intersection of 139 & Gordon Rd.									2		Y	X						Y			0	2	3	3	5	1	5	19
																																11	Y							Y								
																								1									Y																
																								3									Y																
Hastings	Hastings				N						X				X		X			X		Various								7		Y	X									Multiple training locations, site not ranked								
																																10	Y																
Hibbing	Hibbing		505339.76	5252126.4	N					X			X							X		2320 Brooklyn Dr.									2		N	X									0	2	1	1	0	3	4	11
																								12									N	X																
																													4				Y	X																
Hoyt Lakes	Hoyt Lakes		564458.69	5263299.13	N						X		X							X		Triple ballfields or near Hoyt Lakes fire hall, 123-1/2 Kennedy Memorial Dr.									2		Y		X								AFFF-AR foam type Lorcon Pyrosol Class AB Hi Ex type Arsul Jet-X. Also train with Dawn dish soap.	0	2	3	3	0	3	0	11
Hugo	Hugo	140th St. N.	500134.17	5000140.01	N										X					X		5223 140th St. N. and		7							7		Y	X						Y	Y		0	2	3	3	4	3	4	19
		Fedl Rd. Ct. N.	498735.34	4999356.19	N						X					X				X		4630 Fable Rd Ct. N.									7		Y	X						Y	Y		0	2	3	3	4	3	5	20
																								1									Y	X						N	Y								
Hutchinson	Hutchinson	3rd Av. SE	391970.34	4971515.91	N																	205 3rd Av. SE and		1									Y	X						N	Y		0	4	1	1	0	3	5	22
		Adams St. SE	393884.42	4969258.23	N			X					X				X			X		1300 Adams St. SE									2		Y	X						Y	Y		8	4	3	1	0	3	2	21
																								1									Y		X					Y	Y								
Kenyon	Kenyon		501206.9	4967119	Y						X		X									Fire station, 714 2nd St.									12		N	X						Y	Y	Foam brands vary. Very little foam used in training	8	2	3	1	5	3	5	27
Kiester	Kiester				N																	South Central College, North Mankato									2		N		X								Training off-site at VoTech.	Train ng at community college, site not ranked.							
																								1									Y	X																
Lake Elmo	Lake Elmo				N						X		X							X		Various			4						7		N	X									Multiple training locations, site not ranked								
																																	Y																
Lake Johanna	Shoreview		488316.27	4995010.77	N						X					X	X					Varies, mostly at Station 3, 5545 Lexington Ave		1							2		Y			X				Y	Y	Rarely use Class B foam in training	0	4	3	3	2	3	0	15

2233.0054

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TABLE 4

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

October 15, 2008

Department	Location	Location II	GIS Coordinates X	GIS Coordinates Y	Site in Source Water Assessment Area?	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 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 Notes	SITE RANKING CRITERIA: Foam Type: 3M current or former use in training =0	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	WPA/SWA: site in WPA and/or SWA=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) HICT F-500 A-B (11) Pyrocom Acqua Silks (12) Other or unspecified foam product												Annual Foam Usage																			
Lanesboro	Lanesboro		582167.04	4841518.44	N						X		X							X		Lanesboro ball park parking lot, County Road 8	11 12							11			Y Y	X X					Y Y	N	Y	Used to have AR-AFFF, don't recall ever using, got rid of old stock	0	2	3	3	5	1	4	18
Linwood Twp	Stacy		492107.46	5024937.15	N					X					X					X		Behind fire station, 22870 Typo Creek Dr., Stacy	1 1							2			Y Y N	X X		X			Y Y	Y			8	4	3	3	0	3	2	23
Litchfield	Litchfield		458552.57	5360557	N					X			X				X					Fire hall, McPherson & 3rd Av																				Foam type and quantity not specified	8[a]	2	3	3	0	3	4	23
Loretto	Loretto		450045.23	4980337.1	N					X				X			X					250 Medina St. N.	1									Y	X					N	Y		8	2	1	1	0	1	5	18
Luverne	Luverne		540370.28	4935770.81	N			X						X							X	Tree curve 1/2 mile south of city on hwy 75, east side of road.		1						12			Y		X				N Y	Y N	Not sure current Class B foam brand, used to use 3M Class B foam. City picks up dirt/gravel at training site with payloader, dispose at dump	8	6	3	3	0	3	5	28
Madelia	Madelia				N					X			X								X	Various	1	12						12			Y Y	X X			X		Y	Y	Class A foam type Stevens	Multiple training locations, site not ranked								
Mahtomedi	Mahtomedi				N		X						X								X	Various fire training burns.	7							7			Y			X		X				Multiple training locations, site not ranked								
Mankato	Mankato		420708.19	4891577.5	N					X					X		X					Fire Sta. #1, 300 Madison Av.	1 7							2			N Y Y	X X					N Y	Y Y	AFFF-AR type Angus AlcoSeal	8	4	1	0	5	1	2	21
Mapleton	Mapleton		423391.62	4864319.73	Y						X		X				X					Street in front of fire hall, 103 3rd Av NE	12							12 12			Y Y Y	X X					Y N N	N Y Y	Use Class A and Class B foam sticks, not sure brand. Used to use POK foam system.	0	2	1	0	2	1	5	11
Marshall	Marshall		276985.21	4928033.45	N			X					X							X		Marshall Ment Center, City Kd 68 (1001 W. Erie Rd.)	1 2 12							2 12			N Y Y	X		X			N Y	Y	Training foam type Trainol. Use of 3M foam in training not specified.	8[a]	6	3	3	0	1	0	21
Maynard	Maynard		304357.74	4975563.32	Y						X		X				X					Maple St. & Shannon								2 9			Y N						Y N	Y	Foam quantities not specified.	0	2	1	1	0	3	5	12
Mazeppa	Mazeppa				Y					X			X								X	Various	11							11			Y Y						Y			Multiple training locations, site not ranked								
Minneapolis	Minneapolis		477963.41	4986329.2	N					X			X								X	2537th Ave. NE	1 4							4			Y N Y	X X					N Y	Y		8	2	3	1	4	1	0	19
Montevideo	Montevideo		285300.91	4960838.11	N							X		X							X	Fire station, 103 Canton Av	1 1 3 7										Y Y N Y	X X X					Y Y N Y	Y Y N Y		8	2	3	3	0	1	0	17
Myrtle	Myrtle		487368.87	4823339.43	Y					X			X								X	Myrtle ballfield								7			N	X					Y	N	Foam type and quantity not specified.	8[a]	2	1	0	5	1	5	22
Nerstrand	Nerstrand				Y						X			X							X	Various Houses	1										Y	X					N	Y		Multiple training locations, site not ranked								

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STATE_02826867

TABLE 4

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

October 15, 2008

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																						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) HICT F-500 A-B; (11) Pyrocom Acqua Silks; (12) Other or unspecified foam product												Annual Foam Usage																			
New York Mills	New York Mills		376478.52	5155304.07	N							X	X				X			X		City utility gravel parking lot, west side of town, between Centennial Dr. W. and Hwy. 10								2			4	Y	X		X			Y		Train occasionally to use up expired foam.	0	2	3	3	0	3	2	13
Newfolden	Newfolden		253227.42	5361252.2	Y					X			X				X			X		Fire hall								2		12	N	X							Other foam type: Oxford 227 Wetting Agent; use in training not specified	0	2	3	1	0	1	5	12
North St. Paul	North St. Paul		500221.49	4984167.2	N				X						X					X		No. St. Paul Public Works, 2303 1st St. N.	1							1			Y		X				Y	Y		8	6	3	1	2	3	5	28
Northfield	Northfield		485121.54	4920959.43	N							X	X				X					City street shop, 1710 Riverview Drive		1						9			Y	X					Y		Train with foam when get new equipment.	6	2	3	3	0	3	1	25
Northrop	Northrop		384230.64	4843639.71	N						X		X							X		Behind fire hall, 211 N. Bridgeman								2			N			X			Y	Y	One stick used annually	0	2	0	1	0	3	5	11
Norwood	Norwood		426573.08	4957440.52	Y					X			X							X		City vacant lot at South & Rush Streets	6								11		Y	X					Y	Y		0	2	1	3	2	3	5	16
Olivia	Olivia				N				X				X							X		Various		3						7			Y	X					Y	Y	Multiple training locations, site not ranked								
Paynesville	Paynesville		364202.33	5026039.25	N						X		X							X		City airport	11	9						2				X					Y		AFFF-AR type Chemguard 3%. Foam used in training not specified	0	2	3	3	0	3	5	16
Pelican Rapids	Pelican Rapids		263129.29	5162260.44	N						X		X				X			X		2nd Av. NW & 4th St.	12							2			Y	X					Y		AFFF type US Foam First Strike	0	2	3	3	0	3	5	16
Perham	Perham		30264.55	5162411.87	N				X				X				X			X		Near parking entrance of Prairie Winds Middle School	12							12		12	Y		X		X		Y	Y	Class A and B foam brands vary. Also has FOR system foam sticks	8[c]	4	1	1	0	3	5	22
Pierz	Pierz		414262.67	5091305.4	Y						X		X							X		Intersection of 25 and 27, Pierz	1							2			Y			X			N		Quantity 3M foam not specified	8	2	3	3	0	1	5	22
Pine River	Pine River	Fair grounds	392262.03	5175231.39	N																	Fair grounds and school grounds on 1st Street, Pine River		3									Y						Y	Y	Use of Class B AR-AFFF in training not specified	0	2	1	1	0	1	5	10
		School grounds	392348.93	5175736.55	N							X			X					X										2			Y			X			Y	Y		0	2	3	3	0	1	4	13
		Co Rd 6	464359.04	4982736.14	N																		4										Y		X		X					0	2	1	1	2	1	6	12
		Dunkirk Ln	461306.41	4984993.59	N																	Three fire stations: 13250 City Rd 6, 3300 Dunkirk Ln, 12000 Old Rockford Rd								4			N			X			Y		Training with foam just to learn hose connections, set-up, little free flow of foam.	0	2	3	3	2	3	5	18
Plymouth	Plymouth	Old Rockford Rd	465932.53	4986344.73	N				X				X				X																								0	2	3	3	2	3	5	18
Porter	Porter		248334.81	4947264.5	N				X				X				X					Fire hall, 301 Lone Tree Street								2			Y	X					Y			0	4	3	1	0	1	0	9
Preston	Preston		574569.31	4835742.38	N							X		X						X		Fillmore County Fairgrounds, Fillmore Ct. & Cty. Hwy. 12, Preston		9									Y	X					Y											
																							1							2			N	X					N	Y	Class A foam type Clarey's First Strike	8	2	3	3	5	3	4	28
Proctor	Proctor				N						X		X							X		No. specified		4						2			N	X		X					AFFF type Ansul Jet X. Foam used in training not specified	Training site not specified, site not ranked							
Randall	Randall		383015.77	5105488.16	N						X		X							X		At lot across the street from the fire station.								2		11	N				X		Y			0	2	0	3	0	3	4	12

2233.0056

STATE_02826868

TABLE 4

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

October 15, 2008

Department	Location	Location II	GIS Coordinates X	GIS Coordinates Y	Site in Source Water Assessment Area?	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 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 Notes	SITE RANKING CRITERIA: Foam Type: 3M current or former use in training =6	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	WPA/SWA: site in WPA and/or SWA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
Randolph-Hampton	Randolph				N					X			X							X		Various like burns		1						2			Y								Foam quantities not specific, foam used in training not specific.	Multiple training locations, site not ranked							
Richfield	Richfield		479089.13	4970143.5	N						X					X	X			X		Richfield ice arena, 636 E. 66th St	4							2			N	X		X					Historical use of 3M Class B AFFF in training, amount unknown.	6	6	3	3	2	3	5	30
Richmond	Richmond		382469.71	5034541.38	N					X			X							X	X	Industrial lot, 5 lots west of Main & 191st Av, on the north side of Main.	1 3							2	10		Y N N	X X		X X			Y Y	Y Y	Just started using HCT F-500 A-B foam.	0	2	3	3	0	3	4	15
Robbinsdale	Robbinsdale				N						X			X			X					Various	1 1							2			Y Y Y	X X X					N N Y	Y Y		Multiple training locations, site not ranked								
Rochester	Rochester		540539.06	4879254.12	N					X				X						X		2021 41st St. NW	1							8 1	10		Y Y Y	X X		X			Y Y	N Y		8	2	1	1	5	3	5	25
Rosemount	Rosemount		488446.7	4953651.23	N					X			X				X	X		X		14700 Diamond Pkwy	12							12			Y N Y		X				N Y	Y N	List switched to HCT F-500 foam, historic use of AFFF and training foam. Historic training with AFFF, likely 3M foam at some point in last 25 years.	8	2	1	1	2	3	2	19
Sartell-LeSauk	Sartell		405757.66	505 923.66	N					X			X							X		Fire Hall, 220 4th Ave. S		7						7			Y N			X			Y Y	Y Y	AFFF-AR type Angus Alco Seal 3%-6% amount used "not much", Class A B Hi-Ex Angus Foam Liquid. Train with Dawn soap, haven't trained with regular foam in years.	0	2	3	3	0	3	4	15
Shafer	Shafer				Y					X			X									Various	4							2			Y Y	X X					Y Y	Y Y		Multiple training locations, site not ranked								
Silver Lake	Silver Lake		405859.17	4972916.58	N					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	4	15
St. Clair	St. Clair				N				X						X		X					City of St. Clair																			Foam type and quantity not specified; training location not mappable.	8[30]	6	3	1	2	3	0	23
St. Cloud	St. Cloud	41st Av 45th Av	405767.11 416501.64	5048433.13 5044388	N N					X						X				X		Open field near Sta. 2, 700 41st Av N., and Sta. 4, 1550 45th Av SE		9 7						9			Y Y		X X		X X			Y Y	Y Y	Use ~20 gal foam and ~40 ga training foam in training. 41st Av training site in or adjacent to Wellhead Protection Area	0	6	3	1	0	1	5	16
St. Francis	St. Francis				N					X			X							X		City parking lot								7			Y			X			Y	Y		Training site not mappable, site not ranked.								

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STATE_02826869

TABLE 4

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

October 15, 2008

Department	Location	Location II	GIS Coordinates X	GIS Coordinates Y	Site in Source Water Assessment Area?	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 Acqua Silks	(12) Other or unspecified foam product	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 Notes	SITE RANKING CRITERIA: Foam Type: 3M current or former use in training =6	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	WPA/SWA: site in WPA and/or SWA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
																							1												Y		X				N	Y								
																								1											Y		X				Y	Y	Train ~every 18 months. Class A/B foam type Kidde Hi-Ex								
St. Paul	St. Paul		486574.78	4979985.93	N					X					X					X		1683 Energy Park Dr., St. Paul												12						Y	X					Y	Y													
																																		1						N	X					Y														
St. Paul Park	St. Paul Park				N					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								
																								7																																	
Tyler	Tyler		250328.84	4907390.31	N			X					X				X			X		Corner of Bradley & Applebee												2														Spent foam to storm sewer (20%) and ground discharge (80%). Foam quantity not specified. Foam used for training pro.	0	6	1	1	0	1	0	9
Upsala	Upsala		377783.95	5074021.23	N				X				X				X					110 W. Elm Av., Upsala												12						Y	X							Roya branch A/F HiEx foam.	0	4	3	3	0	3	2	15
																							3																			Y	X					Y	Y													
Vergas	Vergas				N							X	X							X		Various locations												7				X		Y	Y	Multiple training locations, site not ranked														
		Airport	443357.99	4965537.5	N																		7																			Y	X								0	4	3	3	0	3	0	13
		Maple Street	437486.01	4966072.27	N																			7																			Y	X								0	4	3	1	0	3	0	16
Waconia	Waconia	Paradise Lane	439790.38	4967181	N					X					X							7550 Airport Rd, 8075 Paradise Ln, and 26 Maple St. S.														7						Y	X			X					0	4	3	3	0	3	0	18
Waldorf	Waldorf		448262.29	4861698.97	Y		X						X				X			X		Main Street	12																			Y	X					Y	Y	AFFF foam type Roya Chemical.	0	6	1	1	2	1	5	16
																																										Y	X														
Waseca	Waseca		459765.1	4881691.45	N					X					X					X		Waseca City Fairground, area of organic sand		12												12						Y	X							Foam brand not specified	0	4	1	1	2	1	4	13
																																										Y	X					Y													
Welcome	Welcome		369875.97	4836030.82	Y					X				X					X			NE corner of Dugan St. S. and Mill St.		8																		Y	X					Y			0	2	1	3	0	3	5	14
Wells	Wells				Y					X				X				X				Various	1																			Y	X					Y	Y	Multiple training locations, site not ranked														
																							3																			Y	X					Y	Y													
West Concord	West Concord				Y					X			X				X			X		Various												2				X		Y	X					Y	Y	Multiple training locations, site not ranked														
																								3																			Y			X			Y			0	2	3	1	5	3	5	19
Winona	Winona	3rd Street	609503.38	4878473.9	N					X			X				X			X		Various – Central Fire Sta., 451 E. 3rd; and Technical College, 1250 Homer Rd., Winona												2						N	X					Y			0	2	3	3	5	3	0	16
																							7																			N	X					Y	Y													
																							1																			Y	X					N	Y	Used 3M foam through 1998, switched to Angus and added a training foam								
																																			6						N		X				Y	Y													
Woodbury	Woodbury				N					X			X				X			X		Various													7						Y	X					Y	Y	Multiple training locations, site not ranked														
																						Gravel road in front of fire hall, 301 Hwy 75, Wolverton	3																		Y	X					Y	Y	No historical use of other foam.														
Wolverton	Wolverton		213325.98	5163440.61	N					X			X				X			X														2						Y	X					Y	Y		C	2	3	1	0	1	0	7

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, excluding HCT F-500 A-B fire suppression agent, which does not contain PFCs.
WPA: Wellhead Protection Area
SWA: Source Water Assessment Area
Italicized Departments provided questionnaire information after June 13, 2008, their information was not included in Delta's June 30, 2008 report.

DELTA

STATE_02826870

TABLE 5
QUESTIONNAIRE RESPONSES FROM AIRPORT AND REFINERY FIRE DEPARTMENTS AND TRAINING SCHOOLS
October 15, 2008

| Entity | Contact Person | Location | Foam Use Frecuency for Fire Response: 0-25% of Fires | 25-50% 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 | 26 to 50 gallons | More than 50 gallons | Spent Foam Destination: Storm Sewer | Sanitary Sewer | On-Site Septic | Ground | Other | Training Location | X | Y | Site in Source Water Assessment Area? | Foam Use by Other Departments: Other Departments Utilize Facility? | Do Other Departments Bring Foam? | 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-FFFP | Class A-B Hex | Class A | Training Foam | Other | Annual Foam Usage: 10 Gallons or less | 11-25 Gallons | 26-100 Gallons | 100-500 Gallons | More than 500 Gallons | Current User? | 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 | WPA/SWA: site in WPA and/or SWA=5; within 1/4 mile=4; within 1 mile=2; No=0 | Site Ranking |
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TABLE 5
QUESTIONNAIRE RESPONSES FROM AIRPORT AND REFINERY FIRE DEPARTMENTS AND TRAINING SCHOOLS
October 15, 2008

| Entity | Contact Person | Location | Foam Use Frecuency for Fire Response: 0-25% of Fires | 25-50% 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 | X | Y | Site in Source Water Assessment Area? | Foam Use by Other Departments: Other Departments Utilize Facility? | Do Other Departments Bring Foam? | 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-FFFP | Class A 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 User? | 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 | WPA/SWA: site in WPA and/or SWA=5; within 1/4 mile=4; within 1 mile=2; No=0 | Site Ranking |
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TABLE 6
TRAINING SITES WITH 3M FOAM USE
October 15, 2008

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	WPA/SWA: site in WPA and/or SWA=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	5	24
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	4	3	1	0	3	5	22
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	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
Clearbrook	Tank farm on south edge of town.	8[a]	4 (5 to 10 gals)	3	3	0	3	2	23
Linwood Twp	Behind fire station, 22870 Typo Creek Dr., Stacy	8	4 (5 to 10 gals)	3	3	0	3	2	23
St. Paul	1683 Energy Park Dr., St. Paul	8	4 (5 to 10 gals)	1	1	5	3	0	22
Perham	Near parking entrance of Prairie Winds Middle School	8[a]	4 (5 to 10 gals)	1	1	0	3	5	22
Mankato	Fire Sta. #1, 300 Madison Ave., Mankato	8	4 (5 to 10 gals)	1	0	5	1	2	21
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
Kenyon	Fire station, 714 2nd St.	8	2 (5 gals or less)	3	1	5	3	5	27
Rochester	2021 41st St. NW, Rochester	8	2 (5 gals or less)	1	1	5	3	5	25
Northfield	City street shop, 1710 Riverview Drive.	8	2 (5 gals or less)	3	3	5	3	1	25
Claremont	Front of fire hall, Front St., Claremont	8	2 (5 gals or less)	1	0	4	3	5	23
Alexandria	Various, including VoTech, Magellan tank farm, live burns.	8[a]	2 (5 gals or less)	3	1	0	3	5	22
Myrtle	Myrtle ball field, Myrtle	8[a]	2 (5 gals or less)	1	0	5	1	5	22

TABLE 6
TRAINING SITES WITH 3M FOAM USE
October 15, 2008

		SITE RANKING CRITERIA							
Department	Training Location	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	WPA/SWA: site in WPA and/or SWA=5; within 1/4 mile=4; within 1 mile=2; No=0	OVERALL SITE RANKING
Pierz	Intersection of 25 and 27, Pierz	8	2 (5 gals or less)	3	3	0	1	5	22
Crosslake	Joint City/County maintenance facility, 13870 Whipple.	8[(a)]	2 (5 gals or less)	3	3	0	3	2	21
Minneapolis	25 37th Ave. NE. Minneapolis	8	2 (5 gals or less)	3	1	4	1	0	19
Rosemount	14700 Shannon Pkwy	8	2 (5 gals or less)	1	1	2	3	2	19
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, McPhersor & 3rd Av	8[(a)]	2 (5 gals or less)	3	3	0	3	4	23
Montevideo	Fire station, 103 Canton, Montevideo	8	2 (5 gals or less)	3	3	0	1	0	17
Buffalo Lake	315 N. Main St., at Main & Church Sts., Buffalo Lake	8	2 (5 gals or less)	1	1	0	1	2	15

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

TABLE 7
MUNICIPAL FIRE DEPARTMENTS LOCATED IN SOURCE WATER ASSESSMENT (SWA) AREAS
October 15, 2008

FID SWA	AREA	PERIMETER	SWA ID	SWA NAME	SWA STAT C	CZ CLASS C	AQUIFER C	FVEGID	VC DATE	MDH HY C	ACRES	SWA C	NCTII CODE	AQ TYPE	AQ DENS C	FID 230801	X	Y	FT	SUB	CITY	NAME	OWNER	UNITC	CONTRIB	DATE	META_LINK	STA	FIREFIGHTING FOAM QUESTIONNAIRE RECEIVED?
1017	1382.49 68508	13291.15124	1799	Ada - Well #2	A	TM	QBAA	1540001	10/27/2003	0	24.41	SA C1799	FRC	C	N	276	234161	5244542	Fire Station		Ada	Ada FD	Fire Dept ID (state assigned)	54101	kurt.castella@state.mn.us	1/1/2008	GPS		Yes
1048	11965.95584	12277.33812	1800	Ada - Well #3	A	TM	QBAA	1540001	10/27/2003	0	39.97	SA C1800	FRC	C	N	276	234151	5244542	Fire Station		Ada	Ada FD	Fire Dept ID (state assigned)	54101	kurt.castella@state.mn.us	1/1/2008	GPS		Yes
1049	3469.48 78252	2060.33867	1801	Ada - Well #4	A	TM	QBAA	1540001	10/27/2003	0	65.71	SA C1801	FRC	C	N	276	234151	5244542	Fire Station		Ada	Ada FD	Fire Dept ID (state assigned)	54101	kurt.castella@state.mn.us	1/1/2008	GPS		Yes
1180	2224.98 85694	1634.25288	1971	Albany - Well #1	A	TM	QBAA	1730001	10/27/2003	0	54.88	SA C1971	FRC	C	N	846	377755	5054333	Fire Station		Albany	Albany FD	Fire Dept ID (state assigned)	73124		1/1/2008	GPS		Yes
117	30115.13.01563	7278.33814	205	Northern Food anc Dairy, Inc. 2	A	TM	QWTA	5210473	1/29/2002	210C 8	745.38	SA C0205	AM	S	Y	923	315381	5084511	Fire Station		Alexandria	Alexandria FD	Fire Dept ID (state assigned)	21101	symmerista@gmail.com	1/1/2008	GPS		Yes
695	2341.15.03676	1778.13169	1299	Amboy - Well #2	A	TM	CMTS	1070001	10/27/2003	0	67.80	SA C1299	FRC	C	N	701	186229	4963016	Fire Station		Amboy	Amboy FD	Fire Dept ID (state assigned)	37101		1/1/2008	FSA		Yes
9	343.7.03906	682.93315	12	Atwater East	A	TM	QBAA	1340001	4/22/2002	210C20	9.18	SA C0012	AM	S	Y	135	360102	4993974	Fire Station		Atwater	Atwater FD	Fire Dept ID (state assigned)	34101	shane.deaney@dnr.state.mn.us	1/1/2008	GPS		Yes
672	8819.2.70000	1042.35978	1373	Audubon - Well #1	A	TM	QBAA	1030001	10/27/2003	0	21.30	SA C1373	FRC	C	N	321	272684	5104034	Fire Station		Audubon	Audubon FD	Fire Dept ID (state assigned)	33101	martin.willy@dnr.state.mn.us	1/1/2008	GPS		No
673	8819.2.70090	1042.35978	1374	Audubon - Well #2	A	TM	QBAA	1030001	10/27/2003	0	21.30	SA C1374	FRC	C	N	321	272684	5104034	Fire Station		Audubon	Audubon FD	Fire Dept ID (state assigned)	33101	martin.willy@dnr.state.mn.us	1/1/2008	GPS		No
205	637.13.31250	2845.31275	341	Backus	A	TM	QBAA	1110002	1/29/2003	210C20	127.43	SA C0341	AM	S	Y	314	384377	5183232	Fire Station		Backus	Backus FD	Fire Dept ID (state assigned)	11101	symmerista@gmail.com	1/1/2008	GPS		Yes
1152	11118.1.22737	11152.84026	1932	Badger - Well #1	A	TM	QBAA	1680001	10/27/2003	0	27.45	SA C1932	FRC	C	N	962	278529	5407647	Fire Station		Badger	Badger FD	Fire Dept ID (state assigned)	38105	symmerista@gmail.com	1/1/2008	GPS		No
1154	37644.80733	6816.63360	1933	Badger - Well #2	A	TM	QBAA	1680001	10/27/2003	0	9.30	SA C1933	FRC	C	N	962	278529	5407647	Fire Station		Badger	Badger FD	Fire Dept ID (state assigned)	38105	symmerista@gmail.com	1/1/2008	GPS		No
277	1913.08 87500	6817.73222	486	Barrett	A	TM	QBAA	1260002	2/13/2003	210C 8	472.73	SA C0486	AM	S	Y	828	275841	5083131	Fire Station		Barrett	Barrett FD	Fire Dept ID (state assigned)	26102	gregrussell@dnr.state.mn.us	1/1/2008	GPS		Yes
0	762969.85888	6835.23139	4	Belgrade	A	TM	QBAA	1730004	2/23/2002	210C20	169.44	SA C0004	AM	S	Y	791	3431 D	5083333	Fire Station		Belgrade	Belgrade FD	Fire Dept ID (state assigned)	73103	jeff.Faris@dnr.state.mn.us	1/1/2008	GPS		Yes
899	181257.52959	1511.14188	1620	Bigfork - Well #2	A	TM	QBAA	1310001	10/27/2003	0	44.79	SA C1620	FRC	C	N	914	450869	5287938	Fire Station		Bigfork	Bigfork FD	Fire Dept ID (state assigned)	31114	symmerista@gmail.com	1/1/2008	GPS		Nu
1126	20949.57657	715.39749	1902	Bird Island - Well #1	A	TM	QBAA	1660001	10/27/2003	0	9.99	SA C1902	FRC	C	N	450	360099	4952630	Fire Station		Bird Island	Bird Island FD	Fire Dept ID (state assigned)	35101	shane.deaney@dnr.state.mn.us	1/1/2008	GPS		Yes
1127	26310.77074	676.84324	1903	Bird Island - Well #3	A	TM	QBAA	1660001	10/27/2003	0	6.50	SA C1903	FRC	C	N	450	360099	4952630	Fire Station		Bird Island	Bird Island FD	Fire Dept ID (state assigned)	35101	shane.deaney@dnr.state.mn.us	1/1/2008	GPS		Yes
1120	14020.85508	1402.22344	1904	Bird Island - Well #4	A	TM	QBAA	1660001	10/27/2003	0	13.87	SA C1904	FRC	C	N	450	360099	4952630	Fire Station		Bird Island	Bird Island FD	Fire Dept ID (state assigned)	35101	shane.deaney@dnr.state.mn.us	1/1/2008	GPS		Yes
1182	149 625.8489	4334.37986	1984	Blooming Prairie - Well #1	A	TM	CMGS	1740001	10/27/2003	0	368.59	SA C1984	FRC	C	N	25	496039	4855946	Fire Station		Blooming Prairie	Blooming Prairie FD	Fire Dept ID (state assigned)	74101	Chris.Watson@state.mn.us	1/1/2008	GPS		Yes
1000	8194.1.07459	1002.37001	1802	Bloup - Well #1	A	TM	QBAA	1540002	10/27/2003	0	21.73	SA C1802	FRC	C	N	308	294382	5231140	Fire Station		Bloup	Bloup FD	Fire Dept ID (state assigned)	54102	symmerista@gmail.com	1/1/2008	FSA		Yes
799	11173.1.38985	1163.73222	1520	Brandon - Well #1	A	TM	QBAA	1210009	10/27/2003	0	27.49	SA C1520	FRC	C	N	873	298749	5093374	Fire Station		Brandon	Brandon FD	Fire Dept ID (state assigned)	21102	symmerista@gmail.com	1/1/2008	GPS		Yes
800	29978.77319	2005.32808	1521	Brandon - Well #2	A	TM	QBAA	1210009	10/27/2003	0	51.19	SA C1521	FRC	C	N	873	298749	5093374	Fire Station		Brandon	Brandon FD	Fire Dept ID (state assigned)	21102	symmerista@gmail.com	1/1/2008	GPS		Yes
804	25834.41980	1863.72663	1525	Brickyn - Well #1	A	TM	QBAA	1220002	10/27/2003	0	63.81	SA C1525	FRC	C	N	585	434359	4972448	Fire Station		Brickyn	Brickyn FD	Fire Dept ID (state assigned)	22102		1/1/2008	FSA		No
801	35484.78675	2134.45828	1714	Brownton - Well #2	A	TM	QBAA	1430002	10/27/2003	0	87.68	SA C1714	FRC	C	N	671	380076	4945177	Fire Station		Brownton	Brownton FD	Fire Dept ID (state assigned)	43101	shane.deaney@dnr.state.mn.us	1/1/2008	GPS		Yes
1084	74143.90824	6OE.47904	2531	Butterfield Foods Company - Well # - Outsice Well	A	TM	QBAA	6830001	10/27/2003	0	18.32	SA C2531	FRC	C	N	647	350152	4803891	Fire Station		Butterfield	Butterfield FD	Fire Dept ID (state assigned)	33101		1/1/2008	FSA		No
1686	8738.17689	627.15389	2532	Butterfield Foods Company - Well #4 Non-Community Well	A	TM	QBAA	6830001	10/27/2003	0	2.84	SA C2532	FRC	C	N	647	350152	4803891	Fire Station		Butterfield	Butterfield FD	Fire Dept ID (state assigned)	33101		1/1/2008	FSA		No
581	360814.40622	6046.37623	1208	Callaway - 2	A	TM	QBAA	1030004	4/15/2003	210C20	69.80	SA C1208	AM	S	Y	347	270909	5207232	Fire Station		Callaway	Callaway FD	Fire Dept ID (state assigned)	23102	martin.willy@dnr.state.mn.us	1/1/2008	GPS		Yes
1294	71671.84568	65C.23462	2047	Camplbell - Well #3	A	TM	QBAA	1840003	10/27/2003	0	17.71	SA C2047	FRC	C	N	762	236982	5113535	Fire Station		Camplbell	Camplbell FD	Fire Dept ID (state assigned)	34102	symmerista@gmail.com	1/1/2008	GPS		Yes
632	139555.12500	1778.74697	1289	Canton 2	A	TM	CJUN	1230001	5/9/2003	210L03	53.74	SA C1289	AM	S	Y	116	589460	4952116	Fire Station		Canton	Canton FD	Fire Dept ID (state assigned)	23101	john.kelley@state.mn.us	1/1/2008	GPS		Yes
633	29316.58350	2763.23167	1290	Canton T	A	C	OFDC	1230001	5/9/2003	210C03	103.14	SA C1290	AM	S	Y	116	589460	4952116	Fire Station		Canton	Canton FD	Fire Dept ID (state assigned)	23101	john.kelley@state.mn.us	1/1/2008	GPS		Yes
740	7948.97 76817	5147.37471	1457	Chisago City - Well #5	A	TM	OFTA	1130003	10/27/2003	0	169.75	SA C1457	FRC	C	N	196	508984	5074567	Fire Station		Chisago City	Chisago City FD	Fire Dept ID (state assigned)	13103	dave.schuller@dnr.state.mn.us	1/1/2008	GPS		Yes
787	119173.97295	1225.32832	1506	Claremont - Well #1	A	TM	ODCL	1200001	10/27/2003	0	29.47	SA C1506	FRC	C	N	17	500065	4873733	Fire Station		Claremont	Claremont FD	Fire Dept ID (state assigned)	20101	Chris.Watson@state.mn.us	1/1/2008	GPS		Yes
788	142546.05108	1340.33244	1508	Claremont - Well #3	A	TM	OGAL	1200001	10/27/2003	0	35.22	SA C1508	FRC	C	N	17	500065	4873733	Fire Station		Claremont	Claremont FD	Fire Dept ID (state assigned)	20101	Chris.Watson@state.mn.us	1/1/2008	GPS		Yes
1268	367460.50643	2151.53476	2086	Clarkfield - Well #5	A	TM	QBAA	1870002	10/27/2003	0	60.36	SA C2086	FRC	C	N	469	278294	4963547	Fire Station		Clarkfield	Clarkfield FD	Fire Dept ID (state assigned)	37102	shane.deaney@dnr.state.mn.us	1/1/2008	GPS		Yes
636	227230.70300	1720.31700	1661	Clarks Grove - Well #1	A	TM	ODCL	1240005	10/27/2003	0	69.78	SA C1661	FRC	C	N	667	472460	4945771	Fire Station		Clarks Grove	Clarks Grove FD	Fire Dept ID (state assigned)	24124	Chris.Watson@state.mn.us	1/1/2008	GPS		Yes
638	222828.71611	1675.49724	1662	Clarks Grove - Well #2	A	TM	ODCL	1240005	10/27/2003	0	55.36	SA C1662	FRC	C	N	667	472460	4945771	Fire Station		Clarks Grove	Clarks Grove FD	Fire Dept ID (state assigned)	24124	Chris.Watson@state.mn.us	1/1/2008	GPS		Yes
765	270404.60358	1845.71314	1483	Clearbrook - Well #4	A	TM	QBAA	1150003	10/27/2003	0	66.32	SA C1483	FRC	C	N	921	317761	5285123	Fire Station		Clearbrook	Clearbrook FD	Fire Dept ID (state assigned)	15102	symmerista@gmail.com	1/1/2008	GPS		Yes
1080	127864.40716	1265.22896	1857	Climax - Well #1	A	TM	QBAA	1660001	10/27/2003	0	31.40	SA C1857	FRC	C	N	929	213177	5273733	Fire Station		Climax	Climax FD	Fire Dept ID (state assigned)	35102	symmerista@gmail.com	1/1/2008	GPS		No
685	116800.09883	1213.35003	1388	Clinton - Well #7	A	TM	QBAA	1060003	10/27/2003	0	28.38	SA C1388	FRC	C	N	798	23145	5039737	Fire Station		Clinton	Clinton FD	Fire Dept ID (state assigned)	36102	shane.deaney@dnr.state.mn.us	1/1/2008	GPS		No
1249	-68928.37182	2461.32048	2063	Cokato - Well #3	A	TM	QBAA	1860006	10/27/2003	0	120.79	SA C2063	FRC	C	N	494	406177	4992030	Fire Station		Cokato	Cokato FD	Fire Dept ID (state assigned)	36105	symmerista@gmail.com	1/1/2008	GPS		Yes
1251	13583.11.39015	4133.33013	2065	Cokato - Well #5	A	TM	QBAA	1860006	10/27/2003	0	335.15	SA C2065	FRC	C	N	494	406177	4992030	Fire Station		Cokato	Cokato FD	Fire Dept ID (state assigned)	36105	symmerista@gmail.com	1/1/2008	GPS		Yes
807	83015.46173	1022.73428	1563	Conger - Well #1	A	TM	DCCM	1240006	10/27/2003	0	20.52	SA C1563	FRC	C	N	500	457405	4923135	Fire Station		Conger	Conger FD	Fire Dept ID (state assigned)	24105	Chris.Watson@state.mn.us	1/1/2008	GPS		Yes
1163	275998.71193	2448.33798	1942	Cook - Well #1	A	TM	QBAA	1680009	10/27/2003	0	117.57	SA C1942	FRC	C	N	905	525486	5299930	Fire Station		Cook	Cook FD	Fire Dept ID (state assigned)	38118	symmerista@gmail.com	1/1/2008	GPS		Yes
1028	80752.23782	1008.33696	1774	Currie - Well #3	A	TM	QBAA	1510003	10/27/2003	0	19.96	SA C1777	FRC	C	N	601	286563	4883931	Fire Station		Currie (new)	Currie (new) FD	Fire Dept ID (state assigned)	31103	Greg.FORFM.Johnson@dnr.state.mn.us	1/1/2008	GPS		No
1029	109650.46250	1176.43632	1775	Currie - Well #4	A	TM	QBAA	1510003	10/27/2003	0	27.15	SA C1775	FRC	C	N	601	286563	4883931	Fire Station		Currie (new)	Currie (new) FD	Fire Dept ID (state assigned)	31103	Greg.FORFM.Johnson@dnr.state.mn.us	1/1/2008	GPS		No
777	36730.48238	1581.25482	1435	Cyguna - Well #1	A	TM	QBAA	1180011	10/27/2003	0	9.08	SA C1435	FRC	C	N	336	423181	5151947	Fire Station		Cyguna	Cyguna FD	Fire Dept ID (state assigned)	18104	symmerista@gmail.com	1/1/2008	GPS		Yes
643	560400.57813	4025.71358	1330	Darfur 2	A	F	PWSK	1830002	5/9/2003	210C05	139.48	SA C1330	AM	S	Y	641	352779	4873340	Fire Station		Darfur	Darfur FD	Fire Dept ID (state assigned)	33102		1/1/2008	FSA		Yes
134	1103936.76563	5BCB.61960	332	Dassel	A	TM	QBAA	1470003	10/17/2002	210C20	272.79	SA C0332	AM	S	Y	183	387070	4992738	Fire Station		Dassel	Dassel FD	Fire Dept ID (state assigned)	17102	shane.deaney@dnr.state.mn.us	1/1/2008	GPS		Yes
1071	78561.30167	5348.59392	1830	Deer Creek - Well #1	A	TM	QBAA	1560007	10/27/2003	0	19.41	SA C1830	FRC	C	N	252	321643	5143142	Fire Station		Deer Creek	Deer Creek Fire and Resc	Fire Dept ID (state assigned)	36102	symmerista@gmail.com	1/1/2008	GPS		Yes
1201	50360.22905	796.68306	1999	DeGraff - Well #2	A	TM	QBAA	1760004	10/27/2003	0	12.45	SA C1999	FRC	C	N	180	395366	5013039	Fire Station		DegraF	DegraF FD	Fire Dept ID (state assigned)	76105	shane.deaney@dnr.state.mn.us	1/1/2008	GPS		Yes
1252	795866.82024	5166.43447	2088	Delano - Well #7	A	TM	QBAA	1860007	10/27/2003	0	196.66	SA C2088	FRC	C	N	488	437942	4987937	Fire Station		Delano	Delano FD	Fire Dept ID (state assigned)	36108	symmerista@gmail.com	1/1/2008	GPS		No
1253	1520883.36890	4300.22041	2087	Delano - Well #8	A	TM	QBAA	1860007	10/27/2003	0	378.04	SA C2087	FRC	C	N	488	437942	4987937	Fire Station		Delano	Delano FD	Fire Dept ID (state assigned)	36108	symmerista@gmail.com	1/1/2008	GPS		Nu
1254	918138.40618	5401.03809	2089	Delano - Well #9	A	TM	QBAA	1860007	10/27/2003	0	228.88	SA C2089	FRC	C	N	488	437942	4987937	Fire Station		Delano	Delano FD	Fire Dept ID (state assigned)	36108	symmerista@gmail.com	1/1/2008	GPS		Nu
629	1388905.1328	5140.37527	1286	Dexter	A	TM	DCCM	1580006	5/9/2003	210C03	341.23	SA C1286	AM	S	Y	94	523761	4943636	Fire Station		Dexter	Dexter FD	Fire Dept ID (state assigned)	50101	Chris.Watson@state.mn.us	1/1/2008	GPS		Yes
11	8894215.89228	12282.35715	11	Dilworth	A	TM	QBAA	1140003	5/9/2002	210L20	1854.17	SA L0011	AM	S	Y	325	217858	5159022	Fire Station		Dilworth	Dilworth FD	Fire Dept ID (state assigned)	14102	symmerista@gmail.com	1/1/2008	GPS		Yes
790	560844.40816	2668.33008	1509	Dodge Center - Well #2	A	TM	CJDN	1200002	10/27/2003	0	139.61	SA C1509	FRC	C	N	58	51184	4875539	Fire Station		Dodge Center	Dodge Center FD	Fire Dept ID (state assigned)	20102	Chris.Watson@state.mn.us	1/1/2008	GPS		No
791	1148497.05039	5760.53700	1510	Dodge Center - Well #3	A	TM	CJDN	1200002	10/27/2003	0	261.82	SA C1510	FRC	C	N	58	51184	4875539	Fire Station		Dodge Center	Dodge Center FD	Fire Dept ID (state assigned)	20102	Chris.Watson@state.mn.us	1/1/2008	GPS		No
2	245862.99219	2268.31453	6	Donnelly	A	TM	QBAA	1750003	2/13/2002	210C20	60.58	SA C0006	AM	S	Y	927	2955.4	5084071	Fire Station		Donnelly	Donnelly FD	Fire Dept ID (state assigned)	75102	symmerista@gmail.com	1/1/2008	GPS		Yes
994	65177.25713	60E.61180	1738	Dunnell - Well #1	A	TM	QBAA	1480007	10/27/2003	0	16.08	SA C1738	FRC	C	N	648	356669	4924374	Fire Station		Dunnell	Dunnell FD	Fire Dept ID (state assigned)	46102		1/1/2008	FSA		Yes
995	65127.25713	60E.61302	1740	Dunnell - Well #2	A	TM	QBAA	1480002	10/27/2003	0	16.09	SA C1740	FRC	C	N	648	356669	4924374	Fire Station		Dunnell	Dunnell FD	Fire Dept ID (state assigned)	46102		1/1/2008	FSA		Yes
70	1166503.04375	4414.03601	141	Akeley	A	TM	QBAA	1280001	9/23/2002	210C20	208.79	SA C0141	AM	S	Y	345	360269	5203920	Fire Station		Akeley	Eastern Hubbard City FD	Fire Dept ID (state assigned)	29106	dave.schuller@dnr.state.mn.us	1/1/2008	GPS		Yes
550	1029058.5070	5178.03003	1172	Echo	A	TM	QBAA	1070003	5/9/2003	210C20	330.32	SA C1172	AM	S	Y	917	380203	4943233	Fire Station		Echo	Echo FD	Fire Dept ID (state assigned)	37103	symmerista@gmail.com	1/1/2008	GPS		Yes
1194	348585.17754	2265.31569	1986	Ellendale - Well #1	A	TM	OWQG	1740003	10/27/2003	0	66.14	SA C1985	FRC	C	N	666	475866	4957733	Fire Station		Ellendale	Ellendale FD	Fire Dept ID (state assigned)	74102	Chris.Watson@state.mn.us	1/1/2008	GPS		No
1195	415604.71775	2268.21800	1987	Ellendale - Well #2	A	TM	OGAL	1740003	10/27/2003	0	102.70	SA C1987	FRC	C	N	666	475866	4957733	Fire Station		Ellendale	Ellendale FD	Fire Dept ID (state assigned)	74102	Chris.Watson@state.mn.us	1/1/2008	GPS		No
806	442869.99494	2362.03375	1527	Elmore - Well #2	A	TM	OGAL	1220004	10/27/2003	0	109.44	SA C1527	FRC	C	N	704	412050	4817548	Fire Station		Elmore	Elmore FD	Fire Dept ID (state assigned)	22105		1/1/2008	FSA		No
997	268158.24858	1985.01856	1880	Elysian - Well #2	A	TM	CJUN	1410003	10/27/2003	0	71.18	SA C1880	FRC	C	N	566	449242	4948134	Fire Station		Elysian	Elysian FD	Fire Dept ID (state assigned)	40102	Chris.Watson@state.mn.us	1/1/2008	GPS		Yes
1000	2701.02.39982	1047.03206	1564	Emmons - Well #2	A	TM	OFCJ	1240007	10/27/2003	0	69.91	SA C1564	FRC	C	N	500	460588	4913536	Fire Station		Emmons	Emmons FD	Fire Dept ID (state assigned)	24106	Chris.Watson@state.mn.us	1/1/2008	GPS		Yes
163	68878.78663	5833.71010	264	Erskine	A	TM	QWTA	1880005	11/14/2002	210C20	140.58	SA C0264	AM	S	Y	923	273988	5088836	Fire Station		Erskine	Erskine FD	Fire Dept ID (state assigned)	30105	symmerista@gmail.com	1/1/2008	GPS		Yes
760	108248.93393	1167.83136	1478	Felton - Well #1	A	TM	QBAA	1140012	10/27/2003	0	39.75	SA C1478	FRC	C	N	263	233942	5213751	Fire Station		Felton	Felton FD	Fire Dept ID (state assigned)	14103	martin.willy@dnr.state.mn.us	1/1/2008	GPS		Yes
1002	174611.06218	1463.13698	1880	Fisher - Well #2	A	TM	QBAA	1680009	10/27/2003	0	49.16	SA C1880	FRC	C	N	933	215498	5301213	Fire Station		Fisher	Fisher FD	Fire Dept ID (state assigned)	38107	kurt.castella@state.mn.us	1/1/2008	GPS		Yes
221	1631.0.00.49048	7284.94152	301	Forestan	A	TM	QBAA	1480014	5/12/2003	210L03	4.24	SA L0301	AM	U	Y	848	444088	4963078	Fire Station		Forestan	Forestan FD	Fire Dept ID (state assigned)	48101	symmerista@gmail.com	1/1/2008	GPS		SA
820	227248.64734	1852.02906	1841	Fountain - Well #3	A	TM	CJDN	1230003	10/27/2003	0	66.16	SA C1841	FRC	C	N	106	5805.6	4943535	Fire Station		Fountain	Fountain FD	Fire Dept ID (state assigned)	23103	Chris.Watson@state.mn.us	1/1/2008	GPS		Yes
1148	308888.17888	5141.44077	1411	Franklin - well #4	A	TM	QHAA	1880005	10/27/2003	0	71.75	SA C1411	FRC	C	N	511	394781	4943748	Fire Station		Franklin	Franklin FD	Fire Dept ID (state assigned)	30105	shane.deaney@dnr.state.mn.us	1/1/2008	GPS		No
628	953112.56250	4569.23811	1285	Freeborn	A	TM	OGAL	1240008	5/9/2003	210L03	235.52	SA C1285	AM	S	Y	575	454688	4843035	Fire Station		Freeborn	Freeborn FD	Fire Dept ID (state assigned)	24107	Chris.Watson@state.mn.us	1/1/2008	GPS		Yes
808	137965.37865	1318.33480	1530	Frost - Well #2	A	TM	OGAL	1220007	10/27/2003	0	24.09	SA C1530	FRC	C	N	707	4254	4822112	Fire Station		Frost	Frost FD	Fire Dept ID (state assigned)	22106		1/1/2008	FSA		No
810	14818.80506	632.22244	1531	Frost - Well #3	A	TM	OGAL	1220007	10/27/2003	0	3.67	SA C1531	FRC	C	N	707	4254	4822112	Fire Station		Frost	Frost FD	Fire Dept ID (state assigned)	22106		1/1/2008	FSA		No
809	600000.88405	5612.33333	1665	Geneva - Well #1	A	TM	OGAL	1240009	10/27/2003	0	133.88	SA C1665	FRC	C	N	664	478530	4862939	Fire Station		Geneva	Geneva FD	Fire Dept ID (state assigned)	24108	Chris.Watson@state.mn.us	1/1/2008	GPS		Yes
1174	194990.31875	1567.34170	1964	Gibbon - Well #1	A	TM	QBAA	1730004	10/27/2003	0	48.18	SA C1964	FRC	C	N	688	376882	4933242	Fire Station		Gibbon	Gibbon FD	Fire Dept ID (state assigned)	72103	gregrussell@dnr.state.mn.us	1/1/2008	GPS		Yes
1175	66116.56882	60E.91730	1965	Gibbon - Well #2	A	TM	QBAA	1730004	10/27/2003	0	16.10	SA C1965	FRC	C	N	688	376882	4933242	Fire Station		Gibbon	Gibbon FD	Fire Dept ID (state assigned)	72103	gregrussell@dnr.state.mn.us	1/1/2008	GPS		Yes
1176	300049.09980	1944.33682	1966	Gibbon - Well #3	A	TM	QBAA	1730004	10/27/2003	0	74.18	SA C1966	FRC	C	N	688	376882	4933242	Fire Station		Gibbon	Gibbon FD	Fire Dept ID (state assigned)	72103	gregrussell@dnr.state.mn.us	1/1/2008	GPS		Yes
972	836823.3556	5246.93847	1716	Glencoe - Well #2	A	TM	CMSH	1430003	10/27/2003	0	206.78	SA C1716	FRC	C	N	453	408580	4957945	Fire Station		Glencoe	Glencoe FD	Fire Dept ID (state assigned)	43102	shane.deaney@dnr.state.mn.us	1/1/2008	GPS		No
973	1563186.68678	6427.75152	1717	Glencoe - Well #1	A	TM	CMSH	1430003	10/27/2003	0	366.27	SA C1717	FRC	C	N	153	408580	4957945	Fire Station		Glencoe	Glencoe FD	Fire Dept ID (state assigned)	43102	shane.deaney@dnr.state.mn.us	1/1/2008	GPS		No

2233.0063

STATE_02826875

TABLE 7
MUNICIPAL FIRE DEPARTMENTS LOCATED IN SOURCE WATER ASSESSMENT (SWA) AREAS
October 15, 2008

FID SWA	AREA	PERIMETER	SWA ID	SWA NAME	SWA STAT C	CZ CLASS C	AQUIFER C	FVEGID	VCDATE	MDH HY C	ACRES	SWA C	NCTII CODE	AQ TYPE	AQ DENS C	FID 230801 X	Y	FT	SUB	CITY	NAME	OWNER	UNITC	CONTRIB	DATE	META_LINK	STA	FIREFIGHTING FOAM QUESTIONNAIRE RECEIVED?
1191	1213906.86282	5969.31668	3389	Seneca Foods Corporation - Well #1 Downtown	A	TM	QBAA	5140001	10/27/2003	0	209.72	SA-C3395	FRC	C	N	153	4186580	4957915	Fire Station	Glencoe	Glencoe FD	Fire Dept ID (state assigned)	13102	shane.deaney@dnr.state.mn.us	1/1/2008	GPS		No
787	981184.402726	1111.41525	1485	Gornick - Well #2	A	TM	QBAA	1150005	10/27/2003	0	24.49	SA-C1485	FRC	C	N	9727	3115562	5293352	Fire Station	Gornick	Gornick Fire and Rescue	Fire Dept ID (state assigned)	15103	symmersa@gmail.com	1/1/2008	GPS		No
697	257121.39659	1861.33712	1401	Good Thunder - Well #2	A	TM	CRG	1070005	10/27/2003	0	63.69	SA-C1401	FRC	C	N	708	4114464	4872994	Fire Station	Good Thunder	Good Thunder FD	Fire Dept ID (state assigned)	37103		1/1/2008	FSA		Yes
1077	81349.77863	1012.33087	1843	Goodridge - Well #1	A	TM	QBAA	1570001	10/27/2003	0	20.10	SA-C1843	FRC	C	N	946	291272	5333128	Fire Station	Goodridge	Goodridge FD	Fire Dept ID (state assigned)	57101	symmersa@gmail.com	1/1/2008	GPS		Yes
986	123316.31473	1246.42867	1741	Granada - Well #2	A	TM	QBAA	1460004	10/27/2003	0	39.47	SA-C1741	FRC	C	N	700	391380	4833923	Fire Station	Granada	Granada FD	Fire Dept ID (state assigned)	46104	symmersa@gmail.com	1/1/2008	GPS		Yes
97	769109.62914	2839.53139	165	Grey Eagle	A	TM	QBAA	1770005	10/17/2003	210C07	116.99	SA-C1665	AM	S	Y	910	361197	5073951	Fire Station	Grey Eagle	Grey Eagle FD	Fire Dept ID (state assigned)	77105	symmersa@gmail.com	1/1/2008	FSA		Yes
1007	89648.89170	1062.74836	1752	Grove City - Well #3	A	TM	QBAA	1470007	10/27/2003	0	22.15	SA-C1752	FRC	C	N	1341	367877	5001138	Fire Station	Grove City	Grove City FD	Fire Dept ID (state assigned)	47101	shane.deaney@dnr.state.mn.us	1/1/2008	GPS		Yes
1052	184584.41327	1524.33412	1804	Halstad - Well #2	A	TM	QBAA	1540003	10/27/2003	0	46.61	SA-C1804	FRC	C	N	372	211106	5251248	Fire Station	Halstad	Halstad FD	Fire Dept ID (state assigned)	54104	kurt.castello@state.mn.us	1/1/2008	GPS		Yes
1273	71015.02148	1041.23398	2091	Hanley Falls - Well #2	A	TM	KRET	1870005	10/27/2003	0	17.71	SA-C2091	FRC	C	N	620	292304	4902230	Fire Station	Hanley Falls	Hanley Falls FD	Fire Dept ID (state assigned)	37102	shane.deaney@dnr.state.mn.us	1/1/2008	GPS		Yes
940	147874.85417	1365.37241	1566	Hartland - Well #3	A	TM	QOAL	1240011	10/27/2003	0	36.57	SA-C1566	FRC	C	N	576	4608.7	4853034	Fire Station	Hartland	Hartland FD	Fire Dept ID (state assigned)	24110	Chris.Watson@state.mn.us	1/1/2008	GPS		Yes
702	350726.591483	2112.34257	1511	Hayfield - Well #7	A	TM	DCCG	1200004	10/27/2003	0	86.67	SA-C1511	FRC	C	N	581	571138	4858453	Fire Station	Hayfield	Hayfield FD	Fire Dept ID (state assigned)	70103		1/1/2008	FSA		Yes
1054	27760.87995	681.33973	1806	Hendrum - Well #1	A	TM	QBAA	1540004	10/27/2003	0	6.86	SA-C1806	FRC	C	N	365	211788	5241575	Fire Station	Hendrum	Hendrum FD	Fire Dept ID (state assigned)	54105	martin.willey@dnr.state.mn.us	1/1/2008	GPS		Yes
1055	31729.21440	632.24707	1807	Hendrum - Well #2	A	TM	QBAA	1540004	10/27/2003	0	7.84	SA-C1807	FRC	C	N	365	211788	5241575	Fire Station	Hendrum	Hendrum FD	Fire Dept ID (state assigned)	54105	martin.willey@dnr.state.mn.us	1/1/2008	GPS		Yes
537	398985.37500	2313.94990	1135	Hewitt	A	TM	QBAA	1770015	2/27/2003	210C07	98.84	SA-C1135	AM	S	Y	730	338356	5132426	Fire Station	Hewitt	Hewitt FD	Fire Dept ID (state assigned)	77106	symmersa@gmail.com	1/1/2008	GPS		Yes
211	939920.48875	5574.71848	229	Hill City	A	TM	QWTA	1010011	1/13/2002	210C20	230.78	SA-C0229	AM	S	Y	349	454551	5204395	Fire Station	Hill City	Hill City FD	Fire Dept ID (state assigned)	31102	symmersa@gmail.com	1/1/2008	GPS		Yes
664	326639.93594	2096.73615	1187	Hinckley 3	A	TM	PWHN	1590005	4/3/2003	210C06	60.47	SA-C1187	AM	S	Y	971	504491	5095634	Fire Station	Hinckley	Hinckley FD	Fire Dept ID (state assigned)	59105	symmersa@gmail.com	1/1/2008	GPS		Yes
757	47519.52239	772.73370	1475	Hittendal - Well #3	A	TM	QBAA	1140007	10/27/2003	0	11.74	SA-C1475	FRC	C	N	346	252200	5207827	Fire Station	Hittendal	Hittendal FD	Fire Dept ID (state assigned)	14108	martin.willey@dnr.state.mn.us	1/1/2008	GPS		Yes
760	120089.02778	1542.79370	1476	Hittendal - Well #4	A	TM	QBAA	1140007	10/27/2003	0	29.13	SA-C1476	FRC	C	N	346	252200	5207027	Fire Station	Hittendal	Hittendal FD	Fire Dept ID (state assigned)	14108	martin.willey@dnr.state.mn.us	1/1/2008	GPS		Yes
261	2622925.76563	10507.31261	453	Holdingford	A	TM	QBAA	1730014	1/13/2003	210C 8	648.14	SA-C0453	AM	S	Y	818	385226	5065021	Fire Station	Holdingford	Holdingford FD	Fire Dept ID (state assigned)	73108	jeff.haas@dnr.state.mn.us	1/1/2008	GPS		Yes
880	890219.41878	5284.32202	1017	Isanti - Well #1	A	TM	CIGM	1380006	10/27/2003	0	211.98	SA-C1017	FRC	C	N	7901	480029	5037071	Fire Station	Isanti	Isanti FD#1	Fire Dept ID (state assigned)	30104	dave.schuller@dnr.state.mn.us	1/1/2008	GPS		Yes
897	1068711.50298	5665.93032	1628	Jackson - Well #5	A	TM	QBAA	1320003	10/27/2003	0	263.59	SA-C1628	FRC	C	N	645	339560	4831999	Fire Station	Jackson	Jackson FD	Fire Dept ID (state assigned)	32103		1/1/2008	FSA		Yes
908	370611.58729	2160.81037	1637	Kandiyohi - Well #2	A	TM	QBAA	1340003	10/27/2003	0	51.58	SA-C1637	FRC	C	N	438	348178	4989538	Fire Station	Kandiyohi	Kandiyohi FD	Fire Dept ID (state assigned)	34103	shane.deaney@dnr.state.mn.us	1/1/2008	GPS		Yes
736	2106227.17879	8151.21609	1514	Kasson - Well #4	A	TM	CJDN	1230005	10/27/2003	0	540.46	SA-C1514	FRC	C	N	61	520241	4971154	Fire Station	Kasson	Kasson FD	Fire Dept ID (state assigned)	20104	Chris.Watson@state.mn.us	1/1/2008	GPS		Yes
867	176571.38725	1487.71868	1585	Kelliher - Well #4	A	TM	QBAA	1140017	10/27/2003	0	45.37	SA-C1585	FRC	C	N	1434	381143	5431867	Fire Station	Kelliher	Kelliher FD	Fire Dept ID (state assigned)	14103	symmersa@gmail.com	1/1/2008	GPS		Yes
849	215697.08622	1648.43937	1575	Kenyon - Well #1	A	TM	CJDN	1230007	10/27/2003	0	23.30	SA-C1575	FRC	C	N	21	5812.4	4900131	Fire Station	Kenyon	Kenyon FD	Fire Dept ID (state assigned)	20104	Chris.Watson@state.mn.us	1/1/2008	GPS		Yes
1	708887.71675	5674.70396	6	Kerkhoven	A	TM	QRAA	1790006	2/15/2002	210C20	171.84	SA-C0006	AM	S	Y	196	319760	5007740	Fire Station	Kerkhoven	Kerkhoven FD	Fire Dept ID (state assigned)	76107	shane.deaney@dnr.state.mn.us	1/1/2008	GPS		Yes
71	827721.11719	5072.92877	132	Kettle River	A	TM	QBAA	1090008	7/23/2001	210C20	204.49	SA-C0132	AM	S	Y	210	508392	5143176	Fire Station	Kettle River	Kettle River FD	Fire Dept ID (state assigned)	09105	symmersa@gmail.com	1/1/2008	GPS		Yes
640	479781.93750	2515.05112	1320	Kimball	A	TM	QBAA	1730015	5/13/2003	210C 8	118.56	SA-C1320	AM	S	Y	766	398020	5015530	Fire Station	Kimball	Kimball FD	Fire Dept ID (state assigned)	72109	symmersa@gmail.com	1/1/2008	GPS		Yes
688	5385.801305	267.14369	1483	Lake Crystal - Well #3	A	TM	MTHL	1070006	10/27/2003	0	1.33	SA-C1483	FRC	C	N	708	402260	4884279	Fire Station	Lake Crystal	Lake Crystal FD	Fire Dept ID (state assigned)	07104	gregrussell@dnr.state.mn.us	1/1/2008	GPS		No
700	850121.60604	5474.33131	1404	Lake Crystal - Well #4	A	TM	CHTS	1070006	10/27/2003	0	239.76	SA-C1404	FRC	C	N	700	402260	4884279	Fire Station	Lake Crystal	Lake Crystal FD	Fire Dept ID (state assigned)	07104	gregrussell@dnr.state.mn.us	1/1/2008	GPS		No
417	6431667.3707	9314.43798	867	Shoreview 7	A	TM	CLSI	1870001	1/24/2003	210C 1	1559.78	SA-C0867	AM	S	Y	1734	496867	4981174	Fire Station	Shoreview	Lake Johanna FD #7	Fire Dept ID (state assigned)	62113	symmersa@gmail.com	1/1/2008	GPS		Yes
908	1113196.45673	1153.87388	1639	Lake Lillian - Well #1	A	TM	QBAA	1340004	10/27/2003	0	27.96	SA-C1639	FRC	C	N	510	351695	4973334	Fire Station	Lake Lillian	Lake Lillian FD	Fire Dept ID (state assigned)	34104	shane.deaney@dnr.state.mn.us	1/1/2008	GPS		Yes
247	845892.12500	4068.93275	421	Lake Park	A	TM	QBAA	1030016	2/13/2003	210C07	209.02	SA-C0421	AM	S	Y	320	284187	5197153	Fire Station	Lake Park	Lake Park FD	Fire Dept ID (state assigned)	03105	martin.willey@dnr.state.mn.us	1/1/2008	GPS		Yes
360	248901.68750	1764.83106	674	Onamia	A	TM	CJDN	1270041	8/1/2002	210C 1	61.51	SA-C0674	AM	S	Y	508	451161	4975308	Fire Station	Navarre	Long Lake FD jurisdiction	Fire Dept ID (state assigned)	27133	Chris.Watson@state.mn.us	1/1/2008	GPS		No
070	822256.26824	5230.63867	1697	Orono - Well #2	A	TM	QBAA	1270041	10/27/2003	0	203.43	SA-C1697	FRC	C	N	500	461161	4973000	Fire Station	Navarre	Long Lake FD jurisdiction	Fire Dept ID (state assigned)	27133	Chris.Watson@state.mn.us	1/1/2008	GPS		No
1089	80197.58995	1270.05301	1070	Lowry - Well #2	A	TM	QBAA	1610007	10/27/2003	0	14.00	SA-C1070	FRC	C	N	024	3040 0	5084300	Fire Station	Lowry	Lowry FD	Fire Dept ID (state assigned)	31103	gregrussell@dnr.state.mn.us	1/1/2008	GPS		Yes
618	1329341.78906	6054.33900	1273	Lyle	A	TM	DCCM	1590011	5/9/2003	210C03	328.48	SA-C1273	AM	S	Y	75	504580	4813978	Fire Station	Lyle	Lyle FD	Fire Dept ID (state assigned)	59108		1/1/2008	FSA		Yes
942	837163.57616	2248.73202	1678	Madison - Well #3	A	TM	QBAA	1370004	10/27/2003	0	207.02	SA-C1678	FRC	C	N	482	2+8262	4983019	Fire Station	Madison	Madison FD	Fire Dept ID (state assigned)	37105	shane.deaney@dnr.state.mn.us	1/1/2008	GPS		No
701	3175710.26410	9010.02787	1405	Madison Lake - Well #2	A	TM	MTPL	1070007	10/27/2003	0	78.48	SA-C1405	FRC	C	N	566	434878	4894813	Fire Station	Madison Lake	Madison FD	Fire Dept ID (state assigned)	37105		1/1/2008	FSA		Yes
943	78010.33745	1014.42141	1680	Manchester - Well #1	A	TM	UPCA	1240014	10/27/2003	0	10.28	SA-C1680	FRC	C	N	580	463681	4841300	Fire Station	Manchester	Manchester FD	Fire Dept ID (state assigned)	24114	Chris.Watson@state.mn.us	1/1/2008	GPS		Yes
703	438928.93664	2358.12093	1407	Mapleton - Well #2	A	TM	OPCJ	1070013	10/27/2003	0	107.23	SA-C1407	FRC	C	N	695	423368	4861334	Fire Station	Mapleton	Mapleton FD	Fire Dept ID (state assigned)	37107	tom.romanec@dnr.state.mn.us	1/1/2008	GPS		Yes
704	440868.98363	2354.83192	1408	Mapleton - Well #3	A	TM	OPCJ	1070013	10/27/2003	0	109.74	SA-C1408	FRC	C	N	695	423368	4861334	Fire Station	Mapleton	Mapleton FD	Fire Dept ID (state assigned)	37107	tom.romanec@dnr.state.mn.us	1/1/2008	GPS		Yes
617	956939.92187	4436.75871	1272	Mapleview	A	TM	ODCL	1590013	5/9/2003	210C03	211.75	SA-C1272	AM	S	Y	20	501735	4837539	Fire Station	Mapleview	Mapleview FD	Fire Dept ID (state assigned)	59109	Chris.Watson@state.mn.us	1/1/2008	GPS		No
1015	1267817.32832	5906.65234	1761	Austin - Well #11	A	TM	OPCJ	1590002	10/27/2003	0	313.38	SA-C1761	FRC	C	N	20	501735	4837539	Fire Station	Mapleview	Mapleview FD	Fire Dept ID (state assigned)	59109	Chris.Watson@state.mn.us	1/1/2008	GPS		No
605	7706082.61692	11606.30939	1212	Town and Country Mobile Home Park 2	A	TM	QBAA	1630016	4/17/2003	210C20	1160.08	SA-C1212	AM	S	Y	31	487235	4992250	Fire Station	Maplewood	Maplewood #7	Fire Dept ID (state assigned)	62110	symmersa@gmail.com	1/1/2008	GPS		Yes
680	4924468.07037	12396.38304	1213	Town and Country Mobile Home Park 2	A	TM	QBAA	1630016	4/17/2003	210C20	1216.89	SA-C1213	AM	S	Y	94	487235	4982228	Fire Station	Maplewood	Maplewood #7	Fire Dept ID (state assigned)	62118	symmersa@gmail.com	1/1/2008	GPS		Yes
278	835110.27344	5565.64701	487	Maynard	A	TM	QBAA	1120002	2/13/2003	210C 8	231.07	SA-C0487	AM	S	Y	523	384963	4975539	Fire Station	Maynard	Maynard FD	Fire Dept ID (state assigned)	12102	shane.deaney@dnr.state.mn.us	1/1/2008	GPS		Yes
782	1337715.11788	5753.84881	327	Mazeppa	A	TM	OPDL	1790009	1/14/2003	210L20	324.97	SA-C0327	AM	S	Y	181	526236	4940412	Fire Station	Mazeppa	Mazeppa FD	Fire Dept ID (state assigned)	78104	Chris.Watson@state.mn.us	1/1/2008	GPS		Yes
1212	335188.08578	2054.95090	2010	Menahga - Well #1	A	TM	QBAA	1800001	10/27/2003	0	62.83	SA-C2010	FRC	C	N	316	339830	5183234	Fire Station	Menahga	Menahga FD	Fire Dept ID (state assigned)	30101	dave.schuller@dnr.state.mn.us	1/1/2008	GPS		Yes
1213	221801.31373	1668.83803	2011	Menahga - Well #3	A	TM	QBAA	1800001	10/27/2003	0	64.61	SA-C2011	FRC	C	N	316	339830	5183234	Fire Station	Menahga	Menahga FD	Fire Dept ID (state assigned)	30101	dave.schuller@dnr.state.mn.us	1/1/2008	GPS		Yes
867	92377.68031	1078.73938	1732	Middle River - Well #2	A	TM	QBAA	1450006	10/27/2003	0	22.83	SA-C1732	FRC	C	N	949	266066	5366335	Fire Station	Middle River	Middle River FD	Fire Dept ID (state assigned)	45104	symmersa@gmail.com	1/1/2008	GPS		Yes
1290	80741.78641	1068.57869	2074	Montrose - Well #2	A	TM	QBAA	1860016	10/27/2003	0	19.95	SA-C2074	FRC	C	N	491	428129	4993912	Fire Station	Montrose	Montrose FD	Fire Dept ID (state assigned)	36110		1/1/2008	FSA		Yes
1261	105419.57634	1152.43860	2075	Montrose - Well #3	A	TM	QBAA	1860016	10/27/2003	0	26.05	SA-C2075	FRC	C	N	491	428129	4993912	Fire Station	Montrose	Montrose FD	Fire Dept ID (state assigned)	36110		1/1/2008	FSA		Yes
105	777339.28125	5740.32768	185	Mora	A	TM	QBAA	1390001	10/9/2002	210C08	192.23	SA-C0185	AM	S	Y	804	477120	5083436	Fire Station	Mora	Mora Fire Dept.	Fire Dept ID (state assigned)	33102	symmersa@gmail.com	1/1/2008	GPS		Yes
769	142306.50365	1938.43642	1487	Mountain Lake - Well #2	A	TM	PWSK	1170003	10/27/2003	0	35.14	SA-C1487	FRC	C	N	840	3452 8	4867098	Fire Station	Mountain Lake	Mountain Lake FD	Fire Dept ID (state assigned)	17103	symmersa@gmail.com	1/1/2008	FSA		No
101	4818826.234.38	11467.78311	174	Mt Iron	A	F	PESI	1680035	1/3/2002	210C07	1150.01	SA-C0174	AM	S	Y	334	525501	5269731	Fire Station	Mt. Iron	Mt. Iron FD	Fire Dept ID (state assigned)	38142		1/1/2008	FSA		Yes
1202	1332207.9819	7266.34958	2000	Murdock - Well #3	A	TM	QBAA	1780007	10/27/2003	0	82.95	SA-C2000	FRC	C	N	740	312067	5017171	Fire Station	Murdock	Murdock - L	Fire Dept ID (state assigned)	76108	shane.deaney@dnr.state.mn.us	1/1/2008	GPS		No
173	692315.76563	5506.33348	287	Myrtle	A	TM	DCVA	1240015	12/31/2002	210C20	171.08	SA-C0287	AM	S	Y	137	486876	4823431	Fire Station	Myrtle	Myrtle FD	Fire Dept ID (state assigned)	24115	Chris.Watson@state.mn.us	1/1/2008	GPS		Yes
1147	177809.27299	1460.33807	1923	Nerstrand - Well #1	A	TM	OPDC	1060009	10/27/2003	0	49.95	SA-C1923	FRC	C	N	23	494100	4909836	Fire Station	Nerstrand	Nerstrand FD	Fire Dept ID (state assigned)	30105	Chris.Watson@state.mn.us	1/1/2008	GPS		Yes
372	6726347.93750	10204.36738	351	New Brighton 13-15	A	TM		1820009	1/01/2000	210C 1	1660.63	SA-C0351	AM	S	Y	150	484807	4988832	Fire Station	New Brighton	New Brighton FD	Fire Dept ID (state assigned)	62107	symmersa@gmail.com	1/1/2008	GPS		Yes
743	455474.56761	2567.81585	771	New Germany	A	TM	CRG	1180007	9/1/2003	210C 1	11.76	SA-C1771	AM	S	Y	475	475867	4971576	Fire Station	New Germany	New Germany FD	Fire Dept ID (state assigned)	10107		1/1/2008	FSA		Yes
1218	212420.03949	1635.33904	2016	New Richland - Well #1	A	TM	MTPL	1810002	10/27/2003	0	52.49	SA-C2016	FRC	C	N	577	460373	4963344	Fire Station	New Richland	New Richland FD	Fire Dept ID (state assigned)	31102	Chris.Watson@state.mn.us	1/1/2008	GPS		Yes
1219	190384.76000	1560.31597	2017	New Richland - Well #2	A	TM	OOTT	1010002	10/27/2003	0	47.79	SA-C2017	FRC	C	N	577	460373	4963344	Fire Station	New Richland	New Richland FD	Fire Dept ID (state assigned)	31102	Chris.Watson@state.mn.us	1/1/2008	GPS		Yes
1220	200900.36770	1570.33903	2018	New Richland - Well #3	A	TM	OOTT	1010002	10/27/2003	0	51.07	SA-C2018	FRC	C	N	577	460373	4963344	Fire Station	New Richland	New Richland FD	Fire Dept ID (state assigned)	31102	Chris.Watson@state.mn.us	1/1/2008	GPS		Yes
1072	2056590.70983	7659.31586	1834	New York Mills - We #3	A	TM	QBAA	1560017	10/27/2003	0	69.82	SA-C1834	FRC	C	N	391	317674	5154437	Fire Station	New York Mills	New York Mills FD	Fire Dept ID (state assigned)	56110	gregrussell@dnr.state.mn.us	1/1/2008	GPS		Yes
1073	221628.58731	1670.37538	1835	New York Mills - We #4	A	TM	QBAA	1560017	10/27/2003	0	54.77	SA-C1835	FRC	C	N	391	317674	5154437	Fire Station	New York Mills	New York Mills FD	Fire Dept ID (state assigned)	56110	gregrussell@dnr.state.mn.us	1/1/2008	GPS		Yes
999	109170.27445	1172.73059	1734	Newfolden - Well #3	A	TM	QBAA	1450007	10/27/2003	0	26.98	SA-C1734	FRC	C	N	948	253501	5361221	Fire Station	Newfolden	Newfolden FD	Fire Dept ID (state assigned)	45105	symmersa@gmail.com	1/1/2008	GPS		Yes
1038	2944845.02178	9359.94898	1784	North Mankato - Well #6	A	TM	MTHL	1520005	10/27/2003	0	727.89	SA-C1784	FRC	C	N	686	417964	4991040	Fire Station	North Mankato	North Mankato FD #1	Fire Dept ID (state assigned)	52104	symmersa@gmail.com	1/1/2008	GPS		Yes
1039	5502573.9709	9208.07666	1785	North Mankato - Well #7	A	TM	MTPL	1520005	10/27/2003	0	1269.71	SA-C1785	FRC	C	N	600	416921	4992050	Fire Station	North Mankato	North Mankato FD #2	Fire Dept ID (state assigned)	52104	symmersa@gmail.com	1/1/2008	GPS		Yes
1040	2223408.38317	5469.14138	1786	North Mankato - Well #8	A	TM	ONSH	1520005	10/27/2003	0	523.88	SA-C1786	FRC	C	N	688	416921	4992050	Fire Station	North Mankato	North Mankato FD #2	Fire Dept ID (state assigned)	52104	symmersa@gmail.com	1/1/2008	GPS		Yes
731	961302.54989	5460.42583	1442	Norwood-Young America - Well #3 South	A	TM	CHTS	1100019	10/27/2003	0	237.59	SA-C1442	FRC	C	N	446	426444	4957539	Fire Station	Norwood	Norwood FD	Fire Dept ID (state assigned)	10108	symmersa@gmail.com	1/1/2008	GPS		Yes
347	1319227.71875	1263.53911	708	Norwood-Young America 2	A	TM	CFMS	1100019	9/1/2002	210C 1	12.53	SA-C0708	AM	S	Y	444	427895	4963132	Fire Station	Norwood	Young America FD	Fire Dept ID (state assigned)	10108	symmersa@gmail.com	1/1/2008	GPS		No
219	1204288.84375	2408.40869	369	Ogilvie	A	TM	QBAA	1380004	2/13/2003	210C20	276.61	SA-C0369	AM	S	Y	852	498940	5011171	Fire Station	Ogilvie	Ogilvie HU	Fire Dept ID (state assigned)	48105	symmersa@gmail.com	1/1/2008	GPS		Yes
827	288831.00037	1904.32019	1848	Outlander - Well #2	A	TM	OPCJ	1230008	10/27/2003	0	71.17	SA-C1648	FRC	C	N	108	546089	4823048	Fire Station	Outlander	Outlander FD	Fire Dept ID (state assigned)	23107	john.holley@state.mn.us	1/1/2008	GPS		Yes
708	1643841.41406	11484.54948	1411	Pemberton - Well #1	A	TM	OPLK	1110015	10/27/2003	0	21.31	SA-C1411	FRC	C	N	5761437.1	4941819	Fire Station	Pemberton	Pemberton FD	Fire Dept ID (state assigned)	17108		1/1/2008	FSA		No
138	2768880.3203	6143.33759	236	Rich Prairie Sewer and Water District	A	TM	CMTA	1480004	10/22/2002	210C20	684.20	SA-C0236	AM	S	Y	876	414502	5092037	Fire Station	Pierz	Pierz FD	Fire Dept ID (state assigned)	49106	dave.schuller@dnr.state.mn.us	1/1/2008	GPS		Yes
1083	9261.88036	541.73188	1849	Pine City - Well #1	A	TM	QBAA	1580008	10/27/2003	0	2.29	SA-C1849	FRC	C	N	803	502365	5074639	Fire Station	Pine City	Pine City FD	Fire Dept ID (state assigned)	58107	symmersa@gmail.com	1/1/2008	GPS		Yes
1084	193.649.989.26	4933.11660	1850	Pine City - Well #3	A	TM	PWHF	1580008	10/27/2003	0	477.32	SA-C1850	FRC	C	N	803	502365	5074639	Fire Station	Pine City	Pine City FD	Fire Dept ID (state assigned)	58107	symmersa@gmail.com	1/1/2008	GPS		Yes
649	2284247.67422	6112.43093	1337	Pipestone 1-5	A	F	PWSK	1590005	5/12/2003	210C05	669.51	SA-C1337	AM	S	Y	710	294190	4877396	Fire Station	Pipestone	Pipestone FD	Fire Dept ID (state assigned)	59105	symmersa@gmail.com	1/1/2008	GPS		Yes
468	624372.10938	3873.38130	1010	Plainview Milk Products Cooperative 1	A	TM	OPCJ	5790044	2/24/2003	210C03	154.41	SA-C1010	AM	S	Y	86	586286	4892427	Fire Station	Plainview	Plainview FD	Fire Dept ID (state assigned)	79105	Chris.Watson@state.mn.us	1/1/2008	GPS		Yes
166	701893.23666	3774.77579	359	Plummer	A	TM	QBAA	1630002	11/15/2002	210C20	9.91	SA-C0359	AM	S	Y	926	272824	5313917	Fire Station	Plummer	Plummer FD	Fire Dept ID (state assigned)	53102	symmersa@gmail.com	1/1/2008	GPS		No
1119	480947.40122	2403.31046	1091	Revere - Well #3	A	TM	RTCT	1640010	10/27/2003	0	110.36	SA-C1091	FRC	C	N	510	311063	4993316	Fire Station	Revere	Revere FD	Fire Dept ID (state assigned)	34100		1/1/2008	FSA		NA
745	78177.35774	886.75201	1453	Shafer - Well #1	A	TM	CHTS	1130014	10/27/2003	0	18.57	SA-C1453	FRC	C	N	196	518778	5025014	Fire Station	Shafer	Shafer-Franconia FD	Fire Dept ID (state assigned)	13108	symmersa@gmail.com	1/1/2008	GPS		Yes
897	351654.00132	2161.52062	1712	Sherburn - Well #1	A	TM	QBAA	1460007	10/27/2003	0	66.87	SA-C1712	FRC	C	N	650	360787	4831870	Fire Station	Sherburn	Sherburn FD	Fire Dept ID (state assigned)	46106		1/1/2008	FSA		Yes

2233.0064

STATE_02826876

TABLE 7
MUNICIPAL FIRE DEPARTMENTS LOCATED IN SOURCE WATER ASSESSMENT (SWA) AREAS
October 15, 2008

FID SWA	AREA	PERIMETER	SWA ID	SWA NAME	SWA STAT C	CZ CLASS C	AQUIFER C	FWSID	VC DATE	MDH HY C	ACRES	SWA C	NCTI CODE	AQ TYPE	AQ DENS C	FID 200801	X	Y	FT	SUB	CITY	NAME	OWNER	UNIT C	CONTRIB	DATE	META LINK	STA	FIREFIGHTING FOAM QUESTIONNAIRE RECEIVED?
988	261954.00132	2101.52962	1713	Sherburn - Well #3	A	TM	QBAA	1460007	10/27/2003	0	66.87	SA-C1713	FRC	C	N	660	380797	4831870	Fire Station		Sherburn	Sherburn FD	Fire Dept ID (state assigned)	16106		1/1/2008	FSA		Yes
976	27287.13637	5853.27194	1721	Silver Lake - Well #1	A	TM	QBAA	1430008	10/27/2003	0	8.74	SA-C1721	FRC	C	N	416	405376	4972876	Fire Station		Silver Lake	Silver Lake -E	Fire Dept ID (state assigned)	43106	shane.deaney@dnr.state.mn.us	1/1/2008	GPS		Yes
977	112.82.26879	1188.32868	1722	Silver Lake - Well #2	A	TM	QBAA	1430008	10/27/2003	0	27.72	SA-C1722	FRC	C	N	416	405376	4972876	Fire Station		Silver Lake	Silver Lake -E	Fire Dept ID (state assigned)	43106	shane.deaney@dnr.state.mn.us	1/1/2008	GPS		Yes
1033	734578.45501	5042.11526	1779	Slayton - Well #1	A	TM	QBAA	1510009	10/27/2003	0	161.52	SA-C1779	FRC	C	N	598	278222	4874435	Fire Station		Slayton	Slayton FD	Fire Dept ID (state assigned)	51108		1/1/2008	FSA		No
1035	-486611.36526	2463.33719	1781	Slayton - Well #3	A	TM	QBAA	1510009	10/27/2003	0	120.89	SA-C1781	FRC	C	N	598	278222	4874435	Fire Station		Slayton	Slayton FD	Fire Dept ID (state assigned)	51108		1/1/2008	FSA		No
939	166413.90026	1449.71121	1663	Spring Valley - Creamery Well	A	TM	MTPL	1230012	10/27/2003	0	40.88	SA-C1663	FRC	C	N	114	549995	4897370	Fire Station		Spring Valley	Spring Valley FD	Fire Dept ID (state assigned)	22111	Chris.Watson@state.mn.us	1/1/2008	GPS		Yes
216	271310.79689	2266.34110	955	St. Cloud Regional Airport	A	TM	QBAA	5710089	2/3/2003	210C20	67.04	SA-C0955	AM	S	Y	790	416864	5041214	Fire Station		St. Cloud	St. Cloud FD #1 Airport	Fire Dept ID (state assigned)	73216	jeff.Faas@dnr.state.mn.us	1/1/2008	FSA		Yes
668	237924.74314	1767.33807	1351	Saint Cloud Regional Office	A	TM	QBAA	5710089	5/27/2003	210C08	69.70	SA-C1351	AM	S	Y	790	416864	5041214	Fire Station		St. Cloud	St. Cloud FD #4 Airport	Fire Dept ID (state assigned)	73216	jeff.Faas@dnr.state.mn.us	1/1/2008	FSA		Yes
200	8588620.02344	13297.31043	402	St. John's University	A	TM	QWTA	1730069	12/13/2002	210C18	2122.26	SA-C0402	AM	S	Y	844	391119	5043343	Fire Station		Collegeville	St. John's University FD	Fire Dept ID (state assigned)	73401	symmerisa@gmail.com	1/1/2008	GPS		Yes
255	-388368.86718	10622.34780	447	Saint Joseph	A	TM	QWTA	1730033	12/17/2002	210C18	1067.10	SA-C0447	AM	S	Y	845	387731	5043530	Fire Station		St. Joseph	St. Joseph FD	Fire Dept ID (state assigned)	73118		1/1/2008	GPS		Yes
747	504109.93003	2519.33172	1465	Stacy - Well #1	A	TM	CRTS	1130016	10/27/2003	0	124.94	SA-C1465	FRC	C	N	208	501364	5025973	Fire Station		Stacey	Stacey FD	Fire Dept ID (state assigned)	13109	dave.schuller@dnr.state.mn.us	1/1/2008	GPS		Yes
1089	925817.10010	5414.35956	1828	Stewartville - Well #2	A	TM	MTPL	1550026	10/27/2003	0	228.73	SA-C1828	FRC	C	N	99	541059	4865439	Fire Station		Stewartville	Stewartville FD	Fire Dept ID (state assigned)	55106	Chris.Watson@state.mn.us	1/1/2008	GPS		Yes
772	180834.91181	1509.37900	1490	Storden - Well #1	A	TM	QBAA	1170044	10/27/2003	0	46.69	SA-C1490	FRC	C	N	662	314216	4873939	Fire Station		Storden	Storden FD	Fire Dept ID (state assigned)	17104	Greg-FORR4.Johnson@dnr.state.mn.us	1/1/2008	GPS		No
140	895407.86808	4861.12854	238	Swanville	A	TM	QWTA	1480007	10/23/2002	210C20	221.26	SA-C0238	AM	S	Y	814	372770	5083116	Fire Station		Swanville	Swanville FD	Fire Dept ID (state assigned)	49109	jeff.Faas@dnr.state.mn.us	1/1/2008	FSA		Yes
1205	14839.80506	493.22244	2003	Tintah - Well #1	A	TM	QBAA	1780003	10/27/2003	0	9.87	SA-C2003	FRC	C	N	998	242909	5103598	Fire Station		Tintah	Tintah FD	Fire Dept ID (state assigned)	78103	symmerisa@gmail.com	1/1/2008	GPS		Yes
1206	14839.80506	493.22244	2004	Tintah - Well #2	A	TM	QBAA	1780003	10/27/2003	0	9.87	SA-C2004	FRC	C	N	998	242909	5103598	Fire Station		Tintah	Tintah FD	Fire Dept ID (state assigned)	78103	symmerisa@gmail.com	1/1/2008	GPS		Yes
1207	-4401.62227	237.03377	2005	Tintah - Well #3	A	TM	QBAA	1780003	10/27/2003	0	1.11	SA-C2005	FRC	C	N	998	242909	5103598	Fire Station		Tintah	Tintah FD	Fire Dept ID (state assigned)	78103	symmerisa@gmail.com	1/1/2008	GPS		Yes
944	105453.90592	1153.71072	1570	Twin Lakes - Well #1	A	TM	DCCM	1240016	10/27/2003	0	26.11	SA-C1570	FRC	C	N	590	485721	4022112	Fire Station		Twin Lakes	Twin Lakes FD	Fire Dept ID (state assigned)	64116	Chris.Watson@state.mn.us	1/1/2008	GPS		Yes
711	89640.86185	1120.43722	1415	Vernon Center - Well #	A	TM	CRRV	1070019	10/27/2003	0	24.62	SA-C1415	FRC	C	N	694	406081	4863340	Fire Station		Vernor Center	Vernor Center FD	Fire Dept ID (state assigned)	37112		1/1/2008	FSA		No
712	14762.40089	1363.33350	1416	Vernon Center - Well #2	A	TM	CSLP	1070019	10/27/2003	0	39.48	SA-C1416	FRC	C	N	694	406081	4863340	Fire Station		Vernor Center	Vernor Center FD	Fire Dept ID (state assigned)	37112		1/1/2008	FSA		No
1221	142695.74094	1340.73598	2019	Waldorf - Well #1	A	TM	OPSP	1810003	10/27/2003	0	55.26	SA-C2019	FRC	C	N	572	444023	4861737	Fire Station		Waldorf	Waldorf FD	Fire Dept ID (state assigned)	31103	Chris.Watson@state.mn.us	1/1/2008	GPS		Yes
1122	148769.00079	1379.32483	1898	Walnut Grove - Well #1	A	TM	QBAA	1640014	10/27/2003	0	57.01	SA-C1898	FRC	C	N	622	392641	4899732	Fire Station		Walnut Grove	Walnut Grove FD	Fire Dept ID (state assigned)	34113		1/1/2008	FSA		No
813	73668.67285	962.32328	1534	Waters - Well #1	A	TM	OGAL	1230009	10/27/2003	0	18.20	SA-C1534	FRC	C	N	598	445676	4823312	Fire Station		Waters	Waters FD	Fire Dept ID (state assigned)	22109		1/1/2008	FSA		Yes
757	1643471.85156	5585.77574	751	Wabun	A	TM	QBAA	1440004	1/17/2003	210B20	404.11	SA-C0751	AM	S	Y	567	224841	5024547	Fire Station		Wabun	Wabun FD	Fire Dept ID (state assigned)	44104	Symmerisa@gmail.com	1/1/2008	GPS		No
551	113905.92500	1712.37194	1170	Waseca	A	TM	OPCJ	1810004	3/23/2003	210C20	2763.91	SA-C1170	AM	S	Y	570	459458	4883521	Fire Station		Waseca	Waseca FD	Fire Dept ID (state assigned)	31104	Chris.Watson@state.mn.us	1/1/2008	GPS		Yes
1224	2563536.79437	6445.75076	2022	Waseca - Well #3	A	TM	OPCJ	1810004	10/27/2003	0	551.57	SA-C2022	FRC	C	N	570	459458	4883521	Fire Station		Waseca	Waseca FD	Fire Dept ID (state assigned)	31104	Chris.Watson@state.mn.us	1/1/2008	GPS		Yes
1225	124.155.37008	5954.33268	2023	Waseca - Well #4	A	TM	OPCJ	1810004	10/27/2003	0	309.78	SA-C2023	FRC	C	N	570	459458	4883521	Fire Station		Waseca	Waseca FD	Fire Dept ID (state assigned)	31104	Chris.Watson@state.mn.us	1/1/2008	GPS		Yes
872	849876.64469	5270.32393	1601	Wayzata - Well #3	A	TM	QBAA	1270054	10/27/2003	0	209.31	SA-C1601	FRC	C	N	519	466606	4973930	Fire Station		Wayzata	Wayzata FD #1	Fire Dept ID (state assigned)	27130	symmerisa@gmail.com	1/1/2008	GPS		Yes
1003	182836.92085	1517.71111	1748	Welcome - Well #4	A	TM	CRTS	1460011	10/27/2003	0	45.18	SA-C1748	FRC	C	N	667	388475	4853142	Fire Station		Welcome	Welcome FD	Fire Dept ID (state assigned)	46109		1/1/2008	FSA		Yes
015	1413469.80243	4220.32905	1536	Wells - Well #3	A	TM	OPCJ	1220010	10/27/2003	0	350.76	SA-C1536	FRC	C	N	507	441755	4043470	Fire Station		Wells	Wells FD	Fire Dept ID (state assigned)	22110	tom.romane@dnr.state.mn.us	1/1/2008	GPS		Yes
994	145574.01827	1354.11801	1590	Wendell - Well #1	A	TM	KRFT	1760008	10/27/2003	0	25.86	SA-C1590	FRC	C	N	563	261067	5107577	Fire Station		Wendell	Wendell FD	Fire Dept ID (state assigned)	76107	symmerisa@gmail.com	1/1/2008	GPS		No
797	349214.04070	2057.53503	1516	West Concord - Well #2	A	TM	CJDN	1200007	10/27/2003	0	66.29	SA-C1516	FRC	C	N	71	507883	4883710	Fire Station		West Concord	West Concord FD	Fire Dept ID (state assigned)	20106		1/1/2008	FSA		Yes
383	5513218.53906	6863.33888	570	White Bear Lake	A	TM	OPCJ	1620024	10/1/2000	210D11	1362.84	SA-C0570	AM	S	Y	31	489586	4983437	Fire Station		White Bear Lake	White Bear Lake FD #2	Fire Dept ID (state assigned)	32112	symmerisa@gmail.com	1/1/2008	GPS		Yes
1108	1881208.13727	4877.32949	1880	White Bear Lake - Well #2	A	TM	CIGM	1620024	10/27/2003	0	466.59	SA-C1880	FRC	C	N	31	489586	4983437	Fire Station		White Bear Lake	White Bear Lake FD #2	Fire Dept ID (state assigned)	32112	symmerisa@gmail.com	1/1/2008	GPS		Yes
1006	70037.68004	1012.23067	1066	Winger - Well #2	A	TM	QBAA	1680013	10/27/2003	0	16.61	SA-C1066	FRC	C	N	240	276120	5263031	Fire Station		Winger	Winger FD	Fire Dept ID (state assigned)	30113	kurt.wastlis@state.mn.us	1/1/2008	GPS		No
018	500150.02251	2520.44095	1537	Winnebago - Well #1	A	TM	OPDC	1220011	10/27/2003	0	125.59	SA-C1537	FRC	C	N	693	406296	4843510	Fire Station		Winnebago	Winnebago FD	Fire Dept ID (state assigned)	22111		1/1/2008	FSA		Yes
817	584840.69665	2714.41318	1538	Winnebago - Well #2	A	TM	OPDC	1220011	10/27/2003	0	144.52	SA-C1538	FRC	C	N	693	406296	4843518	Fire Station		Winnebago	Winnebago FD	Fire Dept ID (state assigned)	22111		1/1/2008	FSA		Yes
980	377.14.10231	2178.33407	1725	Winsted - Well #2	A	TM	QBAA	1430010	10/27/2003	0	63.19	SA-C1725	FRC	C	N	531	416962	4973930	Fire Station		Winsted	Winsted FD	Fire Dept ID (state assigned)	43108	shane.deaney@dnr.state.mn.us	1/1/2008	GPS		Yes
832	130961.54481	1262.52184	1556	Wykoff - Well #2	A	TM	CJDN	1230013	10/27/2003	0	22.28	SA-C1556	FRC	C	N	109	556923	4839724	Fire Station		Wykoff	Wykoff FD	Fire Dept ID (state assigned)	23112	Chris.Watson@state.mn.us	1/1/2008	GPS		Yes
740	544910.30389	5448.33703	1487	Wyoming - Well #1	A	TM	CRTS	1130018	10/27/2003	0	203.27	SA-C1487	FRC	C	N	770	500166	5023552	Fire Station		Wyoming	Wyoming FD	Fire Dept ID (state assigned)	13111	dave.schuller@dnr.state.mn.us	1/1/2008	GPS		Yes

2233.0065

STATE_02826877

APPENDIX A

Questionnaires Received Post-June 30th Report

DELTA

Read Post-Report

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

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

Type of Foam	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	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	SILV-EX	Yes	15	
Training Foam				
Other				

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

ALBORN FIRE DEPARTMENT
Fire Department

CHIEF - 218-345-6314 TRAINING OFFICER 218-345-6358
Phone Number Date

ALBORNFIRE @ AOL.COM OR BUSYBOY222 @ JUNO.COM 6-12-08
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

Received Post-Report

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

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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.

   ALBROOK School 7427 SEVILLE Rd SAGINAW MN 55979 – Demostrations

   ALBORN FIRE HALL 6390 HWY #7 ALBORN MN 55702

   TRAINING & Demostration

a member of: Inogen Environmental Alliance

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

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and 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)	don't know	Yes	~~10+~~ 10 or less	X	X
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	don't know	Yes	10+	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:

Dennis Stark, Fire Marshall (Via telephone)
Name and Title

Alexandria F.D.
Fire Department

320-763-6188 9-3-08
Phone Number Date

dstark@rea-alp.com
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?

   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 3%

   _____ 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): Depends on where.
   City has stormwater retention pond system.

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

   magellan tank farm, some training there 4 years ago.
   Host fire school ~3yrs at tech school
   5 yrs ago - on Highway, RV on fire.
   use Class B foam -

   No training at fire track with foam.

   1978 - tank at Williams hit by lightening & foam at Williams

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)	X - 3M? Believe it's 3M	No	<5	X	X
Class B Alcohol-Resistant (AR)-AFFF					
Class 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	<5	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.

via telephone

Questionnaire completed by:

Troy Zelmer Chief
Name and Title

Amboy F.D.
Fire Department

507-674-3018 — 9-4-08
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

via telephone

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

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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): Gravel Lot

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

   varies - fire station, country
   101 W. main St Amboy

We foam Paleo
We A & B

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

Record Post Rel

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and 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				
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	ANGUS	Yes	05 gallons	Yes	Yes
Training Foam	N/A				
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 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 HAAG - FIRE CHIEF
Name and Title

ANDOVER
Fire Department

320-274-8466 — 8/11/08
Phone Number — Date

AFDoaklakedalelink.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

Rec'd Post Report

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.

   All over, grassy areas & Blacktop

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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 - Never				
Class B Alcohol-Resistant (AR)-AFFF					
Class 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	Yes	210gal	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.

via telephone

Questionnaire completed by:

Fire Chief Gerald Schwartz
Name and Title

Atwater Fire Dept
Fire Department

W) 320-974-3373 — 9-22-08
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

via telephone

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

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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 _____ Ground

   _____ Other (please 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 - Various locations

   Don't use Class B foam

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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? Yes or No	Historically Used? Yes or No
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	watsure brand		5-10gal	Yes	Yes
Training Foam	↳ DNR-supplied.				
Other?					

Glow A+B sticks However used Bylet.

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by September 30, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Karl Flier, Fire Chief — via telephone

Name and Title

Backus F.D.

Fire Department

218-947-4486 — 10-2-08

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

via telephone

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): when new nozzle - one time

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	X only				
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 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:

via Phone NR

David Lucas JR

Name and Title

Barrett F.D.

Fire Department

320-528-2512 9-3-08

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

Vera Phone

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

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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.

Only Class A foam used

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

Read Post Report

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and 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	NO	—	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	SILVEX	NO	10-20	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:

Richard E Boyarf Fire Chief
Name and Title

Blackduck Fire Dept
Fire Department

218-835-4806 or 218-835-4548
Phone Number Date

Boyarfs@Blackduck.net 10 June 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

Revised Post-Report

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?
   - X Yes - **Proceed to Question 2**
   - _____ No - **Sign the back 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.

~~No Place in particular~~

No one Place

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

Real Post-Report

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

Type of Foam	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

Brooklyn Center
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

Read Post FP

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

47

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

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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?

   _____ 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.

   FIRE STATION #1 6250 Brooklyn Blvd - Brooklyn CTR, MN
   FIRE STATION #2 6500 Dupont Ave N. " " "

80

Yes/No

Inogen Environmental Alliance

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

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used **now and in the past** by the Department, both for fire response and 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? Yes or No	Historically Used? Yes or No
Class B Aqueous Film-Forming Foam (AFFF)	Ansul (varies)	No (last used 3 years ago)	<5	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	(varies) Silv-Ex	No	2025 gal		
Training Foam	Yes	Yes			
Other	Dish Soap	Yes			

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by September 30, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Deputy Chief Todd Seitz via telephone

Name and Title

Brooklyn Park F.D.

Fire Department

763-493-8026 9-25-08

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

via telephone

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

   ~10% of calls

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.

   Training foam or Dawn Dish Soap

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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? Yes or No	Historically Used? Yes or No
Class B Aqueous Film-Forming Foam (AFFF)	Angus	No	~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	Angus	No	~5		
Training Foam					
Other					

may have used Silvex in the past, 10+ years ago, Class A only

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by September 19, 2008 in the enclosed stamped, self-addressed envelope.

via telephone

Questionnaire completed by:

Fire Chief Chuck Gavin

Name and Title

Caledonia F.D.

Fire Department

w) 507-725-5000 — 7-24-08

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

via telephone

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

   Both

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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

   once/year

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.

   dish saq

OVER→

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

Rcvd Post-Report

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and 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:

Keith Hentsch Chief

Name and Title

Callaway

Fire Department

Phone Number

Date

E-Mail Address

Inogen

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

Read Post-Report

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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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and 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)	?? maybe	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	Don't know				
Class A	X Brand	No	0		
Training Foam	X	Yes	10,000		
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 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.

via telephone

Questionnaire completed by:

Errow Hensch Fire Chief
Name and Title

Campbell Fire Dept
Fire Department

218-630-5756 9-5-08
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?

   _____ Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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 Never so far _____ 0-25% of fires _____ 25-50% of fires _____ 75-100% 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 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): 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.

   Vacant lots - varies each time. Use training foam. Been over two years since last training w/ foam.

Never used it. Both A + B. Have on hand, have never had to use it. **OVER→**

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

Read Post-Report

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

Type of Foam	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	✓	Less than 5 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	Angus	✓	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:

Joel C Miller Chief
Name and Title

Cannon Falls
Fire Department

507-291-0643
Phone Number Date

CANNON FALLS FD @ 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

Read Post Report

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.

   Cannon Valley Fire grounds

   Cannon Falls, 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	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)		~~No~~ Yes	210	Y	Y
Class B Alcohol-Resistant (AR)-AFFF	Don't know what type of Class B				
Class 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	~~No~~ Yes	210	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.

Via telephone NR

Questionnaire completed by:

Jeff Basinger, Fire Chief

Name and Title

Clearbrook Fire Dept

Fire Department

218-776-3144 (Clearbrook Collision Center) 9-8-08

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

Via telephone

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 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 _____ Ground

   _____ Other (please describe): on top of their tanks - floating lids

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

Pipelines - Class B use Pipeline Equipment and Class A supplied by Enbrage, Coke, MN

Yes.

Enbrage - Adj to city limits. South edge of town. 3 tank farms.

OVER→

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

Rcvd Post Report

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

Type of Foam	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 1 gallon ourselves in a year	
Training Foam				
Other	Switching to F500	So we meet Class A+B needs		

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

Sec/Treas Assistant Chief
Fire Department

Clontarf Fire Dept.
Phone Number

320 843 3129 (Home)
Date

8-23-08
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

Read Post-Report

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

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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 Foam Tank with inductor

4. How often is foam used in training exercises?

   _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   X Other (please specify): Training w/ Benson Fire Dept

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.

   Mainly at training facility in Benson burning tires, car, training at House burn, etc

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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? Yes or No	Historically Used? Yes or No
Class B Aqueous Film-Forming Foam (AFFF)	Navel				
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	not sure metro fire	Yes	5	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) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by September 30, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Ken Bakke Asst Fire Chief (via telephone)

Name and Title

Cokato F.D.

Fire Department

320-286-2452 9-26-08

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

via telephone

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

   ↳ Never

   _____ Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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 _____ Ground

   _____ Other (please 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 - live burns.

OVER→

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Bovie Grand Rapids

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used **now and in the past** by the Department, both for fire response and 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? Yes or No	Historically Used? Yes or No
Class B Aqueous Film-Forming Foam (AFFF)	Not sure Brand. same as other depts around, Grand Rapids, Bovie	no	< 5gal	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	Not sure, Firetrol.	Yes	12-15 5-5gal	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) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by September 19, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Fire Chief Ken Decosler — via telephone

Name and Title

Coleraine F.D.

Fire Department

218-259-3205 — 9-22-08

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

via telephone

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

   X Yes - **Proceed to Question 2**

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

2. How often is Class B or Class A foam used in response to fire calls? Depends on fire
   car = 0
   house = 50%+

   _____ 0-25% of fires _____ 25-50% of fires _____ 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 one truck does, one doesn't

   _____ No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   X Other (please specify): occasionally.

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.

   Class A = end of training to coat burn.
   old dump, past WWTP, Brush/compost.
   car foam. area.

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? Yes or No	Historically Used? Yes or No
Class B Aqueous Film-Forming Foam (AFFF)	Never				
Class B Alcohol-Resistant (AR)-AFFF					
Class 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	10-15 gal	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) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by September 30, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

via telephone

Mark Behr
Name and Title

Conger F.D.
Fire Department

507-265-3435
Phone Number

9-25-08
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

via telephone

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations? by Never
   - X Yes - **Proceed to Question 2**
   - _____ No - **Sign the back 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?
   - _____ Less than 5 gallons
   - _____ 5 gallons
   - _____ 5 to 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 Building Burns.

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? Yes or No	Historically Used? Yes or No
Class B Aqueous Film-Forming Foam (AFFF)	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	not sure	Yes	~100gal	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) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by September 19, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by: Fire Chief Arne Johnson via telephone

Name and Title

Cook Fire Dept

Fire Department

218-666-2216 9-24-08

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

Via Telephone

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?
   - X Yes - **Proceed to Question 2** (Class A only)
   - _____ No - **Sign the back 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
   - 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): at live burns

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
   - 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 live fires 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

Read Post Report

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and 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)	3M				X
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:

Maurice Schaeherer cheif
Name and Title

Dawson Fire Dept
Fire Department

320-769-2016 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

Read Post-Report

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

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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.

_____

_____

_____

_____

_____

_____

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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? Yes or No	Historically Used? Yes or No
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	not sure brand.	Y	<5gal.	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) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by September 19, 2008 in the enclosed stamped, self-addressed envelope.

via telephone

Questionnaire completed by:

Fire Chief Scott Smith
Name and Title

Degraff F.D.
Fire Department

320-808-5237 — 9-22-08
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

via telephone

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

   X Yes - **Proceed to Question 2** – Class A only

   _____ No - **Sign the back 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 – one

   _____ 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.

   Church parking lot
   St. Bridget Church

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	~~540 gal~~ Not used over 15 years	↓	Y
Class B Alcohol-Resistant (AR)-AFFF					
Class 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	240 gal	N	Y
Training Foam	August			Y	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 June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Fire Chief Jeff Swanson — via telephone

Name and Title

Detroit Lakes

Fire Department

218-847-~~5658~~ 2157 — 9-10-08

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

via telephone

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

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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?

   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.

   ~~Fire~~ No training in 24 years +

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? Yes or No	Historically Used? Yes or No
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	Not Sure Brand	Y	~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) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by September 30, 2008 in the enclosed stamped, self-addressed envelope.

via telephone

Questionnaire completed by:

Fire Chief Jeff Stahlman
Name and Title

Donnelly
Fire Department

320-246-3313 10-2-08
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

via telephone

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

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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): ~3x/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?

   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.

   In front of Fire Hall, 4th Street. Cross Street alley, ~center of town

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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

Record Post-Report

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and 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 Light Water	NO	Ø	~~Ø~~ yes	yes
Class B Alcohol-Resistant (AR)-AFFF	3M	no	Ø	yes	Ø
Class 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 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:

Peter R. Dane
Name and Title

Chief of Training
Fire Department

Duluth Fire Dept 6-20-08
Phone Number Date

218-730-4396
E-Mail Address

pdane@duluthmn.gov

a member of Inogen Environmental Alliance

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

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

Read Post-Report

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

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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 _____ Ground

   _____ Other (please describe): _____

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

   602 W. 2nd 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	X only				
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 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.

Via Telephone up

Questionnaire completed by:

~~Tim~~ to Lee Johnson
Name and Title

Akeley Fire Chief - East Hubbard Cty. Fire Protection
Fire Department

218-652-4618 9-3-08
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

Via Phone

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.

Class A only

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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? Yes or No	Historically Used? Yes or No
Class B Aqueous Film-Forming Foam (AFFF)	Not Sure Brand, not 3m. Old.	Y	≤ 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	Not Sure Brand	Y	≤ 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) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by September 30, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Jason James Fire Chief. via telephone

Name and Title

Elysian F.D.

Fire Department

507-327-3071 10-3-08

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

via telephone

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

   X Yes - **Proceed to Question 2** Rarely use foam

   _____ No - **Sign the back 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.

   Fire hall, or vacant Lot.
   202. F 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? Yes or No	Historically Used? Yes or No
Class B Aqueous Film-Forming Foam (AFFF)	3m	Yes	25gal	Y	Y
Class B Alcohol-Resistant (AR)-AFFF					
Class 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) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by September 19, 2008 in the enclosed stamped, self-addressed envelope.

via telephone

Questionnaire completed by:

Fire Chief Pete LacourSiere

Name and Title

Erskine F.D.

Fire Department

w) 218-687-2727 9-22-08

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

via telephone

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

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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 Getting new truck

   X No

4. How often is foam used in training exercises?

   _____ Never _____ Weekly _____ Monthly _____ Quarterly

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _____ Other (please specify): occasionally

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.

   Have trained w/other depts, w/ Bruce Rhode (state coordinator). used foam

   Have ~~trained~~ at car fire, brush piles.

   Not one specific training area.

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? Yes or No	Historically Used? Yes or No
Class B Aqueous Film-Forming Foam (AFFF)	Ansul 3% - Pioneer Products	No	< 5 not much in Last 5 years	Y / Y	
Class B Alcohol-Resistant (AR)-AFFF					
Class 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 Pioneer		20-40	Y / Y	
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by September 19, 2008 in the enclosed stamped, self-addressed envelope.

via telephone

Questionnaire completed by:

Fire Chief Tim Luetsch
Name and Title

Farmington
Fire Department

651-463-4771
Phone Number

9-23-08
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

Via telephone

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

   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?

   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.

   Train mostly with water. Train with foam to show CAF system. High school parking lot or Fire Sta. 1 across the street. 3-5 gal/year have trained with Train foam or Class A foam

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? Yes or No	Historically Used? Yes or No
Class B Aqueous Film-Forming Foam (AFFF)	30+ years ago				
Class B Alcohol-Resistant (AR)-AFFF					
Class 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	20-25	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) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by September 30, 2008 in the enclosed stamped, self-addressed envelope.

Via telephone

Questionnaire completed by:

Fire Chief Steve Seipp

Name and Title

Freeborn F.D.

Fire Department

507-863-2204 — 9-25-08

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

via telephone

30+ YRS ago

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

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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 X Annually C _____ 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.

   Class A. Various

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

Rural Post Rpt

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and 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	20 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:

SCOTT OMERSA — CHIEF
Name and Title

GILBERT FIRE DEPT.
Fire Department

218-748-2218 — July 1, 2008
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

Read Post Report

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

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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.

   THE LAST TIME FOAM WAS USED IN TRAINING WAS 2 YEARS AGO AT CITY OF GILBERT RECYCLING AREA. INDIANA AVE E. AND SHERWOOD FOREST DRIVE.

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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? Yes or No	Historically Used? Yes or No
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class 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) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by September 30, 2008 in the enclosed stamped, self-addressed envelope.

Via email

Questionnaire completed by:

Fire Chief Tom Froehlich
Name and Title

Good Thunder Fire Dept
Fire Department

507-278-3730 — 9-23-08
Phone Number — Date

chief@northlite.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.

   _____

   _____

   _____

   _____

   _____

   _____

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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. 4- 5gal

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	Yes	0	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					
Class A	Silv-Ex	Yes	0	No	Yes
Training Foam					
Other	F-500	Yes	20gal	Yes	No- As of Mar-2008

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 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.

via telephone

Questionnaire completed by:

Fire Chief Rick Baubenek

Name and Title

Goodview F.D.

Fire Department

cell 507-312-0031 — 9-23-08

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

Via telephone

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?
   - X Yes - **Proceed to Question 2** — used to use Class A & Class B; now multi F-500 - A/B, ~ March 2008
   - _____ No - **Sign the back 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 — every time there's a fire

3. Does the Department have a compressed air foam system (CAFS) with a built-in tank on its engine(s)?
   - X Yes
   - X No — 20-gal tank - not compressed

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?
   - 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 fire Sta - across the street at 4140 W. 5th St., Goodview
   604478
   4879751.11

OVER→

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

Revised Post-RI

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and 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:

JD Goraczkowski JD Goraczkowski Chief
Name and Title

Granada MN
Fire Department

507-447-2295 7/10/08
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**

   _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.

via Phone NR

Questionnaire completed by:

Tony Wolff — Equipment Officer

Name and Title

Halstad Fire Dept

Fire Department

218-456-2128 — 9-3-08

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

Via Phone

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.

   20 years - have had 2 cans of it, never
   Have used it.

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a member of Inogen Environmental Alliance

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Phone: 651.639.9449 / 800.477.9411 Fax: 651.639.9473 www.deltaenv.com

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and 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			5		
Class A	Buy & use Class X	No	10-20gal over 3 years. Incl. mutual aid → tire fire		
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 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.

via telephone

Questionnaire completed by:

Mike Dahl Fire Chief.

Name and Title

Hanley Falls F.D.

Fire Department

507-768-3570 9-3-08

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

vice telephone

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**

   → never used Class B, don't have it.

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

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

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

   _____ Yes Induction System.

   X No? Electrical mixer

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.

   Ethanol plant, next town over, have their own foam.

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

Rcvd Post-Report

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and 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)		~~X~~ 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	Angus	NO	10gal	Angus	Angus
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:

Tim Cropper Asst Chief & Training Officer
Name and Title

Harris Vol Fire Dept
Fire Department

651-674-0251
Phone Number

Date

timcropper8303@yahoo
E-Mail Address

a member of: Inogen Environmental Alliance

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

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

Rec'd Post-Report

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

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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 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

   X Other (please describe): Do not 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.

   Training takes place at HVFD Hall we do not use foam for training. The foam we do use is for car fires About 35% of the time a structure fires About 50% depending on size and scope this can fluctuate

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 Name				
Class B Alcohol-Resistant (AR)-AFFF					
Class 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 -	No	~25-40gal	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.

via telephone

Questionnaire completed by:

Fire Chief Curt Miner
Name and Title

Hayfield Fire Dept
Fire Department

507-951-2109 — Phone Number

9-22-09 — 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?
   - ___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	X Don't Know Brand	Yes	~5 gal	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.

Via phone
WR

Questionnaire completed by:

Mike Smart Asst Fire Chief
Name and Title

Hendricks Fire Dept
Fire Department

work: 218-861-6222 9-3-08
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

Via telephone

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

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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 Portable foam eductor - Class A.

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): Varies

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 only. Various sites

   ~~Portable~~

   No use Class B foam

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

Recent Past Report

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

Type of Foam	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%	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 CAFS 0.1-1%	YES	< 5 gals	car 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:

Chad Diemer Fire Chief
Name and Title

Heron Lake
Fire Department

507-793-2381 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

Rcvd Post-Report

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

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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

   ~~_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.

   Around fire hall - 1111 2nd Ave - use very little foam as a little goes a long way at 0.1-1%

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

Rcvd Post-Report

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and 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:

Jerry Foster Treasurer
Name and Title

Hidden Valley Fire - MN City, MN 55959
Fire Department

507-454-1114
Phone Number

June 23, 2008
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

Read Post-Report

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? Yes or No	Historically Used? Yes or No
Class B Aqueous Film-Forming Foam (AFFF)	30+ years ago				
Class B Alcohol-Resistant (AR)-AFFF					
Class 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	2025	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) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by September 30, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Fire Chief Steve Seipp via telephone

Name and Title

Hollandale F.D.

Fire Department

507-863-2204 9-25-08

Phone Number Date

E-Mail Address

a member of Inogen Environmental & Water

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

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

via telephone

304 PS cgo

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

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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 _____ Ground

   _____ Other (please 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 Various

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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? Yes or No	Historically Used? Yes or No
Class B Aqueous Film-Forming Foam (AFFF)	Angus Universal T 3-6%		-0-	on hand, have never used in 32 year's.	
Class B Alcohol-Resistant (AR)-AFFF					
Class 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) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by September 19, 2008 in the enclosed stamped, self-addressed envelope. via telephone

Questionnaire completed by:

Tom. Pagel Firefighter - medic
Name and Title

Isanti F.D.
Fire Department

763-444-8019 9-22-08
Phone Number Date

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

via telephone

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

   X Yes - **Proceed to Question 2**

   ___ No - **Sign the back 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

   Never has been

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): every two 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.

   Have foam, haven't used it.

   2 stations. every two years

   No discharge of Foam. Classroom only.

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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	Angus	Yes	100 cans	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.

via telephone

Questionnaire completed by:

Name and Title

Jordan F.D.

Fire Department

952-492-2535 — 9-10-08

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?

   _____ 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.

   Industrial Park - Fiscal
   & Irvine Industrial Dr. west side

   Class A only

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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? Yes or No	Historically Used? Yes or No
Class B Aqueous Film-Forming Foam (AFFF)	Newer				
Class B Alcohol-Resistant (AR)-AFFF					
Class 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	12-15 5 gal jugs	Yes	Yes
Training Foam					
Other	Class				

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by September 30, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Greg Nollhaber, Fire Chief.
Name and Title

Kelliher F.D.
Fire Department

cell-218-368-9700 10-14-08
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 __X__ 75-100% of fires

   80% of

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 __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.

   Run foam thru truck, flush it out, some discharge.
   Fire house, grassy area, behind house

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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? Yes or No	Historically Used? Yes or No
99% Class B Aqueous Film-Forming Foam (AFFF)	varies, mostly 3M	Yes	20 ~~150~~ gal	Y	Y
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
1% Class A	varies	no	45	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) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by September 19, 2008 in the enclosed stamped, self-addressed envelope.

via telephone

Questionnaire completed by:

Fire Chief Doug Noah
Name and Title

Kenyon F.D.
Fire Department

507-838-9657 — 9-22-08
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

Via telephone

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

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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 _____ Ground

   _____ Other (please describe): _____

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

   make sure it comes out, then use water. We very little foam at station.

5012206.91
4902119

OVER→

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

Rcvd Post-Paid

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and 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	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:

Tore Osland Secretary
Name and Title

Kilkenny Fire Department
Fire Department

(507) 595-3451 6/16/08
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

Rural Post-Report

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	X - DNR supplied	No	10-15	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.

Via telephone

Questionnaire completed by:

John Gohmann F.

Name and Title

Kimball F.D.

Fire Department

Cell - 320-249-2227 — 9-4-08

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

via telephone

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

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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

   structures - 1-2 per year

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.

   A only - no train w/ 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

Rev'd post-Report

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and 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 Van Deest Sec.
Name and Title

Lafayette Fire Dept.
Fire Department

507-276-4425 7-21-08
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

Rcvd Post Report

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

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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?

   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 have Not trained with Foam In A long time.

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)	Angus 3-6%	Yes	20gal	Y	
Class B Alcohol-Resistant (AR)-AFFF	→ Rarely used in training				
Class 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	100 gal.	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.

via telephone

Questionnaire completed by:

Tim Boehlke
Name and Title

Lake Johanna - Shoreview
Fire Department

651-481-7024
Phone Number

9-9-08
Date

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

via telephone

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?
   - X Yes - **Proceed to Question 2** Both. Primarily A
   - _____ No - **Sign the back 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
   - 60x/year Car & Structure 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? 4 stations.
   - _____ Less than 5 gallons _____ 5 gallons _____ 5 to 10 gallons
   - X More than 10 gallons (please specify): ~40 gal.

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, mostly at Station 3
   - 5545 Lexington Ave.

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? Yes or No	Historically Used? Yes or No
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Not sure Brand. No		<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) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by September 19, 2008 in the enclosed stamped, self-addressed envelope.

Via telephone

Questionnaire completed by:

Fire Chief Ross Whitman

Name and Title

Lake Lillian

Fire Department

(320-664-4126

Phone Number

9-24-08

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

via telephone

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

   X Yes - **Proceed to Question 2**

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

   Carry, can't really Recall last. time used it - 2003

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.

   Not in last 5 years. We water & dish soap to simulate foam use.

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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? Yes or No	Historically Used? Yes or No
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	not sure brand	No	-0-	on hand, not used	
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by September 30, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Fire Chief Brett Riewer via telephone

Name and Title

Lake Park F.D.

Fire Department

h) 218-238-5109 10-1-08

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

over telephone

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 _____ 75-100% of fires

   Never has been used in 5yrs on dept.

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

   _____ Yes

   _____ No

   Not Sure

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

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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)	don't know	Yes	don't know		
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	don't know	Yes	don't know		
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 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.

via telephone

Questionnaire completed by:

Chief Scott Nelson
Name and Title

Lakeville F.D.
Fire Department

952-985-4701 — 9-11-08
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

via telephone

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

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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): every other 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?

   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.

   No one place - various

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)	X Don't know brand	~~X~~ No	< 20 gal total		
Class B Alcohol-Resistant (AR)-AFFF					
Class 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 Don't know brand	~~X~~ No	< 20 gal total		
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 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 Rick Doleman via telephone

Name and Title

LeRoy F.D.

Fire Department

w) 507-324-5242 9-10-08

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

via telephone

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): _____

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

Revised Post-Report

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and 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	X	2 gallon	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 June 6, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Andy Greer Fire Chief
Name and Title

Lewisville
Fire Department

507-435-4645
Phone Number

Date

Andygreer@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

Rcvd Post-Report

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

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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 _____ Ground

   _____ Other (please 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 fire hall driveway, then All trucks are emptied at water to Dilute 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? Yes or No	Historically Used? Yes or No
Class B Aqueous Film-Forming Foam (AFFF)	Ansul — Township started using last month	X	0	Yes	~5 yrs
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein	Yes used to use ~ 10 yrs ago				Yes
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	Ansul	Y	20-25	Y	Y
Training Foam	X	Y			
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by September 19, 2008 in the enclosed stamped, self-addressed envelope.

via telephone

Questionnaire completed by:

Fire Chief Greg Gilbertson
Name and Title

Litchfield F.D.
Fire Department

320-221-1686 — 9-27-08
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

via telephone

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

   X Yes - **Proceed to Question 2**

   ____ No - **Sign the back 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 once/month ____ 75-100% 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): Grass

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

   Civic Arena, fairgrounds, industrial park

   Various Locations for training. Mostly train w/ training foam.

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 (Not Sure Brand)	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	X	Yes	~ 500	not sure brand	3M
Class 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	20-30 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.

via telephone

Questionnaire completed by:

Don Deutsch — Fire Chief

Name and Title

Luverne F.D.

Fire Department

~~32~~ 507-283-9141 (work) — 9-9-08

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

via telephone

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

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

   # Rarely - Class B – Ethanol

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 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 _____ Ground

   _____ Other (please describe): _____

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

   Burn pan - three ramps – S ½ mile Luverne, Hwy 75
   ↳ city pick it up w/ payloader + grade East side

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? Yes or No	Historically Used? Yes or No
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class 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	2½ 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) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by September 30, 2008 in the enclosed stamped, self-addressed envelope.

view last

Questionnaire completed by:

Steve Lamont Asst. Chief
Name and Title

Madison Lake Fire
Fire Department

507 381-1228 9-24-08
Phone Number Date

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

QUESTION
Firefighting Foam Us

Attn: Nancy Rodning
2 pages

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

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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 _____ 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.

   Tomahak lane - Hyway 60 west to Tomahak lane
   June 2008

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 Class B used				
Class B Alcohol-Resistant (AR)-AFFF					
Class 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	not sure brand Have foam on hand, ~~have~~ haven't used	No	~~5~~ gal	Yes in a long time.	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.

via telephone

Questionnaire completed by:

Fire Chief Richard Wichmann
Name and Title

Manchester F.D.
Fire Department

507-826-3101
Phone Number

9-22-08
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

via telephone

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

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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?

   _____ Less than 5 gallons _____ 5 gallons _____ 5 to 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.

   Spray with water only in training. At various locations

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? Yes or No	Historically Used? Yes or No
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class 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	A+B sticks	Yes	3-4 last 5 1/2 years	N	Yes

Previous PFOS foam

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by September 19, 2008 in the enclosed stamped, self-addressed envelope.

via telephone

Questionnaire completed by:

Fire Chief Chris Langworthy
Name and Title

Mapleton F.D.
Fire Department

h) 507-524-3341 — 9-23-08
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

via telephone

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

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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

   _____ Other (please specify): twice in last 1½ year

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): ½ stick

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.

   City Street, Fire 103 3rd Ave NE

   423391.62

   4864319.73

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	3M-	Yes	20 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:

Steve Lukin Fire Chief via telephone

Name and Title

Maplewood

Fire Department

651-249-2800 9-5-08

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

via telephone

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

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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.

   all over city - various sites

   Class A only

OVER→

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

Faxed Post-Report

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and 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	X	2gals	NO	
Training Foam	same				
Other					

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

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

Questionnaire completed by:

Gail Lanyk - chief
Name and Title

McDavitt Vol. Fire & Rescue
Fire Department

L-(218) 744-5677 — 05-28-08
Phone Number — Date

gailsl@northlc.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

Read Post-Report

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

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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.

   9042 Hwy #27 in the parking lot of our Fire Department. Zim Minnesota 55738

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	No	~5	on hand	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	Yes	Yes
Training Foam	X	Yes	~5	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.

via telephone

Questionnaire completed by:

Chief Rick Hager
Name and Title

Mead Lard F.D.
Fire Department

507-455-2866
Phone Number

9-11-08
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

   Class B - not used in 15-20 years Class A - 1 time in

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): 1/3yR, Class A 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 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.

   train with Class A foam or training foam

   Park Lot - Station

   408 2nd Av SE

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

Rcvd fax-Report

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and 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	NO	5-20 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	Angus Elkhart?	NO yes	26-50 5gal		10 gal every other 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:

Name and Title: DAVE DREGLAN - Training officer

Fire Department: Mendota Hgts F.D.

Phone Number: 651-906-4774

Date: 6/16/08

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

Revel Post-Report

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

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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): one every other year or so

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.

   Middley F.D. parking Lot.

OVER→

a member of: Inogen Environmental Alliance

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

Recent past - Report

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and 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	Yes	5gal	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	Chemguard	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:

Bruce Reed

Name and Title

Mentor Fire Dept

Fire Department

218-6860-7733

Phone Number

Date 6/11/08

broed@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

Read Post-Report

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

   _X_ Yes - **Proceed to Question 2**

   __ No - **Sign the back 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.

   Various Acquired Structures

OVER→

a member of: Inogen Environmental Alliance

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

Recvd Post Report

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

Type of Foam	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		0-10 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	SILV-EX	YES	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:

CRAIG BILLINGS FIRE CHIEF
Name and Title

MILACA FIRE DEPT.
Fire Department

320 983 3465
Phone Number

Date 5/5/08

firechief@milacacity.com
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

Read Post-Report

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.

   LIVE STRUCTURE BURNS - 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	Currently Used?	Historically Used?
Class B Aqueous Film-Forming Foam (AFFF)	ProTec sticks	No	<20	Y	?
Class B Alcohol-Resistant (AR)-AFFF					
Class 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	60-70	<20 Y	Y
Training Foam			→ Large Hay fire		
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 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.

via telephone

Questionnaire completed by:

Steve Joerg Fire Chief
Name and Title

Monticello F.D.
Fire Department

763-238-5350 9-10-08
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

via telephone

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

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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 B - monthly exer

   _____ 0-25% of fires Class A 25-50% of fires _____ 75-100% 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): Depends

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

   Park Lots - various visible to public

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)	Never used, Never trained. 35 gal on hand. Universal Gold. Anulite				
Class B Alcohol-Resistant (AR)-AFFF					
Class 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.	~~Yes~~ NO	~20gal	Yes	NO
Training Foam	Silvex	NO		NO	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.

via telephone

Questionnaire completed by:

Gene Anderson, Fire Chief.
Name and Title

Mora F.D.
Fire Department

320-679-1511
Phone Number

9-9-08
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

via telephone

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

Class A 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?

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.

Bought truck and foam from Florida Dept a few years ago. Came with Class A + Class B foam. Never used Class B foam, but have on hand.

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? Yes or No	Historically Used? Yes or No
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	Don't know.	Yes	Very Little	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) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by September 19, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Fire Chief Steve VanLith — via telephone

Name and Title

New Germany F.D.

Fire Department

W) 952-353-2571 — 9-24-08

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

via telephone

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

   X Yes - **Proceed to Question 2**

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

   No Never Only

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.

   Park Lot by City Shed. State Av & Park St.

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

Record Post-Report

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

Type of Foam	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	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 BOUTIN
Name and Title

ALDRICH VFD
Fire Department

218-525-1848
Phone Number

5/22/08
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

Rcvd Post-Report

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

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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.

   Fire Hall
   6472 French River Rd
   Duluth 55804

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

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

Rcvd Post-Report

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

Type of Foam	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	10gal	New -
Training Foam				
Other				

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

NORTH STAR FIRE
Fire Department

218- 525- 4849
Phone Number

Date

gamantay@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

Recent Post-Reg

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

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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.

   7700 Pequawan Lk. Rd
   Duluth MN 55803

a member of Inogen Environmental Alliance

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

DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used **now and in the past** by the Department, both for fire response and 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? Yes or No	Historically Used? Yes or No
Class B Aqueous Film-Forming Foam (AFFF)	Hi Combat	Yes	~5gal	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					
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by September 19, 2008 in the enclosed stamped, self-addressed envelope.

via telephone

Questionnaire completed by:

Fire Chief Brent Aretz

Name and Title

Norwood F.D.

Fire Department

W) 952-467-2797 9-23-08

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

via telephone

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

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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

   ~~1 drum~~ 10/gal 2yR

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 property South St & Rush St.
   Vacant Lot.

   426573.08
   4957440.52

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

Revised Post Report

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and 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	X	100gals	60gal	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:

Doug Welinski OFD Treasurer
Name and Title

Ogilvie
Fire Department

320-272-4197 7-7-08
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

Received Post Report

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

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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 _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 _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.

   OFD 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)	dont know AFFF in old pumper truck, haven't used in many years	No	0	available	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 Concentrate White		15-20gal		
Training Foam			depends on fire.		
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 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.

via telephone

Questionnaire completed by:

Fire Chief Mark Pomerleau
Name and Title

Osakis F.D
Fire Department

w) 320-859-2290
Phone Number

9-10-08
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

via Telephone

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 _____ Bi-Annually

   X Other (please specify): less than annually

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.

   Town fire → training, No non-live fire training

   Old Pumper truck has some AFFF, don't know type - Many years since used.

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? Yes or No	Historically Used? Yes or No
Class B Aqueous Film-Forming Foam (AFFF)					
Class B Alcohol-Resistant (AR)-AFFF					
Class 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) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by September 30, 2008 in the enclosed stamped, self-addressed envelope.

via telephone

Questionnaire completed by:

Fire Chief Marv Lenz
Name and Title

Ostrander Fire Dept
Fire Department

507-657-2505 — 9-25-08
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

Vice Telephone

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** Not used foam in 6 years & since Chief is on force.

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? Yes or No	Historically Used? Yes or No
Class B Aqueous Film-Forming Foam (AFFF)	might be 3M	No	Rarely used, could go years.	Y	Y
Class B Alcohol-Resistant (AR)-AFFF					
Class B Protein					
Class B Fluoroprotein (FP)					
Class B Film-Forming Fluoroprotein (FFFP)					
Class B AR-FFFP					
Class A-B Hi Expansion Foam					
Class A	likely 3M.	~~Yes~~ No	50 gal	Y	Y
Training Foam	Yes	Yes		Y	Y
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by September 19, 2008 in the enclosed stamped, self-addressed envelope.

via telephone

Questionnaire completed by:

Fire Chief Mike Johnson

Name and Title

Owatonna F.D.

Fire Department

507-444-2454 9-22-08

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

via telephone

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

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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

   Class A - ~ 1/4 Class B - rarely, Rarely

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): ~ 2 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.

   Training Foam. Never use or used Class B foams in training, too expensive

OVER→

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

Review Post-Rpt

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and 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)		X		X	
Class B Alcohol-Resistant (AR)-AFFF					
Class 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: Nancy Schmidt - Fire Chief

Name and Title

Perham Fire Dept

Fire Department

218-346-4402 6-18-08

Phone Number Date

fire@cityofperham.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

Record Post-Report

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

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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.

   Dean Parking ramps @ Prairie Winds middle school in Perham

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)	Ansul &	~~No~~ Yes	<20 gal		Probably used other Brands.
Class B Alcohol-Resistant (AR)-AFFF					
Class 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	No	<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 June 6, 2008 in the enclosed stamped, self-addressed envelope.

via telephone

Questionnaire completed by:

Fire Chief Rick Kline
Name and Title

Plymouth F.D.
Fire Department

763 - 509 - 5121 — 9-10-08
Phone Number — Date

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

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): 2-3 / 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?

   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.

   Stations — 1) 13250 City Rd 6 3) 3300 Dunkirk Ln
   2) 12000 Old Rockford Rd

   Don't flow foam more for system set-up, make sure know how to connect everything up. Don't set up burn pan, for example, no foam eductor/nozzle training

OVER→

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

Received Post-Report

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and 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	Silva-Ex	X	10gal	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:

Brad Varpness Chief
Name and Title

Renville
Fire Department

320-329-3196 — 16 JUN 08
Phone Number — Date

Brad.Varpness@Kibbleeq.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

Read Post-Report

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

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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?

   X Storm Sewer [redacted] 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 Street & Bryant Ave
   2nd St & Bryant Ave
   Renville MN 56284

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)	Ansul 3M - historical use	N Y	10 gal ??	Yes 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					
Class A	Silv-Ex	N	50 gal	Yes	
Training Foam	Nat'l	Y		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.

via telephone

Questionnaire completed by:

~~Rick~~ Fire Chief Brad Sveum

Name and Title

Richfield F.D.

Fire Department

612-243-4502

Phone Number

9-9-08

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

via telephone

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

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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 B 0-25% of fires _____ 25-50% of fires _____ 75-100% of fires

   Class A - ~50%

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): every couple - every other year, corner case shift.

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): 30-40 gal per event.

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.

   ice arena - Richfield. 636 E. 66th St
   - training foam.

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. 12 pails total

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~~ Ansulite	Yes	60-90 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	~~3M~~ Silv Ex	No	60-90 gal		
Training Foam					
Other	~~#~~500 - just start using				

Blue with red

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 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.

via telephone

Questionnaire completed by:

Fire Chief Chuck Marten
Name and Title

Richmond F D.
Fire Department

w) 320-597-2214 — 9-10-08
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

via telephone

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

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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

   50-60%

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 to

   _____ Other (please describe): _____ central pond.

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

   Fire house - main & 191st Ave

   industrial site 3rd Lot to W, North side on Main

   Fire in town, call county 382469.71

   5034541.88

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	Angus	No	0	on hand	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-Hi Combat	Yes	not sure	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.

via telephone

Questionnaire completed by:

Fire Chief Brad Feist
Name and Title

Rogers Fire Dept.
Fire Department

763-428-3500 — 9-10-08
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?
   Trucks carry Class A. Have Class B, can't remember last time it was used.
   - [X] Yes - **Proceed to Question 2**
   - [ ] No - **Sign the back 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
   - [X] Other (please specify): Rarely. Not in many 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): Depends on Size

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

7. Where does/did the training take place? Please include address, intersection or other specific location information for current and past training areas.
   Trucks carry Class A.
   Class B - can't remember last time Class B
   Training burns on house fires.

OVER→

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5910 Rice Creek Parkway Suite 100 St. Paul, MN 55126 USA
Phone: 651.639.9449 / 800.477.9411 Fax: 651.639.9473 www.deltaenv.com

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used **now and in the past** by the Department, both for fire response and 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? Yes or No	Historically Used? Yes or No
Class B Aqueous Film-Forming Foam (AFFF)	Ansul Firestorm		25	Y	Y
Class B Alcohol-Resistant (AR)-AFFF					
Class 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 Sthl-Ex		25	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) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by September 30, 2008 in the enclosed stamped, self-addressed envelope.

via telephone

Questionnaire completed by:

Ed Kurt
Name and Title

Shafer F.D.
Fire Department

651-257-4753 9-27-08
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

via telephone

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 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

   _____ Other (please 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 + B Various

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-3%	~~Yes~~ No	20gal	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	Angus	Yes	~50gal	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.

via telephone

Questionnaire completed by:

Fire Chief Rick Coleman
Name and Title

Shakopee F.D.
Fire Department

952-233-9300
Phone Number

9-10-08
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

via telephone

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

   X Yes - **Proceed to Question 2** Both

   _____ No - **Sign the back 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

   Class A - once/week
   B - every 3 mos

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 _____ Ground

   _____ Other (please 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 Clara Lowry
   Vicklay DR

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

Read Post-Report

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and 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				
Class B Alcohol-Resistant (AR)-AFFF					
Class 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:

Troy Lange Chief
Name and Title

Spring Valley
Fire Department

507 346-2150
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

   _____ Semi-Annually _____ Annually _____ Bi-Annually

   _X_ Other (please specify): New truck have not uses much

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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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

8. What type(s) and brand(s) of foam are or were used **now and in the past** by the Department, both for fire response and 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? Yes or No	Historically Used? Yes or No
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	not sure brand	Yes	~5gal	Y	Y
Training Foam	not sure brand	Yes		Y	Y
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by September 30, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Travis Ryder — via telephone

Name and Title

St. Hilaire F.D.

Fire Department

218-964-5280 — 9-30-08

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

via telephone

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.

   Been a while use training foam. + C Class A
   Various locations, ~~city~~,

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

Read Post-Report

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and 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)	Team T233				
Class B Alcohol-Resistant (AR)-AFFF					
Class 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			
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 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 Sundby Chief
Name and Title

Stephen Hot Fire
Fire Department

218-478-4141 6-12-08
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

Rcvd Post-Report

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

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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 X 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 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.

   Aerials

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

Rcvd Post-Rpt

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

Type of Foam	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	unk.
Training Foam				
Other				

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

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

Questionnaire completed by:

Daniel Peterson Sect.
Name and Title

Sturgeon Lake
Fire Department

(218) 372 4124 5-01-08
Phone Number Date

dfpeterson@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.

   outskirts of Sturgeon Lake city park.
   Market street
   Sturgeon Lake MN 55783

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

Rural Fire Report

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and 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 ARC	NO	VARIES	YES	NO
Class B Alcohol-Resistant (AR)-AFFF	3M 3%/6%	NO	VARIES	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	VARIES	YES	YES
Training Foam	ANSUL TRAINING	YES	N/A	YES	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:

TROY T. WALSH / CAPTAIN - 4
Name and Title

VICTORIA FIRE DEPARTMENT
Fire Department

952-443-~~40~~4210 — 10-30-08
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

Read Post-Report

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

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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): ONCE A 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?

   _____ 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.

   VICTORIA FIRE USE'S FOAM ON TRAINING BURNS, AND these ARE AT VARIOUS LOCATIONS. VICTORIA FIRE does NOT try TO USE FOAM ON REGULAR PUMP TRAINING becuse OF LOCATIONS. ACTUAL FIRE CALLS will VARY ON the use OF 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)	3M.	Yes	~80 gal	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					
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 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.

via telephone.

Questionnaire completed by:

Fire Chief Mike

Name and Title

Wells Fire Dept

Fire Department

507-553-5415 — Phone Number

9-9-08 — 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?

Class B ___X___ Yes - **Proceed to Question 2**

_____ No - **Sign the back 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 ___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.

Various -

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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? Yes or No	Historically Used? Yes or No
Class B Aqueous Film-Forming Foam (AFFF)	Ansulite	Yes	< 5gal	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	10-20gal	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) if you have any questions regarding this questionnaire.

Please return this questionnaire to Delta Consultants by September 30, 2008 in the enclosed stamped, self-addressed envelope.

Questionnaire completed by:

Bob Klapperich, Asst. Chief — via telephone

Name and Title

West Concord

Fire Department

507-527-2176 — 9-30-08

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

via telephone

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

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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.

   Various locations. In city spent foam would go to storm sewer. In country spent foam would go to the ground.

OVER→

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

Received post-Report

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and 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	Y	2 gals.	2 gal.s	
Class B Alcohol-Resistant (AR)-AFFF					
Class 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:

Tim Prachar Chief
Name and Title

Willow River Fire Dept.
Fire Department

218-372-3733 6-30-08
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?

   _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 _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

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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

Rquest Post Report

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and 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					
Class 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			
Training Foam					
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 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 Joens Chief
Name and Title

Wilmont Fire Dept
Fire Department

507-926-5235 6-23-08
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

Read Past Report

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

   __X__ Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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?

   __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): _____

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

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a member of: Inogen Environmental Alliance

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

Reval Post-Report

8. What type(s) and brand(s) of foam are or were used now and in the past by the Department, both for fire response and 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:

Todd Enger
Name and Title

Winnebago Fire Department
Fire Department

507-893-3515 5-28-08
Phone Number Date

Winnebago Fire @ cityofwinnebago.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

Rcvd Post-Report

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

   _X_ Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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): Rarely used. Once every Three 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.

   140 Main St. S. Winnebago MN. 56098

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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	National Code – haven't had to use it yet	No	0	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	45gal	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:

Fire Chief Mike Trebesh via telephone

Name and Title

Winthrop

Fire Department

w) 507-647-2514 9-12-08

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

via telephone

1. Does your Department currently or has your Department historically used Class A or Class B foams for firefighting operations?
   AR-AFFF
   - X Yes - **Proceed to Question 2**
   - _____ No - **Sign the back 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.
   train w/ Class A only.
   Blacktop Lot at fire hall 3 N. Main St.

Ethanol plant, so stock AR-AFFF

OVER→

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DELTA

QUESTIONNAIRE
Firefighting Foam Use in Fire Training

Leave after RP

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

Type of Foam	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	X	less than 1 Gallon	Yearly.
Class B Alcohol-Resistant (AR)-AFFF				
Class 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 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:

mike TRACY Fire Chief
Name and Title

Wolverton FIRE Dept.
Fire Department

218-995-2525
Phone Number

Date 9-8-08

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

Road after Repast

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

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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.

   301 Hwy 75 Wolverton - Gravel Road in front of fire Hall.

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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 Tryvol) 3m? — thru 1998	No	<5	Yes / No	~1998 / 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	Angus Hi Combat / Since ~ 1998 Angus	No / Yes	50 / 1-2 gal quart-container	Yes / Yes	~1998 / Yes 8 or 32
Other					

Thank you for your time and cooperation. Please contact Nancy Rodning at Delta Consultants (651-697-5152 or nrodning@deltaenv.com) or Jim Stockinger at the Minnesota Pollution Control Agency (651-297-8666 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.

via telephone

Questionnaire completed by:

Fire Chief Mike Richardson
Name and Title

Woodbury F.D.
Fire Department

651-714-3701 9-10-08
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

Via telephone

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

   X Yes - **Proceed to Question 2**

   _____ No - **Sign the back 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

   Class A - Regularly
   Class B - Rarely.

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): _____

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

   Train w/training foam.
   Various Locations - not one place to train

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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)	Don't Recall	No		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					Switched a few yrs ago to A/B foam
Class A	F-500 A/B	No		Yes	
~~Training Foam~~ A	Don't Recall	No		No	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.

Via telephone

Questionnaire completed by:

Al Williams - Fire Chief
Name and Title

Wykoff
Fire Department

(City hall) 507-352-4011 — 9-5-08
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

via telephone

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

   ✓ 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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Appendix B

GIS Map of Training Sites, Fire Departments and SWAAs
(Compact Disc)

Appendix C

Updated Training Site Summaries from June 30th Report

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.albertlea.org

Training Location:	Frank Avenue, near the dog pound
Training Location Coordinates (X,Y):	470510.69, 4831974.89
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
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**13**

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:	Apple Valley central maintenance facility, 6442 140th St. W.
Training Location Coordinates (X,Y):	484467.63, 4954738.73
Type of foam used in training:	Class B AFFF: Angus Class B AR-AFFF: Angus Tridex Class A: Angus Hi-Combat
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-AFFF: 15 gallons Class A: 10 gallons
Nearest surface water:	Unidentified pond approximately 0.7 miles north-northeast
Nearest wetland:	<1/4 mile south-southwest
Karst Area:	Training site located in covered karst area.
Nearest water well:	<1/8 mile east
Nearest Wellhead Protection Area:	Training site is located within a WPA
Nearest Source Water Assessment Area:	Less than 1 mile
SITE RANKING:	**16**

SITE SUMMARY

Site Name:	Apple Valley - Hayes Road
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
Training Location Coordinates (X,Y):	481638.3, 4953766.48
Type of foam used in training:	Class B AFFF: Angus Class B AR-AFFF: Angus Tridex Class A: Angus Hi-Combat
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-AFFF: 15 gallons Class A: 10 gallons
Nearest surface water:	Alimagnet Lake located approximately 0.7 miles northwest
Nearest wetland:	<1/8 mile northeast
Karst Area:	Training site located in covered karst area.
Nearest water well:	<1/4 mile southwest
Nearest Wellhead Protection Area:	<1/3 mile southwest
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**16**

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
Training Location Coordinates (X,Y):	262669.97, 5008972.71
Type of foam used in training:	AR-AFFF: Ansulite 3x3 Class A: Ansul Silv-ex
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
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**11**

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)
Training Location Coordinates (X,Y):	354450.23, 5263558.3
Type of foam used in training:	Class B AFFF: 3M Light Water Class A: Ansul Silv-ex
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
Karst Area:	Site is not located in a karst area.
Nearest water well:	On-site at airport
Nearest Wellhead Protection Area:	Class B training site located within Wellhead Protection Area
Nearest Source Water Assessment Area:	Less than 1 mile
SITE RANKING:	**26**

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
Training Location Coordinates (X,Y):	535252.6, 5156671.55
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
Karst Area:	Site is not located in a karst area.
Nearest water well:	Less than 1/4 mile southwest
Nearest Wellhead Protection Area:	None within 1 mile
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**7**

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
Training Location Coordinates (X,Y):	224232.69, 5129574.91
Type of foam used in training:	AFFF: Chemguard Class A: Chemguard
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
Karst Area:	Site is not located in a karst area.
Nearest water well:	Approximately 1/3 mile southwest
Nearest Wellhead Protection Area:	More than 1 mile
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**7**

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
Training Location Coordinates (X,Y):	371998.47, 4955190.98
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
Karst Area:	Site is not located in a karst area.
Nearest water well:	Approximately 1/3 mile southwest
Nearest Wellhead Protection Area:	None within 1 mile
Nearest Source Water Assessment Area:	Less than 1/2 mile
SITE RANKING:	**15**

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
Training Location Coordinates (X,Y):	477488.56, 4958896.18
Type of foam used in training:	AR-AFFF: Ansul ATC 3/6 Class A: Ansul 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 WPA
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**23**

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
Training Location Coordinates (X,Y):	378429.64, 5248370.75
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
Karst Area:	Site is not located in a karst area
Nearest water well:	Less than 1/4 mile northeast
Nearest Wellhead Protection Area:	More than 1 mile
Nearest Source Water Assessment Area:	Less than 1/4 mile
SITE RANKING:	**13**

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
Training Location Coordinates (X,Y):	500003.99, 4876791.67
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 Area:	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
Nearest Source Water Assessment Area:	Site is located within a SWAA
SITE RANKING:	**23**

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
Training Location Coordnates (X,Y):	505306.85, 4964453.13
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 WPA
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**27**

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
Training Location Coordinates (X,Y):	356560.64, 4824721
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
Karst Area:	Site is not located in a karst area.
Nearest water well:	1/3 to 1/2 mile southeast
Nearest Wellhead Protection Area:	More than 1 mile
Nearest Source Water Assessment Area:	Less than 1/4 mile
SITE RANKING:	**9**

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
Training Location Coordinates (X,Y):	544086.76, 5232684.57
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
Karst Area:	Site is not located in a karst area.
Nearest water well:	1/2 to 1 mile northeast
Nearest Wellhead Protection Area:	More than 1 mile
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**9**

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)
Training Location Coordinates (X,Y):	292798.32, 5098019.61
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
Karst Area:	Site is not located in a karst area.
Nearest water well:	Approximately 1/2 mile northwest
Nearest Wellhead Protection Area:	Less than 1/4 mile north
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**11**

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
Training Location Coordinates (X,Y):	382628.41, 4836330.65
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
Karst Area:	Site is not located in a karst area.
Nearest water well:	1/3 to 1/2 mile south
Nearest Wellhead Protection Area:	More than 1 mile
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**21**

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
Training Location Coordinates (X,Y):	479469.41, 4993724.27
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 WPA
Nearest Source Water Assessment Area:	Less than 1 mile
SITE RANKING:	**28**

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
Training Location Coordinates (X,Y):	477766.09, 4823779.75
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
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**13**

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
Training Location Coordinates:	470257.51, 4981474.32
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 is located in a WPA
Nearest Source Water Assessment Area:	Less than 1 mile
SITE RANKING:	**22**

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
Training Location Coordinates (X,Y):	423146.6, 4953620.96
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:	Intermittent stream less than 1/4 mile west
Nearest wetland:	Less than 1/4 mile southeast
Karst Area:	Training site is located in or near a covered karst area
Nearest water well:	Less than 1/4mile northeast
Nearest Wellhead Protection Area:	More than 1 mile
Nearest Source Water Assessment Area:	Less than 1 mile
SITE RANKING:	**15**

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.
Training Location Coordinates (X,Y):	579975.49, 4822231.09
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
Nearest Source Water Assessment Area:	Site is located in a SWAA
SITE RANKING:	**19**

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
Training Location Coordinates (X,Y):	564498.69, 5263299.13
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
Karst Area:	Site is not located in a karst area.
Nearest water well:	Less than 1/4 mile west
Nearest Wellhead Protection Area:	More than 1 mile
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**11**

SITE SUMMARY

Site Name:	Hugo - 140th Street N.
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., Hugo
Training Location Coordinates (X,Y):	500134.17, 5000140.01
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
Nearest wetland:	Less than 1/4 mile east
Karst Area:	Training site is located in a transition or covered karst area.
Nearest water well:	Less than 1/4 mile north and south
Nearest Wellhead Protection Area:	Less than 1/4 mile north
Nearest Source Water Assessment Area:	Less than 1 mile
SITE RANKING:	**19**

SITE SUMMARY

Site Name:	Hugo - Fable Court N.
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:	4630 Fable Rd Ct. N., Hugo
Training Location Coordinates (X,Y):	498735.34, 4999366.19
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:	Clearwater Creek 1/4 to 1/2 mile east
Nearest wetland:	Less than 1/4 mile west
Karst Area:	Training site is located in a transition or covered karst area.
Nearest water well:	Less than 1/4 mile north and south
Nearest Wellhead Protection Area:	Training site is located in a WPA
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**20**

SITE SUMMARY

Site Name:	Hutchinson - 3rd Avenue SE
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, Hutchinson
Training Location Coordinates (X,Y):	391873.34, 4971515.91
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
Nearest wetland:	Approximately 1/2 mile northeast
Karst Area:	Site is not located in a karst area.
Nearest water well:	Less than 1/4 mile southwest of 3rd Avenue site
Nearest Wellhead Protection Area:	3rd Avenue site located in a WPA
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**22**

SITE SUMMARY

Site Name:	Hutchinson - Adams Street
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:	1300 Adams St. SE, Hutchinson
Training Location Coordinates (X,Y):	393884.42, 4969258.23
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:	Unidentified pond less than 1/4 mile west
Nearest wetland:	1/4 to 1/2 mile southwest
Karst Area:	Site is not located in a karst area.
Nearest water well:	Less than 1/4 mile east
Nearest Wellhead Protection Area:	1/4 to 1/3 mile north
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**21**

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
Training Location Coordinates (X,Y):	492101.46, 5024907.15
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
Karst Area:	Site is not located in a karst area
Nearest water well:	Less than 1/4 mile east
Nearest Wellhead Protection Area:	More than 1 mile
Nearest Source Water Assessment Area:	Less than 1 mile
SITE RANKING:	**23**

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
Training Location Coordinates (X,Y):	458551.57, 5360557
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
Karst Area:	Training site not located in a karst area.
Nearest water well:	On or adjacent to training site
Nearest Wellhead Protection Area:	More than 1 mile
Nearest Source Water Assessment Area:	Less than 1/4 mile
SITE RANKING:	**23**

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
Training Location Coordinates (X,Y):	450045.23, 4989331.1
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
Karst Area:	Site is not located in a karst area.
Nearest water well:	1/4 to 1/3 mile east
Nearest Wellhead Protection Area:	Training site located in WPA
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**18**

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
Training Location Coordinates (X,Y):	420708.19, 4891577.5
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 mile
Nearest Source Water Assessment Area:	Less than 1/2 mile
SITE RANKING:	**21**

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)
Training Location Coordinates (X,Y):	276985.21, 4928003.45
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
Karst Area:	Site is not located in a karst area
Nearest water well:	1/4 to 1/2 mile east
Nearest Wellhead Protection Area:	More than 1 mile
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**21**

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
Training Location Coordinates (X,Y):	304957.74, 4975563.32
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 1/4 to 1/3 mile west
Nearest wetland:	1/4 to 1/2 mile southeast
Karst Area:	Site not located in a karst area.
Nearest water well:	Less than 1/4 mile east
Nearest Wellhead Protection Area:	More than 1 mile
Nearest Source Water Assessment Area:	Training site is located within a SWAA
SITE RANKING:	**12**

SITE SUMMARY

Site Name:	Minneapolis
Fire Department:	Minneapolis Fire Department Room 230, City Hall Minneapolis, MN 55415
Site Contact:	Walt Lee, Captani, 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
Training Location Coordinates (X,Y):	477993.41, 4986929.2
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
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**19**

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
Training Location Coordinates (X,Y):	285000.91, 4980838.01
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
Karst Area:	Site is not located in a karst area.
Nearest water well:	1/2 to 1 mile southeast
Nearest Wellhead Protection Area:	More than 1 mile
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**17**

SITE SUMMARY

Site Name:	Myrtle
Fire Department:	Myrtle Fire Department Myrtle, MN 56070
Site Contact:	Not provided

Training Location:	Myrtle ball field
Training Location Coordinates:	487068.87, 4823399.48
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
Nearest Source Water Assessment Area:	Training site is located in a SWAA
SITE RANKING:	**22**

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
Training Location Coordinates (X,Y):	500221.49, 4984167.2
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 a WPA
Nearest Source Water Assessment Area:	Less than 1 mile
SITE RANKING:	**28**

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
Training Location Coordinates (X,Y):	384230.64, 4843689.71
Type of foam used in training:	Other: Pyrocom 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 (~5 gallons)
Nearest surface water:	Lake Charlotte, more than 1 mile southwest
Nearest wetland:	More than 1/4 to the east and west
Karst Area:	Site is not located in a karst area.
Nearest water well:	Less than 1/8 mile southeast
Nearest Wellhead Protection Area:	Training site located in WPA
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**11**

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
Training Location Coordinates (X,Y):	364202.33, 5026039.25
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
Karst Area:	Site is not located in a karst area.
Nearest water well:	Less than 1/8 mile from airport
Nearest Wellhead Protection Area:	Training site located in a WPA
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**16**

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
Training Location Coordinates (X,Y):	263129.29, 5162260.44
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
Karst Area:	Site is not located in a karst area.
Nearest water well:	At or adjacent to training site
Nearest Wellhead Protection Area:	Training site located in a WPA
Nearest Source Water Assessment Area:	Less than 1 mile
SITE RANKING:	**16**

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.
Training Location Coordinates (X,Y):	414262.67, 5091305.4
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
Karst Area:	Site is not located in a karst area.
Nearest water well:	Approximately 1/4 mile west
Nearest Wellhead Protection Area:	More than 1 mile
Nearest Source Water Assessment Area:	Training site located in a SWAA
SITE RANKING:	**22**

SITE SUMMARY

Site Name:	Pine River - Fair Grounds
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 on 1st Street, Pine River
Training Location Coordinates (X,Y):	392262.83, 5175261.39
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, 1/4 to 1/2 mile to the east
Nearest wetland:	1/4 to 1/2 mile east
Karst Area:	Site is not located in a karst area.
Nearest water well:	1/4 to 1/2 mile west of both training sites
Nearest Wellhead Protection Area:	Site is located in a WPA
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**10**

SITE SUMMARY

Site Name:	Pine River School Grounds
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:	School grounds on 1st Street, Pine River
Training Location Coordinates (X,Y):	392348.93, 5175786.55
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
Nearest wetland:	Less than 1/4 mile east
Karst Area:	Site is not located in a karst area.
Nearest water well:	1/4 to 1/2 mile west
Nearest Wellhead Protection Area:	Adjacent to a WPA
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**13**

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
Training Location Coordinates (X,Y):	248834.81, 4947264.5
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
Karst Area:	Site is not located in a karst area.
Nearest water well:	Approximately 1 mile northeast
Nearest Wellhead Protection Area:	More than 1 mile
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**9**

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
Training Location Coordinates (X,Y):	574569.31, 4835742.38
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
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**28**

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
Training Location Coordinates (X,Y):	540539.06, 4879254.12
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 a WPA
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**25**

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
Training Location Coordinates (X,Y):	405659.17, 4972916.58
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
Karst Area:	Site is not located in a karst area.
Nearest water well:	Less than 1/4 mile northeast
Nearest Wellhead Protection Area:	More than 1 mile
Nearest Source Water Assessment Area:	Less than 1/4 mile
SITE RANKING:	**15**

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
Training Location Coordinates (X,Y):	
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
Training Site in Source Water Assessment Area?:	No
SITE RANKING:	**23**

SITE SUMMARY

Site Name: St. Cloud - 41st Avenue N.

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.
Training Location Coordinates (X,Y):	405767.11, 5046463.13
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:	Unnamed pond less than 1/4 mile northwest
Karst Area:	Site is not located in a karst area.
Nearest wetland:	1/2 to 1 mile south
Nearest water well:	1/4 to 1/3 mile southwest
Nearest Wellhead Protection Area:	Site is located in or adjacent to a WPA.
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**16**

SITE SUMMARY

Site Name: St. Cloud - 45th Avenue

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:	Station 4, 1550 45th Avenue SE (airport station), St. Cloud
Training Location Coordinates (X,Y):	416307.64, 5044386
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, approximately 1 mile south of Station 4.
Nearest wetland:	Less than 1/4 mile west
Karst Area:	Site is not located in a karst area.
Nearest water well:	Approximately 1 mile south
Nearest Wellhead Protection Area:	More than 1 mile
Nearest Source Water Assessment Area:	Less than 1/4 mile
SITE RANKING:	**15**

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
Training Location Coordinates (X,Y):	486574.76, 4979985.83
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
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**22**

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
Training Location Coordinates (X,Y):	250028.84, 4907390.31
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
Karst Area:	Site is not located in a karst area.
Nearest water well:	Approximately 1/2 mile north and south
Nearest Wellhead Protection Area:	More than 1 mile
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**9**

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
Training Location Coordinates (X,Y):	377783.95, 5074021.29
Type of foam used in training:	Class A-B Hi Expansion: Royal Chemical Co.
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
Karst Area:	Site is not located in a karst area.
Nearest water well:	Less than 1/4 mile north
Nearest Wellhead Protection Area:	More than 1 mile
Nearest Source Water Assessment Area:	Less than 1/2 mile
SITE RANKING:	**15**

SITE SUMMARY

Site Name:	Waconia - Airport Road
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, Waconia
Training Location Coordinates (X,Y):	443694.99, 4965534.5
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:	Piersons Lake, less than 1/4 mile southeast
Nearest wetland:	Less than 1/4 mile southeast
Karst Area:	Site does not appear to be located in a karst area.
Nearest water well:	Less than 1/4 mile east, south and southwest
Nearest Wellhead Protection Area:	More than 1 mile
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**13**

SITE SUMMARY

Site Name:	Waconia - Maple Street
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:	26 S. Maple Street, Waconia
Training Location Coordinates (X,Y):	437498.01, 4966672.27
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:	Lake Waconia, less than 1/4 mile north
Nearest wetland:	Maple Street site: 1/4 to 1/2 mile west
Karst Area:	Site does not appear to be located in a karst area.
Nearest water well:	Less than 1/4 mile east
Nearest Wellhead Protection Area:	Site is located in Wellhead Protection Area
Nearest Source Water Assessment Area:	Less than 1/2 mile
SITE RANKING:	**16**

SITE SUMMARY

Site Name:	Waconia - Paradise Lane
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:	8075 Paradise Lane, Waconia
Training Location Coordinates (X,Y):	439790.58 4967181
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:	Lake Waconia, less than 1/4 mile north
Nearest wetland:	Paradise Lane site: less than 1/4 mile northeast
Karst Area:	Site does not appear to be located in a karst area.
Nearest water well:	Less than 1/4 mile southwest
Nearest Wellhead Protection Area:	Site is located in Wellhead Protection Area
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**18**

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
Training Location Coordinates (X,Y):	443992.29, 4864698.87
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
Nearest Source Water Assessment Area:	Site is located in a SWAA
SITE RANKING:	**16**

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
Training Location Coordinates (X,Y):	459765.11, 4881691.45
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
Nearest Source Water Assessment Area:	Less than 1/4 mile
SITE RANKING:	**13**

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
Training Location Coordinates (X,Y):	369375.97, 4836030.82
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
Karst Area:	Site is not located in a karst area.
Nearest water well:	Less than 1/4 mile northeast
Nearest Wellhead Protection Area:	More than 1 mile
Nearest Source Water Assessment Area:	Site is located in a SWAA
SITE RANKING:	**14**

SITE SUMMARY

Site Name: Winona - 3rd Street

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:	Central Fire Station, 451 E. 3rd Street
Training Location Coordinates (X,Y):	609503.38, 4878473.9
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:	Mississippi River, approximately 1/4 mile NE
Nearest wetland:	Approximately 1 mile south
Karst Area:	Training site is located in an active karst area
Nearest water well:	Aproximately 1/4 mile north
Nearest Wellhead Protection Area:	Site is located in a WPA
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**19**

SITE SUMMARY

Site Name:	Winona - Homer Road
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:	Technical College, 1250 Homer Road, Winona
Training Location Coordinates (X,Y):	611156.16, 4875130.08
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:	Unidentified streams and ponds on campus of Technical College
Nearest wetland:	On campus of Technical College
Karst Area:	Training site is located in an active karst area
Nearest water well:	Wells on campus
Nearest Wellhead Protection Area:	More than 1 mile
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**16**

Appendix D

Municipal Fire Department Training Site Profiles for Sites Ranked Post-June 30th Report

- Alborn
- Alexandria
- Brooklyn Center
- Cannon Falls
- Clearbrook
- Cloquet
- Crosslake
- Dilworth
- Elysian
- Goodview
- Kenyon
- Lake Johanna
- Lanesboro
- Luverne
- Mapleton
- New York Mills
- Newfolden
- Northfield
- Norwood Young America
- Perham
- Plymouth
- Randall
- Richfield
- Richmond
- Rosemount
- Sartell LeSauk
- Wolverton

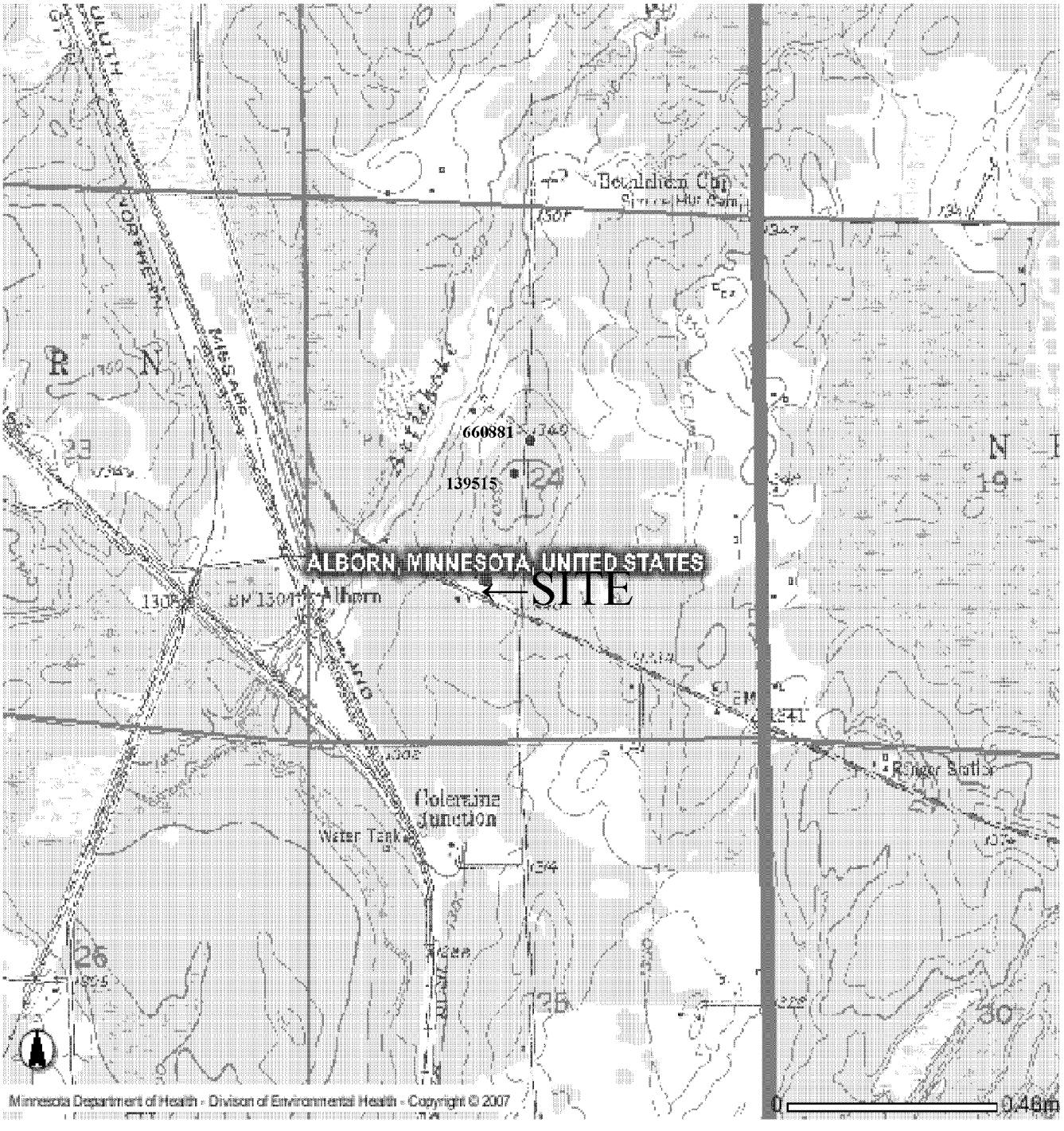
- **Alborn**
  - Highway 7
  - Seville Road

SITE SUMMARY

Site Name:	Alborn - Highway 7
Fire Department:	Alborn Fire Department 6955 Stoney Brook Road Alborn, MN 55702
Site Contact:	Jay Tremblay, Training Officer 218-345-6358 (training officer) 218-345-6314 (fire chief) albornfire@aol.com busyboy222@juno.com

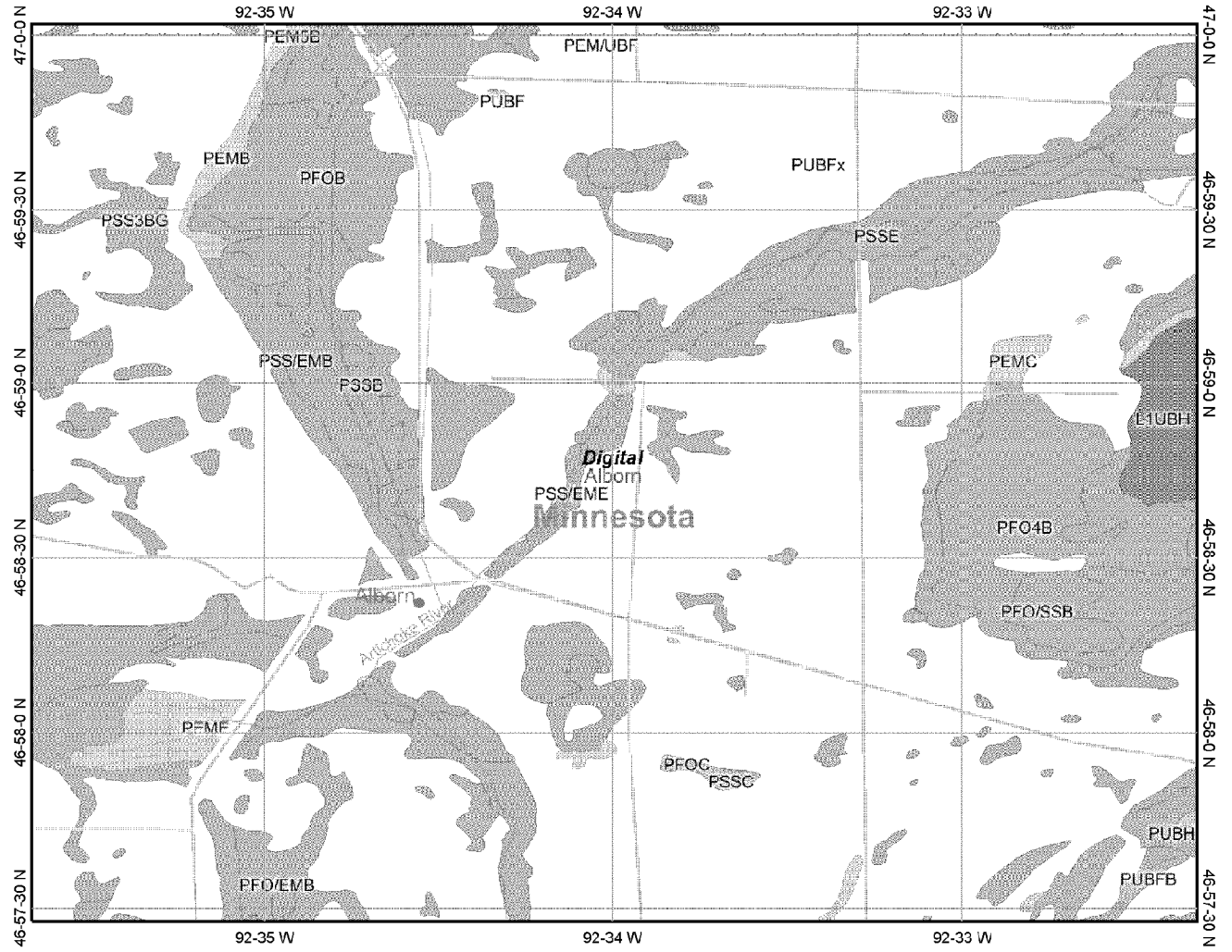
Training Location:	Alborn Fire Hall, 6390 Highway 7 Demonstration and training site
Training Location Coordinates (X,Y):	532828.98, 5202247.95
Type of foam used in training:	Class B AFFF: Ansulite Class A: Ansul Silv-Ex
Foam training frequency:	Annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Ground
Annual foam use:	Class B AFFF: 5 gallons Class A: 15 gallons
Nearest surface water:	Artichoke River located approximately 1/4 mile west
Nearest wetland:	Approximately 1/4 mile west
Karst Area:	Training site not located in a karst area
Nearest water well:	Approximately 1/4 mile north
Nearest Wellhead Protection Area:	More than 1 mile
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**11**

ALBORN - HIGHWAY 7 CWI Well Map

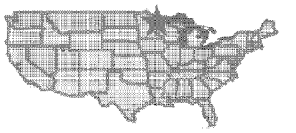


STATE_02827140

Alborn Hwy 7 Wetland Map



Map center: 46° 58' 45" N, 92° 34' 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

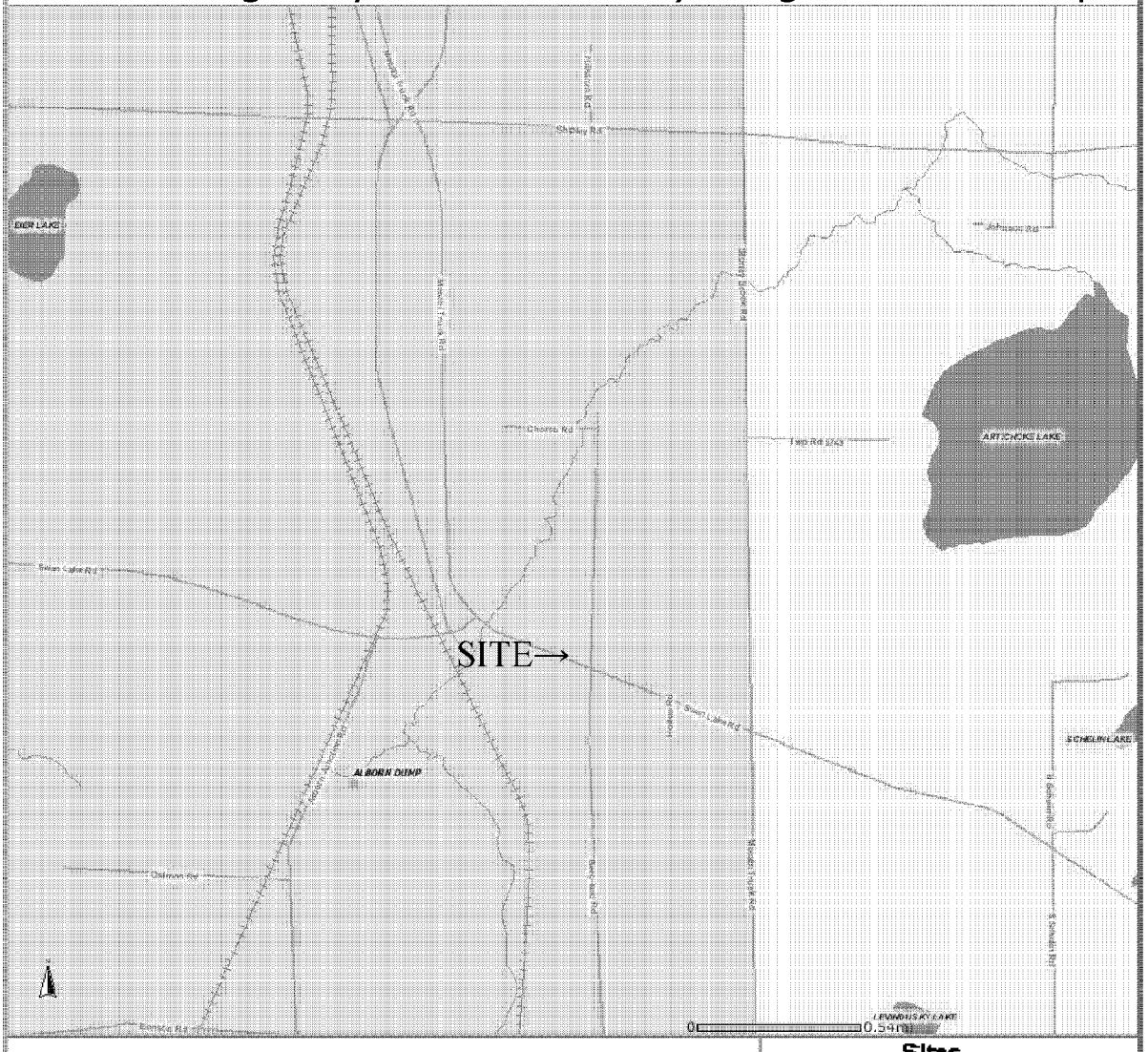
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This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

2233.0329

STATE_02827141

Alborn-Highway 7 *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

Minnesota Unique Well No.
660881

County St. Louis
Quad Alborn
Quad ID 246A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 06/10/2002
Update Date 04/17/2008
Received Date

Well Name GOUER, JULIE L.

Township	Range	Dir	Section	Subsections	Elevation
52	18	W	24	ACC	1342 ft.

Elevation Method: Calc from DEM (USGS 7.5 m n or equiv.)

Well Depth	Depth Completed	Date Well Completed
137 ft.	137 ft.	09/21/2001

Drilling Method Driven

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
6 in. to 137 ft.	18.97 lbs./ft.	6 in. to 137 ft.

Well Address
6386 CHURCH RD
ALBORN MN 55702

Open Hole from ft. to ft

Screen NO Make Type

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
SAND	BROWN	MEDIUM	0	40
CLAY/SAND	BROWN	MEDIUM	40	90
CLAY	BROWN	MEDIUM	90	120
SAND	BROWN	MEDIUM	120	130
GRAVEL	BROWN	MEDIUM	130	137

Static Water Level
42 ft from Land surface Date Measured 09/2?/2001

PUMPING LEVEL (below land surface)
100 ft. after 4 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 Department of Health
Unique Number Verification N/A
System UTM - Nad83, Zone15, Meters

Method GPS SA Off (averaged)
Date N/A
X: 533051 Y: 5202681

Nearest Known Source of Contamination
120 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
Davidson R Well Co.	57032	GRAVES, A.

First Bedrock
Last Strat Unknowr deposit type
Aquifer
Depth to Bedrock ft.

County Well Index Online Report | 660881 | Printed 9/2/2008 HE-01205-07

Minnesota Unique Well No.
139515

County St. Louis
Quad Alborn
Quad ID 246A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 02/24/1988
Update Date 04/17/2008
Received Date

Well Name LIND, BRUCE
Township Range Dir Section Subsections Elevation
52 18 W 24 BDD Elevation Method 1350 ft. Calc from DEM (USGS 7.5 m n or equiv.)

Well Depth	Depth Completed	Date Well Completed
106 ft.	106 ft.	10/15/1977

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 1.5 ft.

Casing Diameter	Weight	Hole Diameter
7 in. to 106 ft.	23 lbs./ft.	

Open Hole from ft. to ft

Screen NO Make Type

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
SAND	BROWN		0	23
GRAVEL	BROWN		23	99
CLAY	BROWN		99	106

Static Water Level
50 ft from Land surface Date Measured 10/15/1977

PUMPING LEVEL (below land surface)
10 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
LOC: NORTHERLY 550FT OF EASTERLY 500FT.

Grouting Information Well Grouted? ☑ Yes ☑ No

Located Minnesota Department of Health
Unique Number Verification N/A
System UTM - Nad83, Zone15, Meters
Method GPS Differentially Corrected
Date N/A
X: 532995 Y: 5202578

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

Hole In One Drilling	69442	DORN, GILBERT
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 | 139515 | Printed 9/2/2008 HE-01205-07

SITE SUMMARY

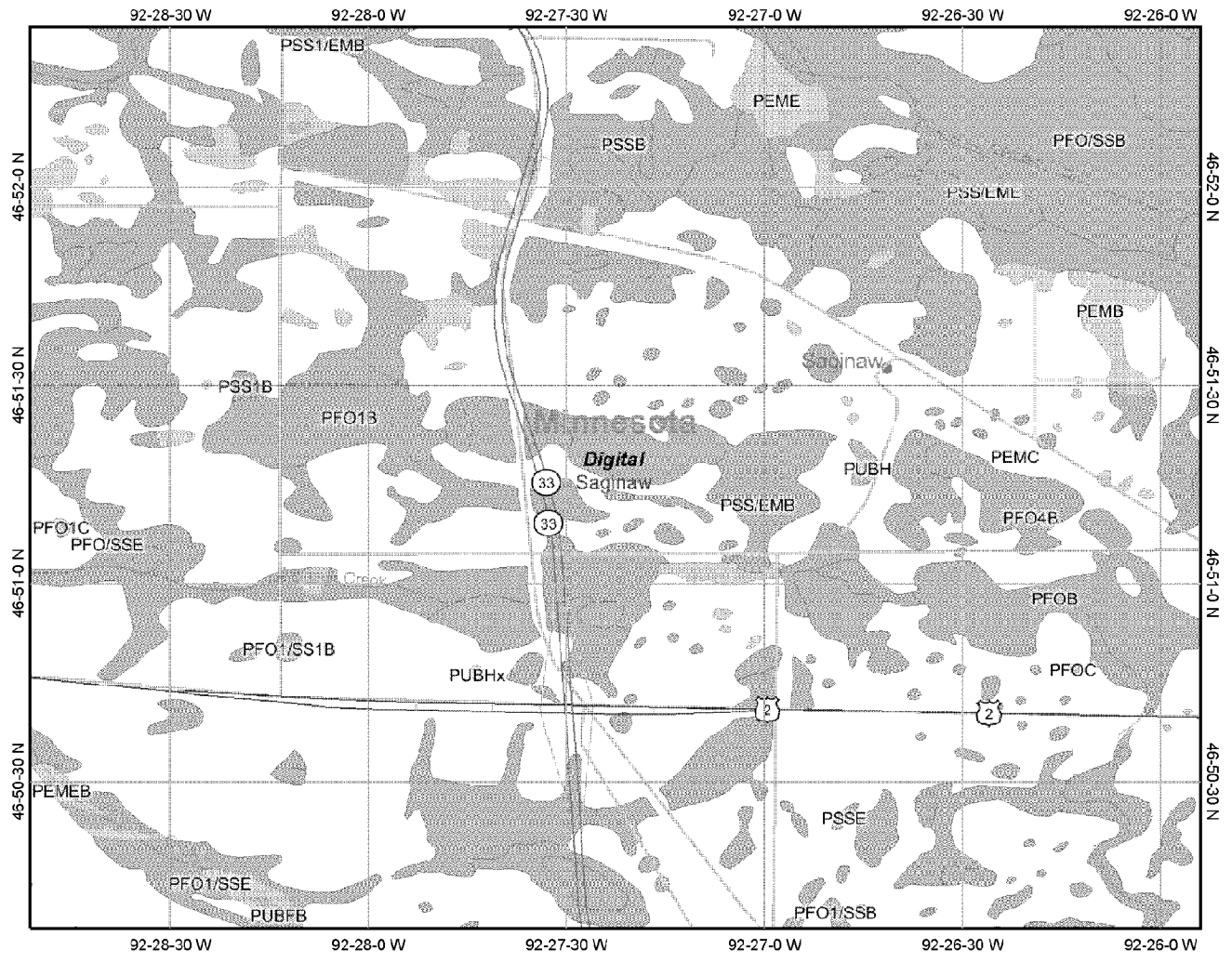
Site Name:	Alborn - Seville Road, Saginaw
Fire Department:	Alborn Fire Department 6955 Stoney Brook Road Alborn, MN 55702
Site Contact:	Jay Tremblay, Training Officer 218-345-6358 (training officer) 218-345-6314 (fire chief) albornfire@aol.com busyboy222@juno.com

Training Location:	Albrook School, 7427 Seville Road, Saginaw, MN 55779 Demonstration site
Training Location Coordinates (X,Y):	541171.6, 5188857.06
Type of foam used in training:	Class B AFFF: Ansulite Class A: Ansul Silv-Ex
Foam training frequency:	Annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Ground
Annual foam use:	Class B AFFF: 5 gallons Class A: 15 gallons
Nearest surface water:	Johnson Creek located approximately 1 mile southwest
Nearest wetland:	Less than 1/4 mile to the south and to the north
Karst Area:	Training site not located in a karst area
Nearest water well:	1/2 to 3/4 mile northeast
Nearest Wellhead Protection Area:	More than 1 mile
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**7**

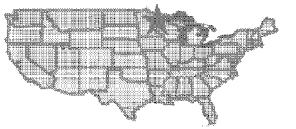
ALBORN - SEVILLE ROAD CWI Well Map



Alborn - Seville Rd Wetland Map



Map center: 46° 51' 16" N, 92° 27' 22" 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: 1:29,483

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2233.0335

STATE_02827147

Alborn-Seville Rd *What's In My Neighborhood* Map



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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

-

Minnesota Unique Well No.
430822

County St. Louis
Quad Saginaw
Quad ID 245C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 11/07/1990
Update Date 11/15/2007
Received Date

Well Name SCHEPER, MAX
Township Range Dir Section Subsections Elevation
51 17 W 36 Elevation Method 1350 ft. Calc from DEM (USGS 7.5 m n or equiv.)

Well Depth	Depth Completed	Date Well Completed
28 ft.	28 ft.	06/22/1988

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 1 ft.

Casing Diameter	Weight	Hole Diameter
6 in. to 28 ft.	18.97 lbs./ft.	6 in. to ft.

Well Address
4665 VIBERT RD
SAGINAW MN 55779

Open Hole from ft. to ft

Screen NO Make Type

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
SAND LOAM	BROWN	SOFT	0	2
GRAVEL	BROWN	HARD	2	15
SANDY GRAVEL	BROWN	HARD	15	20
COARSE GRAVEL	BROWN	HARD	20	28

Static Water Level
8 ft. from Land surface Date Measured 06/22/1988

PUMPING LEVEL (below land surface)
25 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)

REMARKS
LOC: 200 FT SOUTH FROM 4665 VIBERT RD. SAGINAW, MN 55779.

Grouting Information Well Grouted? ☑ Yes ☑ No

Located Minnesota Department of Health
Unique Number Verification N/A
System UTM - Nad83, Zone15, Meters
Method GPS SA Off (averaged)
Date N/A
X: 542229 Y: 5189552

Nearest Known Source of Contamination
100 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 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
Sunnarborg Well Co.	09437	SUNNARBORG, C

First Bedrock
Last Strat Gravel (+larger)
Aquifer
Depth to Bedrock ft.

County Well Index Online Report | 430822 | Printed 9/2/2008 HE-01205-07

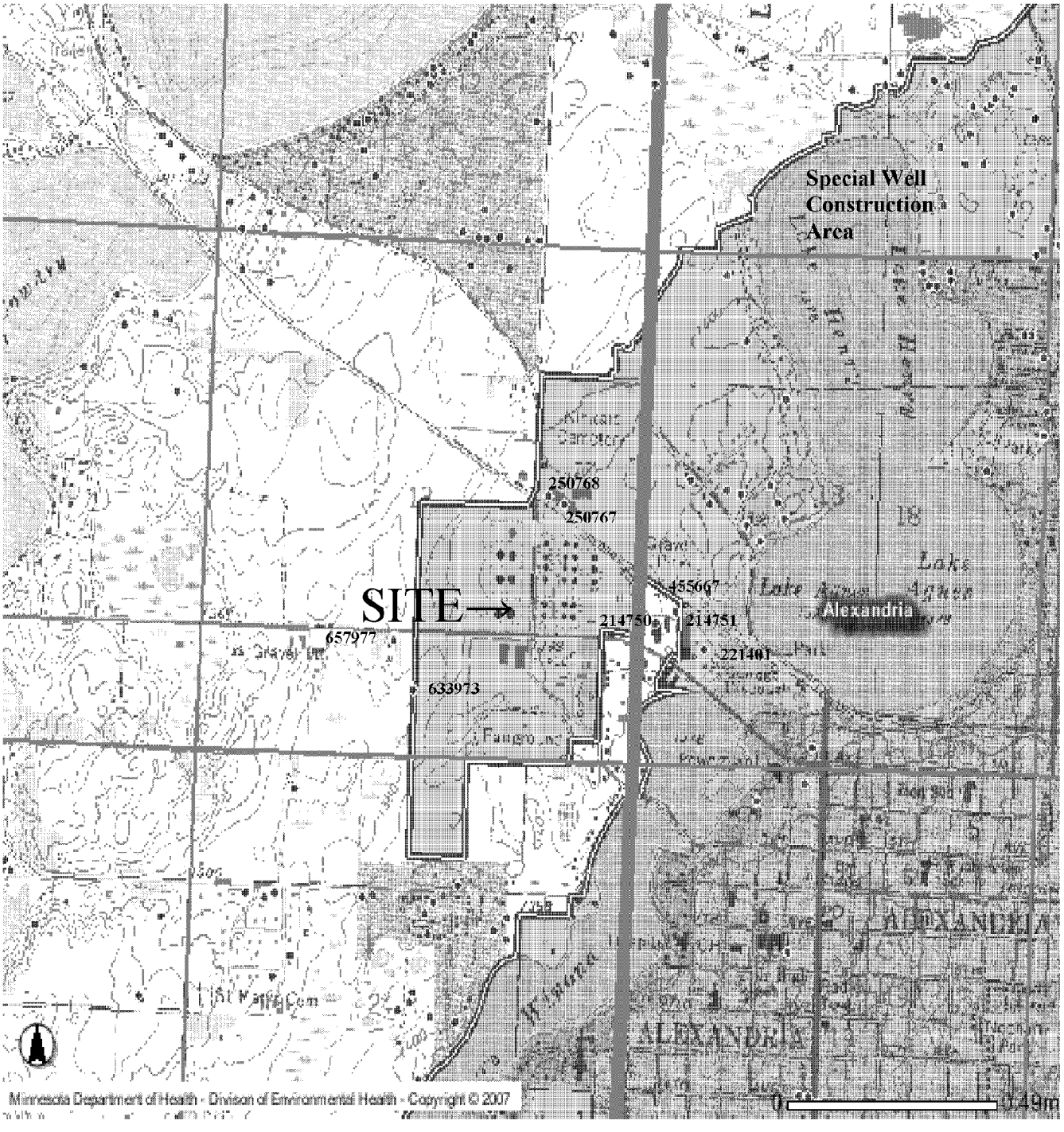
- **Alexandria**

SITE SUMMARY

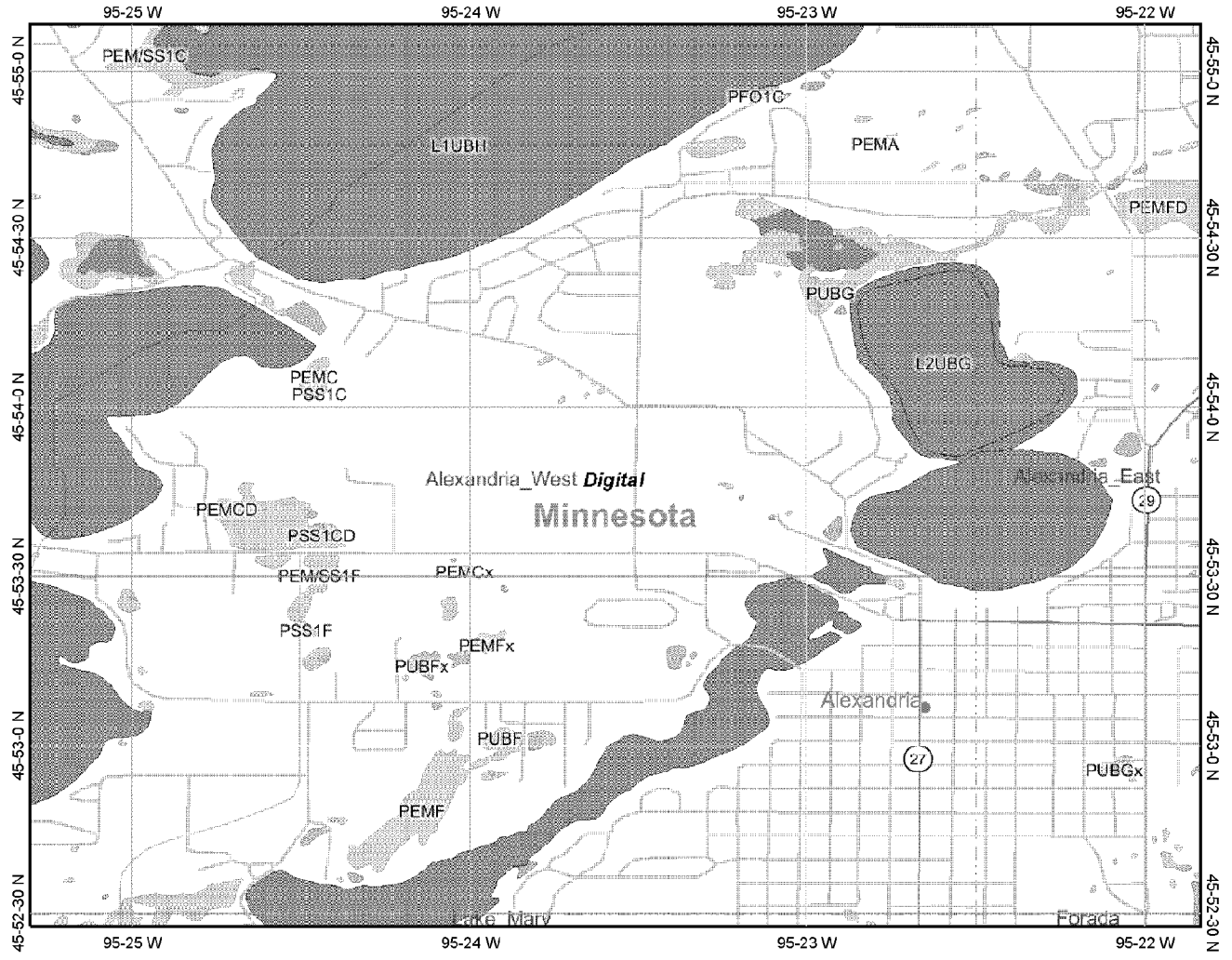
Site Name:	Alexandria
Fire Department:	Alexandra Fire Department 302 Fillmore Street Alexandria, MN 56308
Site Contact:	Dennis Stark, Fire Chief 320-763-6488

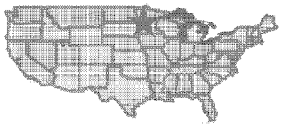
Training Location:	Various, including VoTech School, Magellan tank farm, and live burns. Ranking based on Magellan tank farm location.
Training Location Coordinates (X,Y):	314446.7, 5085004.48
Type of foam used in training:	AFFF: Fire chief unsure of foam brand, 3M-brand assumed Class A: Fire chief unsure of foam brand
Foam training frequency:	Annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Storm sewer, city has stormwater retention pond system
Annual foam use:	AFFF: less than 10 gallons Class A: more than 10 gallons
Nearest surface water:	Less than 1/4 mile southeast
Nearest wetland:	1/4 to 1/2 mile north
Karst Area:	Site is not located in a karst area
Nearest water well:	Less than 1/4 mile northeast and southwest
Nearest Wellhead Protection Area:	Training site is located within a WPA
Nearest Source Water Assessment Area:	Training site is located within a SWAA
SITE RANKING:	**22**

ALEXANDRIA CWI Well Map



Alexandria 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: 1:34,655

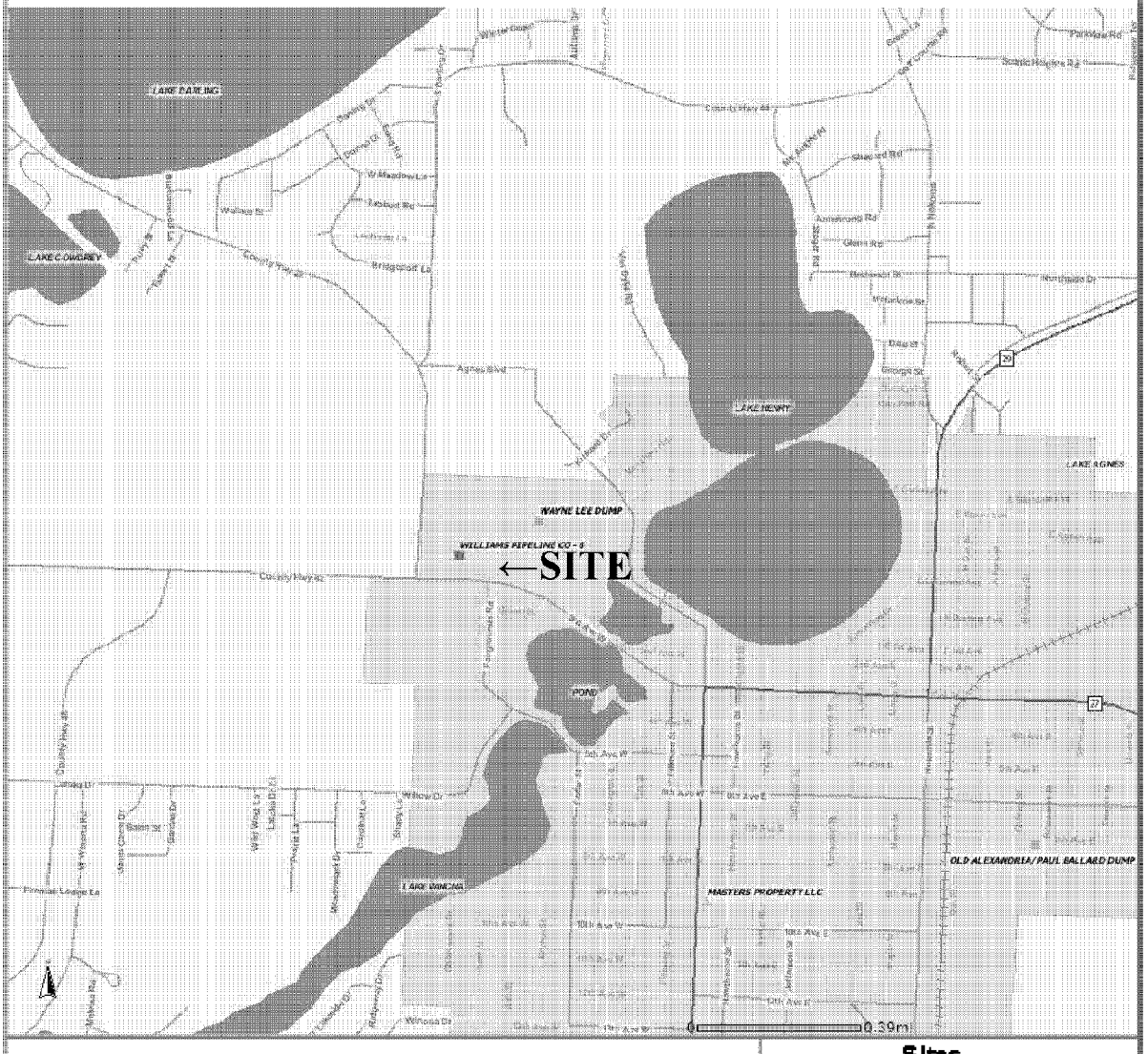
Map center: 45° 53' 48" N, 95° 23' 34" W

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2233.0341

STATE_02827153

Alexandria *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_02827154

2233.0342

Minnesota Unique Well No.
214750

County Douglas
Quad Alexandria West
Quad ID 180B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/07/1988
Update Date 03/11/2005
Received Date

Well Name LAND O' LAKES 1
Township Range Dir Section Subsections Elevation
128 37 W 18 CBCCDA Elevation Method
1402 ft.
7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
108 ft.	108 ft.	00/00/1943

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
12 in. to 92 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES Make Type brass

Diameter	Slot/Gauze	Length	Set Between
12		16	92 ft. and 108 ft.

Well Address
ALEXANDRIA MN 56308

Geological Material	Color	Hardness	From	To
DRIFT			0	108

Static Water Level
40 ft. from Land surface Date Measured 00/00/1943

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: 314904 Y: 5084956

Nearest Known Source of Contamination
__feet __direction __type
Well disinfected upon completion? ☑ Yes ☑ No

Pump ☑ Not Installed Date Installed 04/07/1944
Manufacturer's name POMONA Model number __ HP 40 Volts
Length of drop Pipe __ft. Capacity 500 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

First Bedrock
Last Strat Unknown deposit type
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

Mccarthy Well Co.	27022	
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report | 214750 | Printed 9/12/2008 HE-01205-07

Minnesota Unique Well No.
214751

County Douglas
Quad Alexandria West
Quad ID 180B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/07/1988
Update Date 03/11/2005
Received Date

Well Name LAND O' LAKES 2
Township Range Dir Section Subsections Elevation 1395 ft.
128 37 W 18 CBCDBB Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
140 ft.	131 ft.	04/00/1947

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
20 in. to 96 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES Make Type

Diameter	Slot/Gauze	Length	Set Between
12		26.7	96 ft. and 131 ft.

Well Address

ALEXANDRIA MN 56308

Geological Material	Color	Hardness	From	To
SAND AND GRAVEL			0	40
BLUE CLAY			40	88
HARDPAN			88	96
SAND - SOME GRAVEL			96	112
SAND & GRAVEL			112	122
SAND AND SOME GRAVEL			122	133
FINE SAND			133	135
SAND AND CLAY			135	140

Static Water Level
36 ft. from Land surface Date Measured 04/00/1947

PUMPING LEVEL (below land surface)
58.8 ft. after 5 hrs. pumping 542 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 IS A GRAVEL PACK 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. 314980 Y. 5084989

Nearest Known Source of Contamination
__feet __direction __type
Well disinfected upon completion? ☑ Yes ☑ No

Pump ☑ Not Installed Date Installed 04/00/1947
Manufacturer's name PAMONA Model number __ HP 30 Volts 220
Length of drop Pipe 90 ft. Capacity 400 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

License Business Name	Lic. Or Reg. No.	Name of Driller
Keys Well Co.	62012	WALIN, C.

First Bedrock
Last Strat Clay & sand
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | 214751 | Printed 9/12/2008 HE-01205-07

Minnesota Unique Well No.
221401

County Douglas
Quad Alexandria West
Quad ID 180B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/07/1988
Update Date 03/11/2005
Received Date

Well Name ALEXANDRIA TW-4
Township Range Dir Section Subsections Elevation
128 37 W 18 CCABBD Elevation Method 1395 ft. 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
115 ft.	115 ft.	11/00/1954

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

Well Address

ALEXANDRIA MN 56308

Open Hole from ft. to ft

Screen Make Type

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
TOP SOIL			0	4
SAND & GRAVEL			4	35
CLAY			35	70
CLAY & GRAVEL			70	95
SAND & GRAVEL			95	110
FINE SAND			110	115

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: 315085 Y: 5084873

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	KEMPER, R.
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 | 221401 | Printed 9/12/2008 HE-01205-07

Minnesota Unique Well No.
250767

County Douglas
Quad Alexandria West
Quad ID 180B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 09/05/1996
Update Date 08/29/2001
Received Date

Well Name ALEXANDRIA EXTRUSION 1
Township Range Dir Section Subsections Elevation
128 38 W 13 ADCCDA Elevation Method 1398 ft. 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
100 ft.	100 ft.	

Drilling Method Non-specified Rotary

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
6 in. to ft.	lbs./ft.	

Open Hole from ft. to ft

Screen YES Make Type

Diameter	Slot/Gauze	Length	Set Between

Well Address
401 22 CR NW
ALEXANDRIA MN 56308

Geological Material	Color	Hardness	From	To
NO RECORD			0	100

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
ONLY ONE WELL ACTIVE NO.2 OWNER 6-8-2001.

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: 314564 Y: 5085325

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 — License Business Name
MNDNR — Lic. Or Reg. No.
Name of Driller

First Bedrock
Last Strat Unknown deposit type
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | 250767 | Printed 9/12/2008
HE-01205-07

Minnesota Unique Well No.
250768

County Douglas
Quad Alexandria West
Quad ID 180B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 09/05/1996
Update Date 08/29/2001
Received Date

Well Name ALEXANDRIA EXTRUSION 2
Township Range Dir Section Subsections Elevation
128 38 W 13 ADCCDB Elevation Method 1398 ft. 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
110 ft.	110 ft.	

Drilling Method Non-specified Rotary

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
6 in. to ft.	lbs./ft.	

Open Hole from ft. to ft

Screen YES Make Type

Diameter	Slot/Gauze	Length	Set Between

Well Address
401 22 CR NW
ALEXANDRIA MN 56308

Geological Material	Color	Hardness	From	To
NO RECORD			0	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
ONLY ONE WELL ACTIVE WELL NO.2 OWNER 6-8-2001.

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: 314505 Y: 5085353

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 — License Business Name
MNDNR — Lic. Or Reg. No.
Name of Driller

First Bedrock
Last Strat Unknowr deposit type
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report | 250768 | Printed 9/12/2008 HE-01205-07

Minnesota Unique Well No.
455667

County Douglas
Quad Alexandria West
Quad ID 180B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 01/13/1992
Update Date 08/28/2001
Received Date

Well Name LEE, WAYNE
Township Range Dir Section Subsections Elevation
128 37 W 18 CBDADB Elevation Method
1390 ft.
7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
81 ft.	81 ft.	04/21/1989

Drilling Method Non-specified Rotary

Drilling Fluid Revert

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 1.5 ft.

Casing Diameter	Weight	Hole Diameter
8 in. to 71 ft.	lbs./ft.	12 in. to 81 ft.

Well Address
707 VAN DYKE RD
ALEXANDRIA MN 56308

Open Hole from ft. to ft.

Screen YES Make COOK Type stainless steel

Diameter	Slot/Gauze	Length	Set Between
8	70	10	71 ft. and 81 ft.

Geological Material	Color	Hardness	From	To
TOPSOIL	BLACK	SOFT	0	1
SAND	BROWN	SOFT	1	4
SAND	GRAY	SOFT	4	16
CLAY	BROWN	MEDIUM	16	32
CLAY	GRAY	MEDIUM	32	62
SAND	GRAY	MEDIUM	62	81

Static Water Level
19 ft. from Land surface Date Measured 04/27/1989

PUMPING LEVEL (below land surface)
41.1 ft. after 7 hrs. pumping 425 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: Well grouted, type unknown from to ft.

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Information from owner
Date 08/17/2001
System UTM - Nad83, Zone15, Meters
X: 315101 Y: 5085049

Nearest Known Source of Contamination
__feet __direction __type
Well disinfected upon completion? ☑ Yes ☑ No

Pump ☑ Not Installed Date Installed 05/26/1989
Manufacturer's name VALLEY Model number 8SC450 HP 15 Volts 460
Length of drop Pipe 50 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

First Bedrock
Last Strat Sand-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

License Business Name	Lic. Or Reg. No.	Name of Driller
Traut S.m. Well Co.	21535	NEYENS, J.

County Well Index Online Report 455667 Printed 9/12/2008
HE-01205-07

Minnesota Unique Well No.
633973

County Douglas
Quad Alexandria West
Quad ID 180B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 07/17/2000
Update Date 03/11/2005
Received Date

Well Name SHERIFF'S MAINTENCE BLDG
Township Range Dir Section Subsections Elevation 1378 ft.
128 38 W 13 CDADDC Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
101 ft.	101 ft.	09/21/1999

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 97 ft.	lbs./ft.	8 in. to 101 ft.

Open Hole from ft. to ft

Screen YES Make COOK Type stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	12	4	97 ft. and 101 ft.

Geological Material	Color	Hardness	From	To
TOP SOIL	BLACK	SOFT	0	1
GRAVEL	BROWN	SOFT	1	10
CLAY	GRAY	MEDIUM	10	22
GRAVEL	BROWN	SOFT	22	27
CLAY	GRAY	MEDIUM	27	34
CLAY	TAN	MEDIUM	34	50
DIRTY GRAVEL	GRAY	SOFT	50	60
SAND	GRAY	SOFT	60	101

Static Water Level
15 ft. from Land surface Date Measured 09/2?/1999

PUMPING LEVEL (below land surface)
100 ft. after 2 hrs. pumping 150 g.p.m.

Well Head Completion
Pitless adapter manufacturer MAAS 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 Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Tag on well
Date N/A
System UTM - Nad83, Zone15, Meters
X: 313998 Y: 5084747

Nearest Known Source of Contamination
__feet __direction __type
Well disinfected upon completion? ☑ Yes ☑ No

Pump ☑ Not Installed Date Installed 02/28/2000
Manufacturer's name AERMOTOR Model number A+12-50 HP 0.5 Volts
Length of drop Pipe 40 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-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft

Well Contractor Certification
Traut S m. Well Co. | 21535 | Name of Driller
License Business Name | Lic. Or Reg. No.

County Well Index Online Report | 633973 | Printed 9/12/2008
HE-01205-07

Minnesota Unique Well No.
657977

County Douglas
Quad Alexandria West
Quad ID 180B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/05/2002
Update Date 03/11/2005
Received Date

Well Name SWEDBURG WOOD PRODUCTS

Township	Range	Dir	Section	Subsections	Elevation	
128	38	W	13	CDB	Elevation Method	1380 ft. Calc from DEM (USGS 7.5 m n or equiv.)

Well Depth	Depth Completed	Date Well Completed
78 ft.	78 ft.	06/19/2001

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☑ Yes ☑ No
From Ft. to Ft.

Use Domestic

Casing Type Plastic Joint Solvent Welded Drive Shoe? ☑ Yes ☑ No Above/Below ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 74 ft.	lbs./ft.	7 in. to 78 ft.

Well Address
1420 82 CR W
ALEXANDRIA MN 56308

Open Hole from ft. to ft

Screen YES Make JOHNSON Type stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	15	4	74 ft. and 78 ft.

Geological Material	Color	Hardness	From	To
GRAVEL	BROWN	MEDIUM	0	35
SANDY CLAY	YELLOW	SOFT	35	56
CLAY	BLUE	MEDIUM	56	67
SAND	GRAY	SOFT	67	78

Static Water Level
16 ft. from Land surface Date Measured 06/19/2001

PUMPING LEVEL (below land surface)
40 ft. after 1 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: High solids bentonite from 0 to 30 ft. 3 bags
Grout Material: Cuttings from 30 to 70 ft.

Located Minnesota Department of Health
Unique Number Verification N/A
System UTM - Nad83, Zone15, Meters

Method GPS SA Off (averaged)
Date N/A
X: 313927 Y: 5084904

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

Abandoned Wells Does property have 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

Weisel K m Well Co.	21532	WEISEL K.
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report 657977 Printed 9/12/2008
HE-01205-07

- **Brooklyn Center**

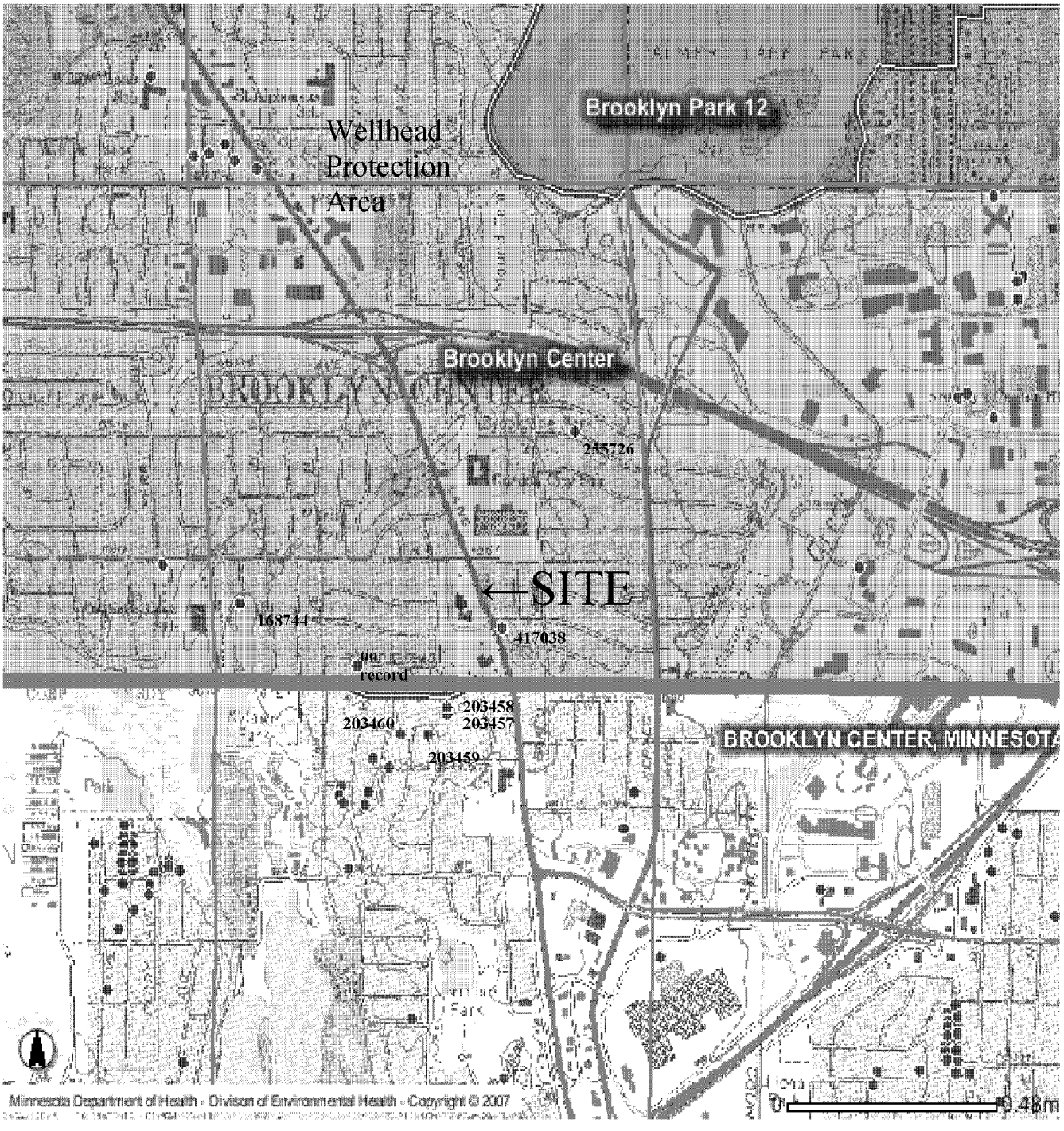
  - Brooklyn Boulevard
    - Dupont Avenue

SITE SUMMARY

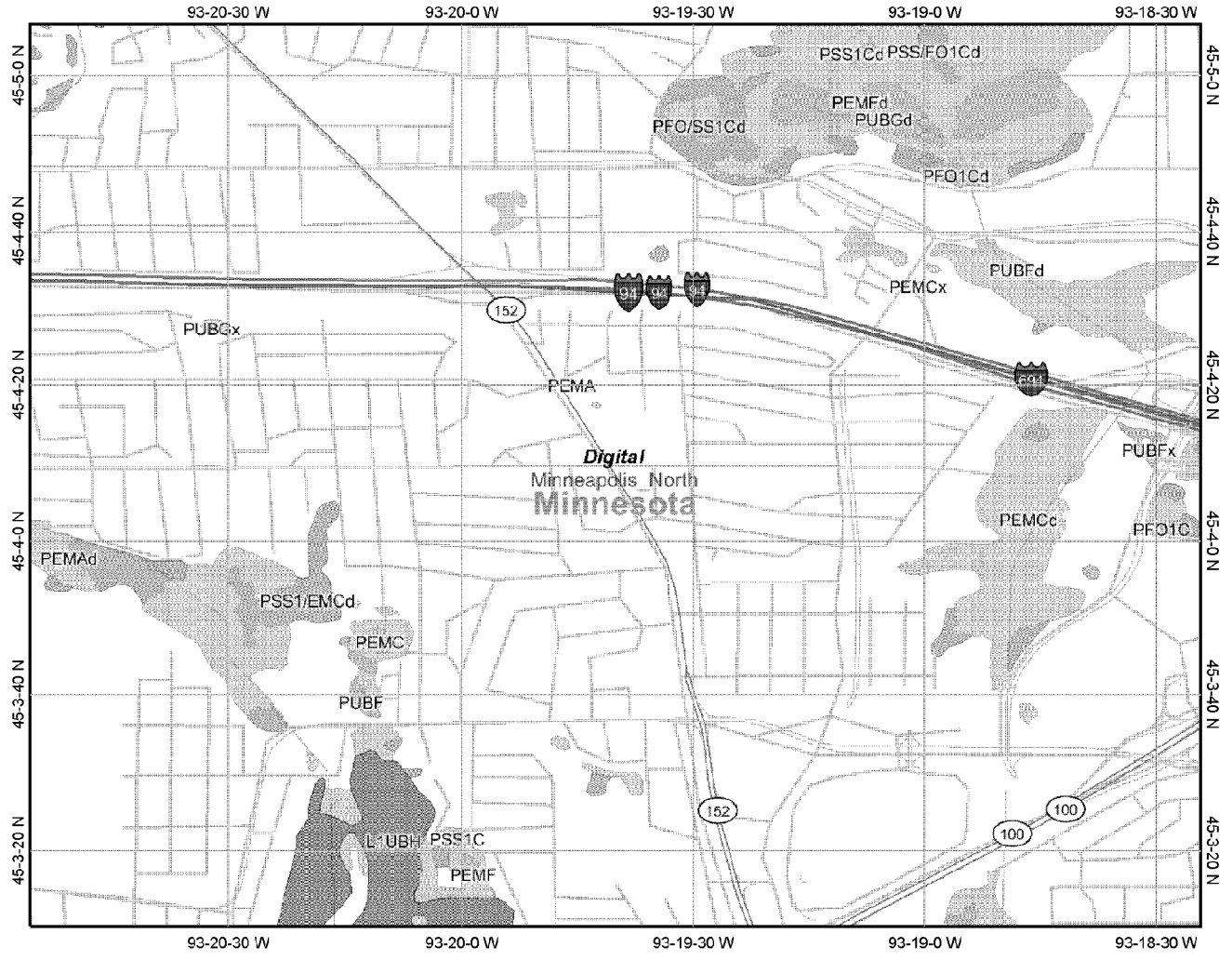
Site Name:	Brooklyn Center - Brooklyn Boulevard
Fire Department:	Brooklyn Center Fire Department 6301 Shingle Creek Parkway Brooklyn Center, MN 55430
Site Contact:	Not specified

Training Location:	Fire Station 1, 6250 Brooklyn Blvd., Brooklyn Center
Training Location Coordinates (X,Y):	474220.95, 4990604.8
Type of foam used in training:	Not specified, use of 3M foam in training assumed
Foam training frequency:	Quarterly
Foam use per training event:	5 to 10 gallons
Spent foam destination:	Ground, storm sewer
Annual foam use:	Not specified
Nearest surface water:	Twin Lakes River located 1/2 to 3/4 mile southwest
Nearest wetland:	Approximately 1/2 mile to the west and to the east
Karst Area:	Training site located in transition or covered karst area
Nearest water well:	<1/4 mile south
Nearest Wellhead Protection Area:	Site is located within a WPA
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**28**

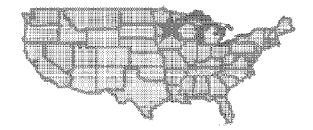
BROOKLYN CENTER - BROOKLYN BLVD CWI Well Map



Brooklyn Center - Brooklyn Blvd Wetland Map



Map center: 45° 4' 8" N, 93° 19' 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

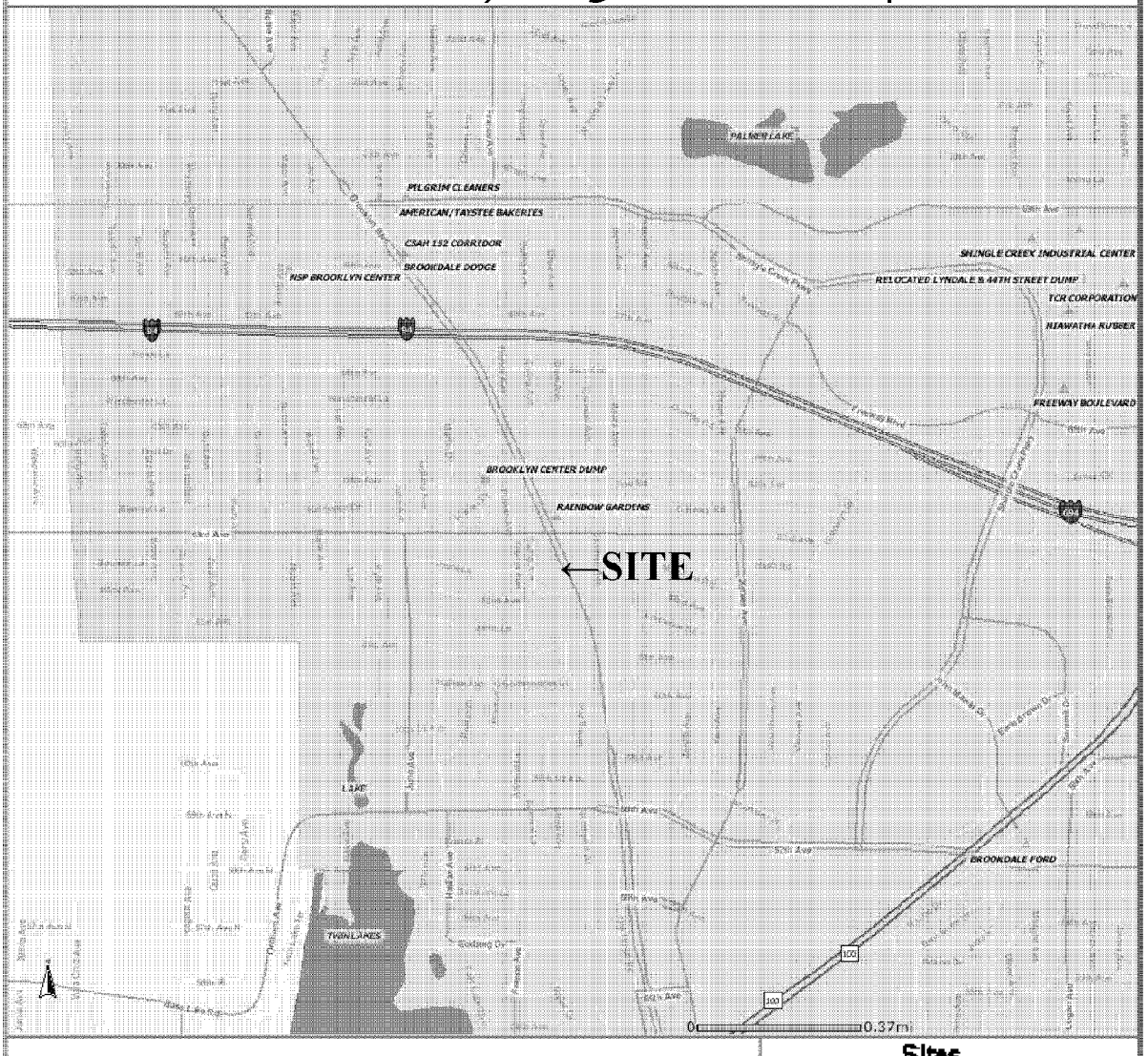
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This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

2233.0354

STATE_02827166

Brooklyn Center - Brooklyn Blvd.
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 delist from the use of this data.

Minnesota Pollution Control Agency

Sites

- Delisted State Superfund
- Permitted Solid Waste
- Unpermitted Dumps
- NPL/RAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

Minnesota Unique Well No.
168744

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 04/20/2007
Received Date

Well Name BROOKLYN CENTER ARBORETU
Township Range Dir Section Subsections Elevation 859 ft.
119 21 W 34 CCBDBC Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
114 ft.	114 ft.	10/13/1980

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 Threaded Drive Shoe? ☑ Yes ☑ No Above/Below 1 ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 108 ft.	11 lbs./ft.	4 in. to 114 ft.

Open Hole from 108 ft. to 114 ft.

Screen NO Make Type

Diameter	Slot/Gauze	Length	Set Between

Well Address
62ND AV
BROOKLYN CENTER MN 55429

Geological Material	Color	Hardness	From	To
SAND	BROWN		0	10
SAND & GRAVEL	BLACK		10	25
CLAY	BLACK		25	31
SAND & GRAVEL	BROWN		31	58
CLAY	BROWN		58	64
WATERSAND	TAN		64	77
GRAVEL	BROWN		77	80
WATER SAND	TAN		80	107
SANDSTONE	TAN		107	114

Static Water Level
8 ft from Land surface Date Measured 10/13/1980

PUMPING LEVEL (below land surface)
ft. after 4 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

Grout Material: Bentonite from to 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: 473356 Y: 4990560

Nearest Known Source of Contamination
__feet __direction __type
Well disinfected upon completion? ☑ Yes ☑ No

Pump ☑ Not Installed Date Installed 10/00/1980
Manufacturer's name RED JACKET Model number 8CC HP 1 Volts 230
Length of drop Pipe 63 ft. Capacity 21 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

Renner E.h. & Sons	02015	SIGAFOOS, R.
License Business Name	Lic. Or Reg. No.	Name of Driller

First Bedrock St Peter
Last Strat St.Peter
Aquifer St.Peter
Depth to Bedrock 107 ft.

County Well Index Online Report | 168744 | Printed 8/28/2008 HE-01205-07

Minnesota Unique Well No.
203457

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 HOWARD LAMKE
Township Range Dir Section Subsections Elevation 862 ft.
118 21 W 3 ABBBDC Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
125 ft.	125 ft.	08/11/1959

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 102 ft.	lbs./ft.	

Open Hole from 102 ft. to 125 ft.

Screen NO Make Type

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
40 ft. from Land surface Date Measured 08/1?/1959

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)

Well Address
3700 COMMODORE
BROOKLYN CENTER MN

Geological Material	Color	Hardness	From	To
NO RECORD			0	82
MUDDY SAND & GRAVEL			82	89
SAND ROCK			89	100
CLAY			100	103
SHALE			103	109
SAND ROCK			109	125

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: 474112 Y: 4990206

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 No Record
Last Strat St.Peter
Aquifer St.Peter
Depth to Bedrock ft.

Aamot Well Co.	27062	
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report 203457 Printed 8/28/2008
HE-01205-07

Minnesota Unique Well No.
203458

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
Township Range Dir Section Subsections Elevation
118 21 W 3 ABBBDC Elevation Method
862 ft.
7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
83 ft.	83 ft.	12/13/1955

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 ft

Screen YES Make JOHNSON Type

Diameter	Slot/Gauze	Length	Set Between
2		7.2	0 ft. and ft.

Well Address
3700 COMMODORE DR
BROOKLYN CENTER MN

Geological Material	Color	Hardness	From	To
PIT			0	5
SANDY CLAY			5	25
GRAVEL & CLAY			25	35
GRAVEL & STONES			35	45
PACKED CLAY & GRAVEL			45	80
DECOMPOSED LIME & GRAVEL			80	83
ST. PETER SANDSTONE			83	83

Static Water Level
40 ft. from Land surface Date Measured 12/13/1955

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 474111 Y 4990230

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
Aamot Well Co. 27052
License Business Name Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat St.Peter
Aquifer
Depth to Bedrock ft

County Well Index Online Report 203458 Printed 8/28/2008
HE-01205-07

Minnesota Unique Well No.
203459

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

Township Range Dir Section Subsections Elevation — 862 ft.
118 21 W 3 ABBCCB Elevation Method — 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
201 ft.	201 ft.	11/19/1955

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
4 in. to 183 ft.	lbs./ft.	

Open Hole from ft. to ft

Screen Make Type

Diameter	Slot/Gauze	Length	Set Between

Well Address
6018 ADMIRAL PL
BROOKLYN CENTER MN

Geological Material	Color	Hardness	From	To
PIT			0	5
SAND			5	25
SANDY CLAY	GRAY		25	40
CLAY & COARSE SAND	RED		40	70
CLAY & SAND	YELLOW		70	98
HARDPAN			98	102
SHALE	RED		102	114
SAND ROCK & SHALE	WHITE		114	134
SAND ROCK & SHALE	BROWN		134	162
SAND ROCK & SHALE ROCK	BROWN		162	184
SHALE & SANDROCK			184	201

Static Water Level
25 ft. from Land surface Date Measured 11/19/1955

PUMPING LEVEL (below land surface)
0 ft. after 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

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: 474042 Y: 4990141

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 St.Peter
Aquifer St.Peter
Depth to Bedrock ft.

License Business Name	Lic. Or Reg. No.	Name of Driller
Aamot Well Co.	27062	

County Well Index Online Report — 203459 — Printed 8/28/2008
HE-01205-07

STATE_02827171

2233.0359

Minnesota Unique Well No.
203460

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

Township Range Dir Section Subsections Elevation
118 21 W 3 BAADCB Elevation Method
862 ft.
7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
153 ft.	153 ft.	11/11/1957

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

Well Address
6019 PEARSON DR
BROOKLYN CENTER MN

Open Hole from ft. to ft

Screen YES Make JOHNSON Type

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
PIT			0	5
CLAYISH SAND	BROWN		5	24
CLAYISH SAND	RED		24	37
SANDY CLAY & GRAVEL	BROWN		37	68
CLAY SAND & GRAVEL	GRAY		68	91
WHITE SAND & SHALE			91	100
CLAY RED, WHITE, BLUE	BROWN		100	112
BROWN SAND & SHALE			112	114
COARSE SAND			114	128
SHALE & SAND	BLU/WHT	SOFT	128	153

Static Water Level
18 ft. from Land surface Date Measured 11/1?/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: 473943 Y: 4990143

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 Unknowr deposit type
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

Aamot Well Co.	27062	
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report | 203460 | Printed 8/28/2008 HE-01205-07

Minnesota Unique Well No.
255726

County Hennepin
Quad Minneapolis North
Quad ID 120D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 11/05/2001
Update Date 04/20/2007
Received Date

Well Name EARL BROWN FARM
Township Range Dir Section Subsections Elevation 860 ft.
119 21 W 34 ADCCDD Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
148 ft.	148 ft.	

Drilling Method --

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 ft.

Casing Diameter	Weight	Hole Diameter
10 in. to 109 ft.	lbs./ft.	

Open Hole from 109 ft. to 148 ft.

Screen NO Make Type

Diameter	Slot/Gauze	Length	Set Between

Well Address
3200 65TH ST N
BROOKLYN PARK MN 55429

Geological Material	Color	Hardness	From	To
GLACIAL DRIFT			0	85
ST. PETER SANDSTONE			85	114
PRAIRIE DU CHIEN GROUP			114	148

Static Water Level
22 ft from Land surface Date Measured 11/05/2001

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 11-5-2001.

Grouting Information Well Grouted? ☑ Yes ☑ No

Located Minnesota Geological Survey
Unique Number Verification Address verification
System UTM - Nad83, Zone15, Meters

Method Digitization (Screen) - Map (1:24,000)
Date N/A
X: 474577 Y 4991109

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 St Peter
Last Strat Prairie Du Chien Group

Aquifer St.Peter-Prairie Du Chien
Depth to Bedrock 85 ft.

Minnesota Geological Survey	MGS	
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report | 255726 | Printed 8/28/2008 HE-01205-07

Minnesota Unique Well No.
417038

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 04/20/2007
Received Date

Well Name LES CAULT, JOHN
Township Range Dir Section Subsections Elevation
119 21 W 34 DCDBAB Elevation Method
860 ft.
7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
75 ft.	75 ft.	06/19/1985

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 1 ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 70 ft.	12 lbs./ft.	

Well Address
3507 62ND AV N
BROOKLYN CENTER MN 55429

Open Hole from ft. to ft.

Screen YES Make JOHNSON Type stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	8	5	70 ft. and 75 ft.

Geological Material	Color	Hardness	From	To
SAND & GRAVEL	BROWN	SOFT	0	19
CLAY	BLUE	MEDIUM	19	30
SAND	YELLOW	SOFT	30	34
SANDY CLAY	GRAY	MEDIUM	34	53
SAND	BROWN	SOFT	53	60
ROCK	BROWN	HARD	60	63
SANDROCK	WHITE	SOFT	63	75

Static Water Level
20 ft. from Land surface Date Measured 06/19/1985

PUMPING LEVEL (below land surface)
20 ft. after 2 hrs. pumping 30 g.p.m.

Well Head Completion
Pitless adapter manufacturer WATERWATER Model SU5.5
☑ 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 55 ft.
Grout Material: Bentonite from 55 to 70 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: 474311 Y: 4990482

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 06/20/1985
Manufacturer's name AERMCTOR Model number SD1250 HP 0.5 Volts 115
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

License Business Name	Lic. Or Reg. No.	Name of Driller
Mc Alpine's Well Co.	27186	MCALPINE, G.

First Bedrock St.Peter
Last Strat St.Peter
Aquifer St.Peter
Depth to Bedrock 63 ft.

County Well Index Online Report

417038

Printed 8/28/2008
HE-01205-07

SITE SUMMARY

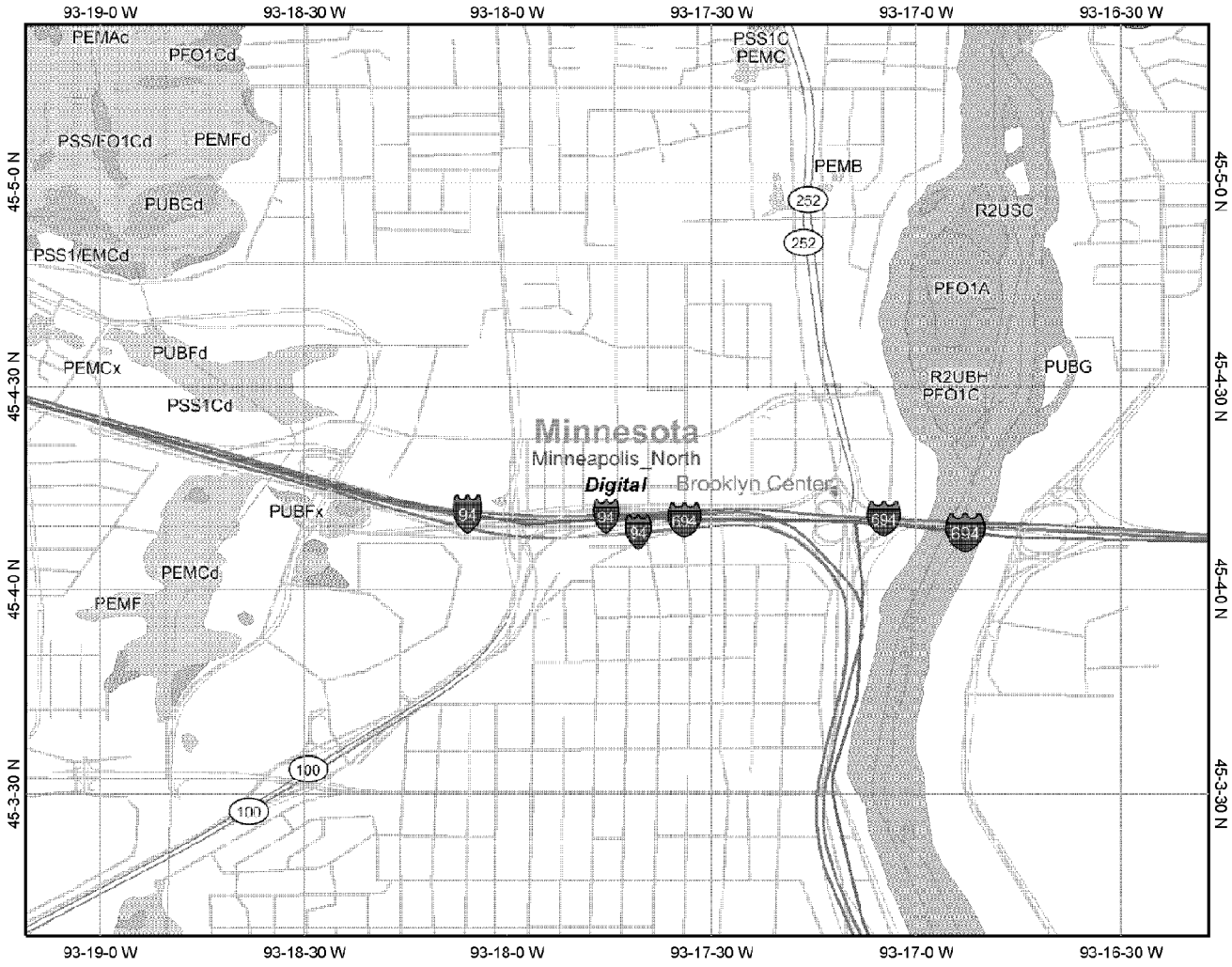
Site Name:	Brooklyn Center - Dupont Avenue North
Fire Department:	Brooklyn Center Fire Department 6301 Shingle Creek Parkway Brooklyn Center, MN 55430
Site Contact:	Not specified

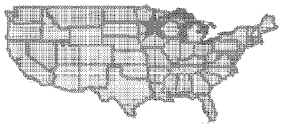
Training Location:	Fire Station 2, 6500 Dupont Avenue North, Brooklyn Center
Training Location Coordinates (X,Y):	476827.47, 4991109.81
Type of foam used in training:	Not specified, use of 3M foam in training assumed
Foam training frequency:	Quarterly
Foam use per training event:	5 to 10 gallons
Spent foam destination:	Ground, storm sewer
Annual foam use:	Not specified
Nearest surface water:	Mississippi River located 1/2 to 3/4 mile east
Nearest wetland:	1/2 to 3/4 mile west
Karst Area:	Training site located in transition or covered karst area
Nearest water well:	<1/4 mile south
Nearest Wellhead Protection Area:	Site is located within WPA
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**28**

BROOKLYN CENTER - DUPONT AVE N CWI Well Map



Brooklyn Center-Dupont Av N Wetlands 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

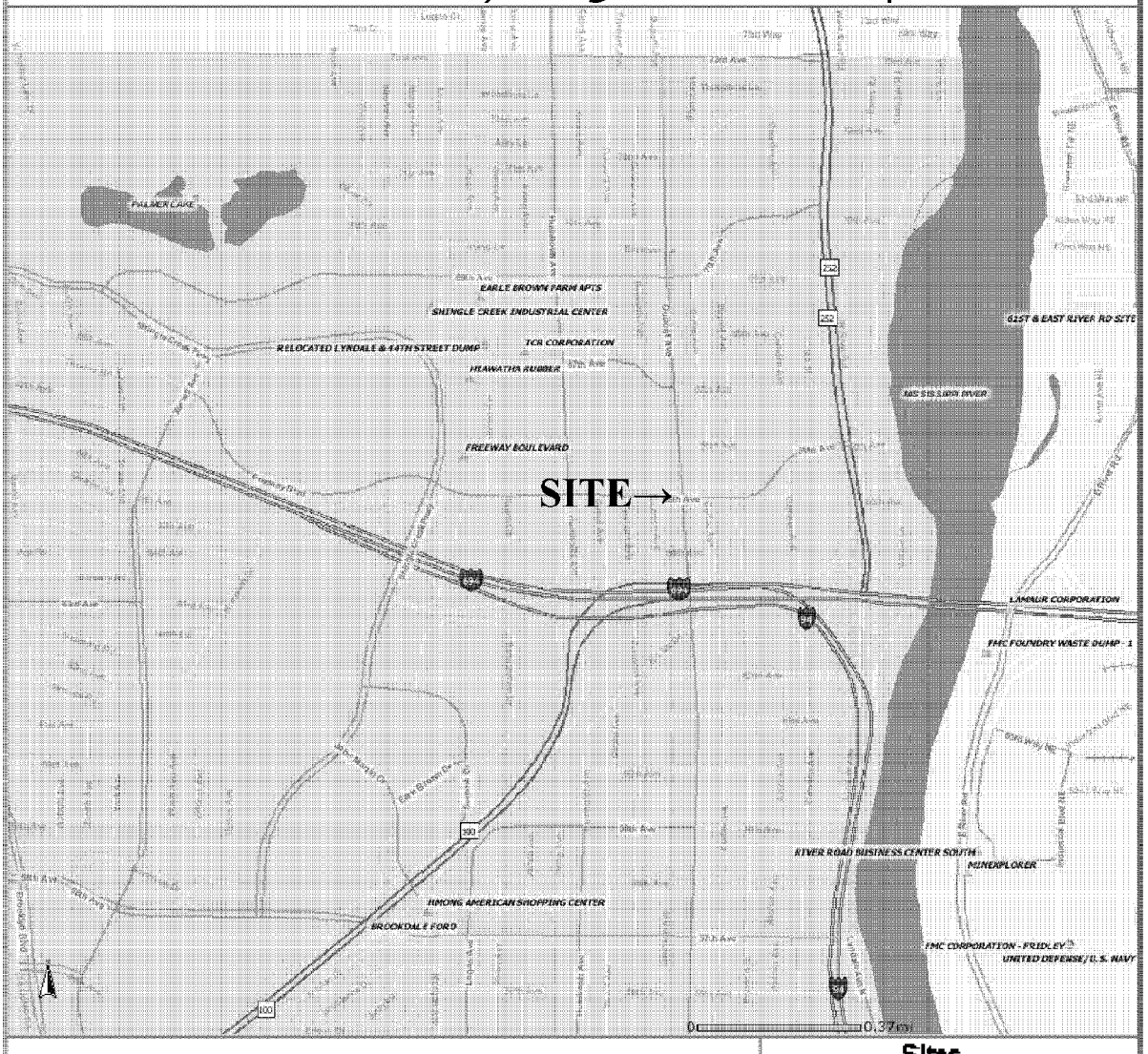
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This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

2233.0365

STATE_02827177

Brooklyn Center - Dupont Avenue N.
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

Minnesota Unique Well No.
149831

County Hennepin
Quad Minneapolis North
Quad ID 120D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/23/1991
Update Date 04/20/2007
Received Date

Well Name CISON, LEONARD
Township Range Dir Section Subsections Elevation
119 21 W 36 DCBCCB Elevation Method
841 ft.
7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
124 ft.	124 ft.	07/13/1978

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 97 ft.	10.79 lbs./ft.	4 in. to 124 ft.

Well Address
6218 CAMDEN AV N
BROOKLYN CENTER MN 55428

Open Hole from 97 ft. to 124 ft.

Screen NO Make Type

Diameter	Slot/Gauze	Length	Set Between
0		1	2712 ft. and 2778 ft.

Geological Material	Color	Hardness	From	To
SAND			0	18
GRAVEL			18	97
GLENWOOD SANDSTONE			97	120
PLATTEVILLE			120	124

Static Water Level
25 ft. from Land surface Date Measured 07/13/1978

PUMPING LEVEL (below land surface)
ft. after 3 hrs. pumping 40 g.p.m.

Well Head Completion
Pitless adapter manufacturer CLAYTON-MARK 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 Address verification
Date N/A

System UTM - Nad83, Zone15, Meters
X: 477292 Y: 4990544

Nearest Known Source of Contamination
__feet __direction __type
Well disinfected upon completion? ☑ Yes ☑ No

Pump ☑ Not Installed Date Installed 07/13/1978
Manufacturer's name RED JACKET Model number 8CC HP 1 Volts 230
Length of drop Pipe 54 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

Renner E.H. & Sons	27015	WOLTERS, P.
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 97 ft.

County Well Index Online Report | 149831 | Printed 9/2/2008
HE-01205-07

Minnesota Unique Well No.
203322

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 04/20/2007
Received Date

Well Name NELSON, A.
Township Range Dir Section Subsections Elevation 850 ft.
119 21 W 36 CACBBD Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
114 ft.	114 ft.	08/15/1959

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
3 in. to ft.	lbs./ft.	

Well Address
6407 DUPONT AV N
BROOKLYN CENTER MN 55430

Open Hole from ft. to ft

Screen NO Make Type

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
SAND			0	14
CLAY	BLUE		14	52
SAND	BROWN		52	68
SAND & CLAY			68	90
SANDSTONE	YELLOW		90	114

Static Water Level
30 ft from Land surface Date Measured 08/15/1959

PUMPING LEVEL (below land surface)
30 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)

REMARKS
DRILLED BY C. WUNDERLICH.

Grouting Information Well Grouted? ☑ Yes ☑ No

Grout Material: Well grouted, type unknown from to 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: 476869 Y: 4990838

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 — License Business Name
MNDNR — Lic. Or Reg. No.
Name of Driller

First Bedrock St Peter
Last Strat St.Peter
Aquifer St.Peter
Depth to Bedrock 90 ft.

County Well Index Online Report 203322 Printed 8/28/2008
HE-01205-07

Minnesota Unique Well No.
203327

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 04/20/2007
Received Date

Well Name STARK, DON
Township Range Dir Section Subsections Elevation 838 ft.
119 21 W 36 CDAADB Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
110 ft.	110 ft.	08/16/1956

Drilling Method Jetted

Drilling Fluid --

Well Hydrofractured? ☑ Yes ☑ No
From Ft. to Ft.

Use Domestic

Casing Type Galvanized Joint No Information Drive Shoe? ☑ Yes ☑ No Above/Below ft.

Casing Diameter	Weight	Hole Diameter
2 in. to ft.	lbs./ft.	

Well Address
6306 CAMDEN AV N
BROOKLYN CENTER MN 55430

Open Hole from ft. to ft

Screen NO Make Type

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
SAND			0	18
CLAY	BROWN		18	79
SAND	BROWN		79	101
SANDSTONE		HARD	101	110

Static Water Level
29 ft. from Land surface Date Measured 08/16/1956

PUMPING LEVEL (below land surface)
29 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)

REMARKS
WELL DRILLED BY C. WUNDERLICH.

Grouting Information Well Grouted? ☑ Yes ☑ No

Grout Material: Well grouted, type unknown from to 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: 477216 Y: 4990639

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 St.Peter
Last Strat St.Peter
Aquifer St.Peter
Depth to Bedrock 101 ft.

Minnesota Dept. of Natural Resources	MNDNR	
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report 203327 Printed 9/2/2008
HE-01205-07

Minnesota Unique Well No.
203328

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 04/20/2007
Received Date

Well Name

Township Range Dir Section Subsections Elevation — 840 ft.
119 21 W 36 CDACDB Elevation Method — 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
106 ft.	106 ft.	10/21/1955

Drilling Method Jetted

Drilling Fluid
--

Well Hydrofractured? ☑ Yes ☑ No
From Ft. to Ft.

Use Domestic

Casing Type Galvanized Joint No Information Drive Shoe? ☑ Yes ☑ No Above/Below ft.

Casing Diameter	Weight	Hole Diameter
2 in. to ft.	lbs./ft.	

Open Hole from ft. to ft

Screen NO Make Type

Diameter	Slot/Gauze	Length	Set Between

Well Address
6221 CADMEN AV N
BROOKLYN CENTER MN 55430

Geological Material	Color	Hardness	From	To
SAND			0	39
CLAY	BROWN		39	84
SAND GRAVEL			84	96
SANDSTONE			96	106

Static Water Level
29 ft. from Land surface Date Measured 10/2?/1955

PUMPING LEVEL (below land surface)
29 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)

REMARKS
WELL DRILLED BY C. WUNDERLICH.

Grouting Information Well Grouted? ☑ Yes ☑ No

Grout Material: Well grouted, type unknown from to 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: 477221 Y: 4990575

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 St.Peter
Last Strat St.Peter
Aquifer St.Peter
Depth to Bedrock 96 ft.

Minnesota Dept. of Natural Resources	MNDNR	
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report — 203328 — Printed 9/2/2008
HE-01205-07

Minnesota Unique Well No.
203329

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 04/20/2007
Received Date

Well Name

Township Range Dir Section Subsections Elevation — 840 ft.
119 21 W 36 CDADAB Elevation Method — 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
110 ft.	110 ft.	09/29/1955

Drilling Method Jetted

Drilling Fluid --

Well Hydrofractured? ☑ Yes ☑ No
From Ft. to Ft.

Use Domestic

Casing Type Galvanized Joint No Information Drive Shoe? ☑ Yes ☑ No Above/Below ft.

Casing Diameter	Weight	Hole Diameter
2 in. to ft.	lbs./ft.	

Well Address
6227 CADMEN AV N
BROOKLYN CENTER MN 55430

Open Hole from ft. to ft

Screen NO Make Type

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
SAND			0	41
CLAY	BROWN		41	86
SAND GRAVEL			86	101
SANDSTONE			101	110

Static Water Level
29 ft. from Land surface Date Measured 09/29/1955

PUMPING LEVEL (below land surface)
29 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)

REMARKS
WELL DRILLED BY C. WUNDERLICH.

Grouting Information Well Grouted? ☑ Yes ☑ No

Grout Material: Well grouted, type unknown from to 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: 477204 Y: 4990594

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 St.Peter
Last Strat St.Peter
Aquifer St.Peter
Depth to Bedrock 101 ft.

Minnesota Dept. of Natural Resources	MNDNR	
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report — 203329 — Printed 9/2/2008
HE-01205-07

Minnesota Unique Well No.
203330

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 04/20/2007
Received Date

Well Name

Township Range Dir Section Subsections Elevation — 841 ft.
119 21 W 36 CDADDC Elevation Method — 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
105 ft.	105 ft.	08/19/1955

Drilling Method Jetted

Drilling Fluid --

Well Hydrofractured? ☑ Yes ☑ No
From Ft. to Ft.

Use Domestic

Casing Type Galvanized Joint No Information Drive Shoe? ☑ Yes ☑ No Above/Below ft.

Casing Diameter	Weight	Hole Diameter
2 in. to ft.	lbs./ft.	

Open Hole from ft. to ft

Screen NO Make Type

Diameter	Slot/Gauze	Length	Set Between

Well Address
6215 CADMEN AV N
BROOKLYN CENTER MN 55430

Geological Material	Color	Hardness	From	To
SAND			0	35
CLAY	BROWN		35	88
SANDSTONE			88	105

Static Water Level
29 ft. from Land surface Date Measured 08/19/1955

PUMPING LEVEL (below land surface)
29 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)

REMARKS
WELL DRILLED BY C. WUNDERLICH.

Grouting Information Well Grouted? ☑ Yes ☑ No

Grout Material: Well grouted, type unknown from to 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: 477231 Y: 4990557

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 St.Peter
Last Strat St.Peter
Aquifer St.Peter
Depth to Bedrock 88 ft.

Minnesota Dept. of Natural Resources	MNDNR	
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report — 203330 — Printed 9/2/2008
HE-01205-07

Minnesota Unique Well No.
203331

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 04/20/2007
Received Date

Well Name MORKLEY, GENE
Township Range Dir Section Subsections Elevation 846 ft.
119 21 W 36 CDBCCB Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
58 ft.	58 ft.	09/15/1956

Drilling Method Jetted

Drilling Fluid --

Well Hydrofractured? ☑ Yes ☑ No
From Ft. to Ft.

Use Domestic

Casing Type Galvanized Joint No Information Drive Shoe? ☑ Yes ☑ No Above/Below 0 ft.

Casing Diameter	Weight	Hole Diameter
2 in. to ft.	lbs./ft.	

Open Hole from ft. to ft

Screen Make Type

Diameter	Slot/Gauze	Length	Set Between

Well Address
6218 DUPONT AV N
BROOKLYN CENTER MN 55430

Geological Material	Color	Hardness	From	To
SAND & GRAVEL			0	19
CLAY	BLUE		19	50
WATER BEARING SAND			50	58

Static Water Level
32 ft. from Land surface Date Measured 09/15/1956

PUMPING LEVEL (below land surface)
33 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 Address verification
Date N/A

System UTM - Nad83, Zone15, Meters
X: 476886 Y: 4990566

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

Pumarlo Well Co.	27023	PUMARLO, 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 | 203331 | Printed 9/2/2008
HE-01205-07

Minnesota Unique Well No.
203333

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 04/20/2007
Received Date

Well Name STRUCK, DON
Township Range Dir Section Subsections Elevation 838 ft.
119 21 W 36 DCBBCC Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
105 ft.	105 ft.	05/17/1956

Drilling Method Jetted

Drilling Fluid --

Well Hydrofractured? ☑ Yes ☑ No
From Ft. to Ft.

Use Domestic

Casing Type Galvanized Joint No Information Drive Shoe? ☑ Yes ☑ No Above/Below ft.

Casing Diameter	Weight	Hole Diameter
2 in. to ft.	lbs./ft.	

Open Hole from ft. to ft

Screen NO Make Type

Diameter	Slot/Gauze	Length	Set Between

Well Address
6230 CADMEN AV N
BROOKLYN CENTER MN 55430

Geological Material	Color	Hardness	From	To
SAND			0	31
CLAY	BROWN		31	85
SAND & GRAVEL			85	91
SANDSTONE			91	105

Static Water Level
29 ft. from Land surface Date Measured 05/17/1956

PUMPING LEVEL (below land surface)
29 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)

REMARKS
DRILLED BY C. WUNDERLICH.

Grouting Information Well Grouted? ☑ Yes ☑ No

Grout Material: Well grouted, type unknown from to 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: 477246 Y: 4990614

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 St.Peter
Last Strat St.Peter
Aquifer St.Peter
Depth to Bedrock 91 ft.

Minnesota Dept. of Natural Resources	MNDNR	
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report 203333 Printed 9/2/2008
HE-01205-07

Minnesota Unique Well No.
203334

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 04/20/2007
Received Date

Well Name

Township Range Dir Section Subsections Elevation — 840 ft.
119 21 W 36 DCBCBB Elevation Method — 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
111 ft.	111 ft.	12/29/1955

Drilling Method Jetted

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
2 in. to ft.	lbs./ft.	

Well Address
6224 CADMEN AV N
BROOKLYN CENTER MN 55430

Open Hole from ft. to ft

Screen NO Make Type

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
SAND			0	38
CLAY	BROWN		38	81
SAND GRAVEL			81	100
SANDSTONE			100	111

Static Water Level
29 ft from Land surface Date Measured 12/29/1955

PUMPING LEVEL (below land surface)
29 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)

REMARKS
DRILLED BY C. WUNDERLICH.

Grouting Information Well Grouted? ☑ Yes ☑ No

Grout Material: Well grouted, type unknown — from to 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: 477275 Y: 4990588

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 St Peter
Last Strat St.Peter
Aquifer St.Peter
Depth to Bedrock 100 ft.

County Well Index Online Report — 203334 — Printed 9/2/2008
HE-01205-07

Minnesota Unique Well No.
203335

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 04/20/2007
Received Date

Well Name STARK, DON
Township Range Dir Section Subsections Elevation 841 ft.
119 21 W 36 DCBCCB Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
114 ft.	114 ft.	05/08/1956

Drilling Method Jetted

Drilling Fluid --

Well Hydrofractured? ☑ Yes ☑ No
From Ft. to Ft.

Use Domestic

Casing Type Galvanized Joint No Information Drive Shoe? ☑ Yes ☑ No Above/Below ft.

Casing Diameter	Weight	Hole Diameter
2 in. to ft.	lbs./ft.	

Well Address
6218 CAMDEN AV N
BROOKLYN CENTER MN 55430

Open Hole from ft. to ft

Screen NO Make Type

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
SAND			0	36
CLAY	BROWN		36	88
SAND & GRAVEL			88	91
SANDSTONE			91	114

Static Water Level
29 ft. from Land surface Date Measured 05/08/1956

PUMPING LEVEL (below land surface)
29 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)

REMARKS
DRILLED BY C. WUNDERLICH.

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: 477283 Y: 4990560

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 St.Peter
Last Strat St.Peter
Aquifer St.Peter
Depth to Bedrock 91 ft.

Minnesota Dept. of Natural Resources	MNDNR	
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report 203335 Printed 9/2/2008
HE-01205-07

Minnesota Unique Well No.
226206

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 04/20/2007
Received Date

Well Name

Township	Range	Dir	Section	Subsections	Elevation	
119	21	W	36	CDDBAA	Elevation Method	842 ft. 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
112 ft.	112 ft.	03/20/1961

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
3 in. to 108 ft.	lbs./ft.	

Well Address
800 62ND AV N
BROOKLYN CENTER MN 55430

Open Hole from ft. to ft.

Screen YES Make JOHNSON Type stainless steel

Diameter	Slot/Gauze	Length	Set Between
1.25	105	4	108 ft. and 112 ft.

Geological Material	Color	Hardness	From	To
SAND	RED		0	45
CLAY	BLUE		45	90
SAND	GRAY		90	105
SAND	GRAY		105	112

Static Water Level
40 ft. from Land surface Date Measured 03/20/1961

PUMPING LEVEL (below land surface)
40 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: 477155 Y: 4990460

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	TWEED, 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 | 226206 | Printed 9/2/2008
HE-01205-07

- **Cannon Falls**

SITE SUMMARY

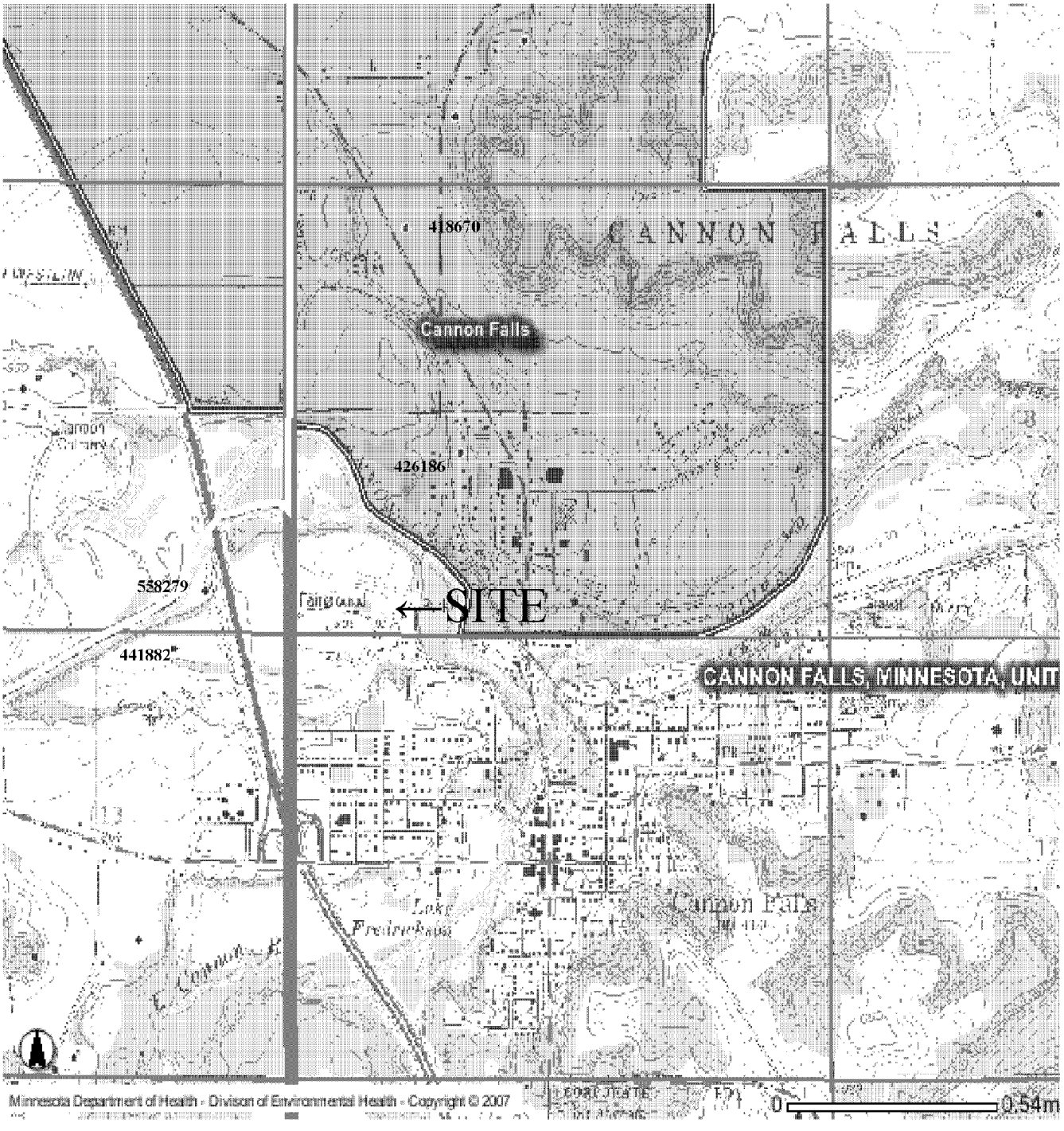
Site Name: Cannon Falls

Fire Department: Cannon Falls Fire Department
320 West Hoffman
Cannon Falls, MN 55009

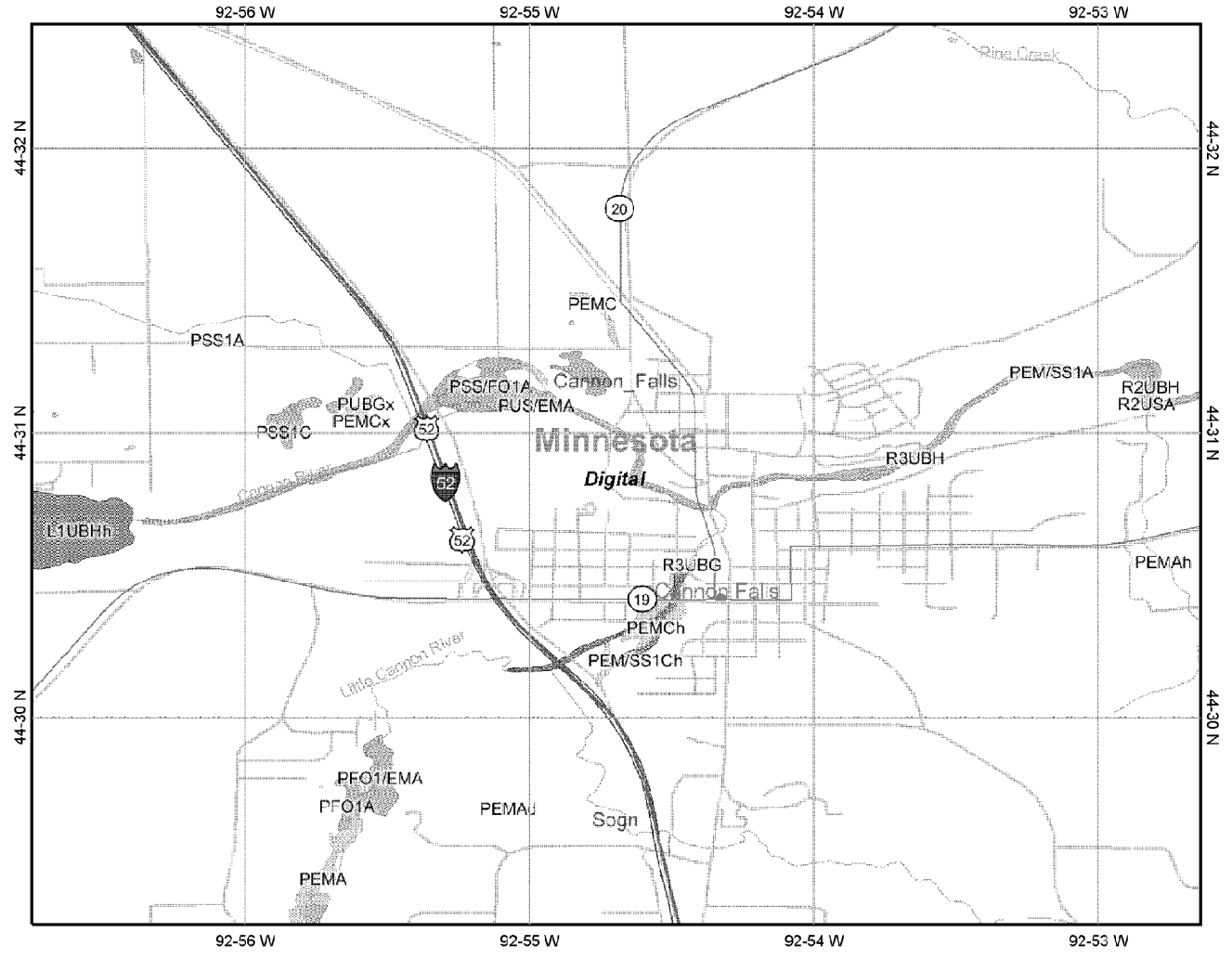
Site Contact: John Miller, Fire Chief
507-291-0643
cannonfallsfd@hotmail.com

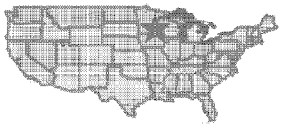
Training Location:	Cannon Valley Fairgrounds, Cannon Falls
Training Location Coordinates (X,Y):	506774.4, 4929013.29
Type of foam used in training:	Class B AFFF: Angus Class A: Angus
Foam training frequency:	Annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Ground
Annual foam use:	Class B AFFF: less than 5 gallons Class A: less than 5 gallons
Nearest surface water:	Cannon River located less than 1/4 mile east
Nearest wetland:	Approximately 1/4 mile north
Karst Area:	Training site located in an active karst area
Nearest water well:	1/4 mile to 1/2 mile north-northeast
Nearest Wellhead Protection Area:	Less than 1/4 mile east
Nearest Source Water Assessment Area:	Less than 1/2 mile
SITE RANKING:	**18**

CANNON FALLS CWI Well Map



Cannon Falls 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: 1:41,080

Map center: 44° 30' 51" N, 92° 54' 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.

2233.0381

STATE_02827193

Cannon Falls *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 T&D Facilities
- RCRA Investigation & Cleanup
- State Assessment

Minnesota Unique Well No.
418670

County Goodhue
Quad Cannon Falls
Quad ID 87C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 10/30/1990
Update Date 11/22/1994
Received Date

Well Name CEMSTONE READY MIX PLANT
Township Range Dir Section Subsections Elevation 855 ft.
112 17 W 7 BABCDB Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
340 ft.	340 ft.	06/14/1985

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 Welded Drive Shoe? ☑ Yes ☑ No Above/Below 0 ft.

Casing Diameter	Weight	Hole Diameter
8 in. to 15 ft.	lbs./ft.	12 in. to 15 ft.
4 in. to 300 ft.	lbs./ft.	8 in. to 300 ft.

Open Hole from 300 ft. to 340 ft.

Screen NO Make Type

Diameter	Slot/Gauze	Length	Set Between

Well Address
CANNON FALLS MN 55009

Geological Material	Color	Hardness	From	To
SAND	BROWN	MEDIUM	0	15
LIME	YELLOW	HARD	15	280
SANDROCK	WHITE	MEDIUM	280	340

Static Water Level
25 ft from Land surface Date Measured 06/14/1985

PUMPING LEVEL (below land surface)
30 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
FORMERLY WELCC CEMENT.

Grouting Information Well Grouted? ☑ Yes ☑ No

Grout Material: Neat Cement from 0 to 300 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: 506905 Y: 4930462

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 07/16/1985
Manufacturer's name GRUNDFOS Model number SP-2-18 HP 1 Volts 230
Length of drop Pipe 42 ft. Capacity 12 g.p.m Type Centrifugal 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 Prairie Du Chien Group
Last Strat Jordan
Aquifer Jordan
Depth to Bedrock 15 ft.

Well Contractor Certification

Kimmes-Bauer	19521	ANDERSON, L.
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report | 418670 | Printed 9/2/2008 HE-01205-07

Minnesota Unique Well No.
426186

County Goodhue
Quad Cannon Falls
Quad ID 87C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/05/1989
Update Date 11/22/1994
Received Date

Well Name CROWE, RYNE
Township Range Dir Section Subsections Elevation 809 ft.
112 17 W 7 CAACAD Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
95 ft.	95 ft.	11/03/1986

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 No Information Drive Shoe? ☑ Yes ☑ No Above/Below 0 ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 78 ft.	lbs./ft.	4 in. to 95 ft.

Open Hole from 78 ft. to 95 ft.

Screen NO Make Type

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
SAND			0	20
CLAY			20	32
GRAVEL			32	78
ROCK			78	95

Static Water Level
6 ft. from Land surface Date Measured 11/03/1986

PUMPING LEVEL (below land surface)
0 ft. after 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
ST. CLAIRES TERRA HAUTE ADD. BLK 8.

Grouting Information Well Grouted? ☑ Yes ☑ No

Grout Material: Neat Cement from 0 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: 507130 Y: 4929651

Nearest Known Source of Contamination
__feet __direction __type
Well disinfected upon completion? ☑ Yes ☑ No

Pump ☑ Not Installed Date Installed 11/05/1986
Manufacturer's name DEMMING Model number __ HP 0 Volts
Length of drop Pipe 42 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

Torgerson Well Co	27056	OTTEN, D.
License Business Name	Lic. Or Reg. No.	Name of Driller

First Bedrock Prairie Du Chien Group
Last Strat Prairie Du Chien Group
Aquifer Prairie Du Chien Group
Depth to Bedrock 78 ft.

County Well Index Online Report | 426186 | Printed 9/2/2008 HE-01205-07

Minnesota Unique Well No.
441882

County Goodhue
Quad Cannon Falls
Quad ID 87C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/14/1990
Update Date 11/23/1994
Received Date

Well Name LINDEMAN, DEAN
Township Range Dir Section Subsections Elevation
112 18 W 13 ABAABC Elevation Method 812 ft.
7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
340 ft.	340 ft.	08/18/1988

Drilling Method Non-specified Rotary

Drilling Fluid Foam

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 7 ft.	lbs./ft.	12 in. to 7 ft.
4 in. to 324 ft.	lbs./ft.	8 in. to 324 ft.

Open Hole from 324 ft. to 340 ft.

Screen NO Make Type

Diameter	Slot/Gauze	Length	Set Between

Well Address
RR 4
CANNON FALLS MN 55009

Geological Material	Color	Hardness	From	To
CLAY	YELLOW	SOFT	0	7
LIME	YELLOW	MEDIUM	7	120
LIME	YELLOW	HARD	120	140
LIME	YELLOW	HARD	140	200
SANDROCK	BROWN	SOFT	200	220
LIME	BLUE	HARD	220	280
SANDROCK	BLUE	HARD	280	310
SANDROCK	BLUE	MEDIUM	310	340

Static Water Level
0 ft from Land surface Date Measured 08/18/1988

PUMPING LEVEL (below land surface)
100 ft. after hrs. pumping 40 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)

REMARKS
STATIC WATER LEVEL DOES NOT AGREE WITH DROP PIPE LENGTH

Grouting Information Well Grouted? ☑ Yes ☑ No

Grout Material: Neat Cement from 0 to 324 ft. 10 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: 505953 Y: 4928948

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 09/20/1988
Manufacturer's name GRUNDFOS Model number SP-2-12 HP 0.5 Volts 230
Length of drop Pipe 48 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

License Business Name	Lic. Or Reg. No.	Name of Driller
Kimmes-Bauer	19521	ANDERSON, L.

First Bedrock Prairie Du Chien Group
Last Strat Jordan
Aquifer Jordan
Depth to Bedrock 7 ft.

County Well Index Online Report | 441882 | Printed 9/2/2008 HE-01205-07

Minnesota Unique Well No.
558279

County Goodhue
Quad Cannon Falls
Quad ID 87C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 11/21/1995
Update Date 01/20/1996
Received Date

Well Name SANDSTROM, ANDY
Township Range Dir Section Subsections Elevation
112 18 W 12 DDCBDB Elevation Method 799 ft. 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
300 ft.	300 ft.	08/14/1995

Drilling Method Non-specified Rotary

Drilling Fluid Foam

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
4 in. to 286 ft.	lbs./ft.	12 in. to 15 ft.
		8 in. to 286 ft.

Well Address
30127 59THAVE. WA
CANNON FALLS MN 55009

Open Hole from 286 ft. to 300 ft.

Screen NO Make Type

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
SOIL	BLACK	SOFT	0	1
COARSE GRAVEL	BROWN	MEDIUM	1	15
LIMESTONE	BROWN	HARD	15	200
LIMESTONE	GRAY	HARD	200	240
SANDSTONE	LT. GRY	SOFT	240	300

Static Water Level
-20 ft from Land surface Date Measured 07/12/1995

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)

REMARKS
WELL FLOWS.

Grouting Information Well Grouted? ☑ Yes ☑ No

Grout Material: Neat Cement from 0 to 286 ft. 5 yrds.

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: 506082 Y: 4929157

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 07/12/1995
Manufacturer's name JACUZZI Model number 1S4257B HP 1 Volts 230
Length of drop Pipe 63 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

First Bedrock Prairie Du Chien Group
Last Strat Jordan
Aquifer Jordan
Depth to Bedrock 15 ft.

Well Contractor Certification

Carlson Well Drill	19649	STATE, M.
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report | 558279 | Printed 9/2/2008 HE-01205-07

- **Clearbrook**

SITE SUMMARY

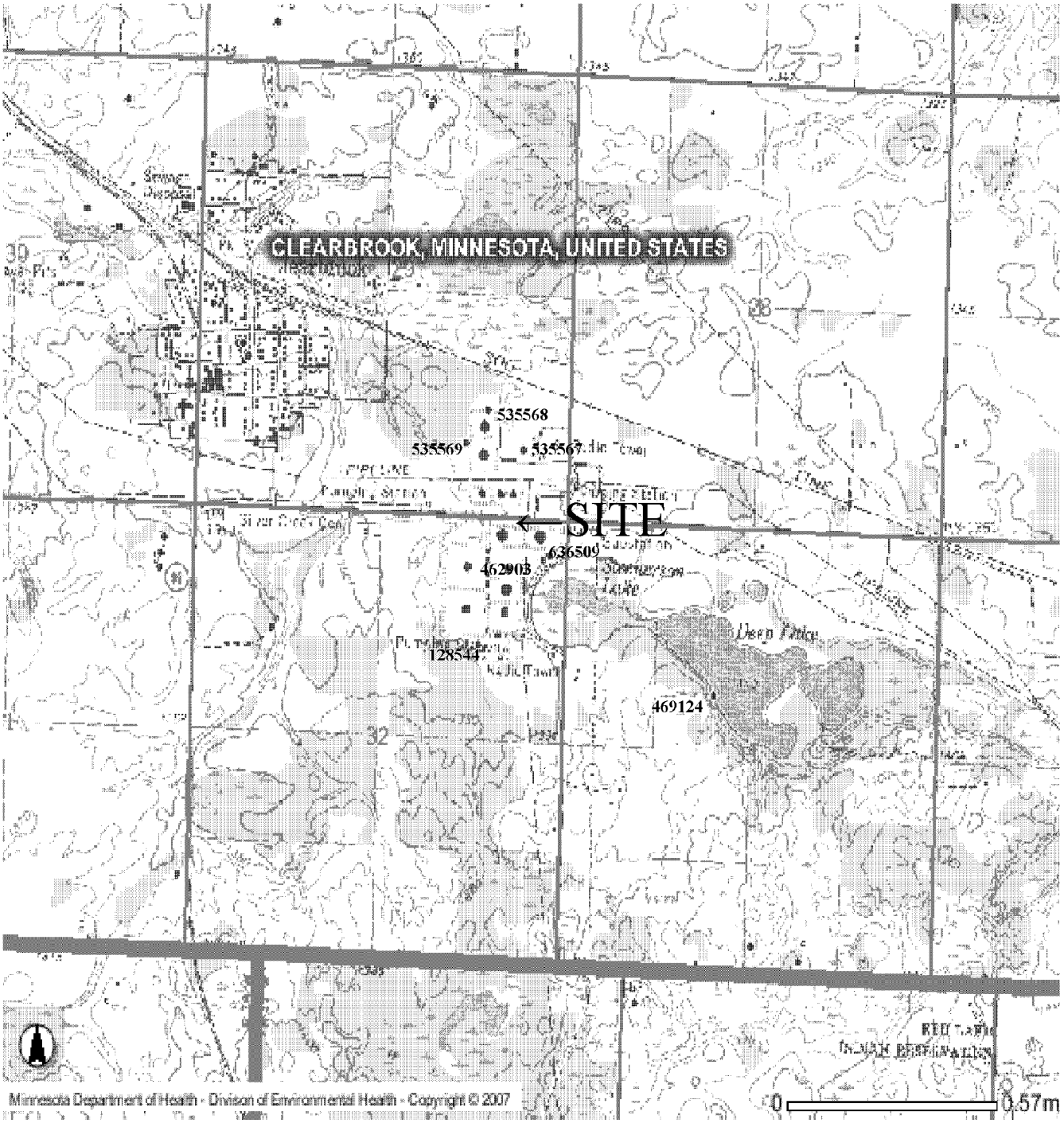
Site Name: Clearbrook

Fire Department: Clearbrook Fire Department
PO Box 306
Clearbrook, MN 56634

Site Contact: Jeff Basinger, Fire Chief
218-776-3144

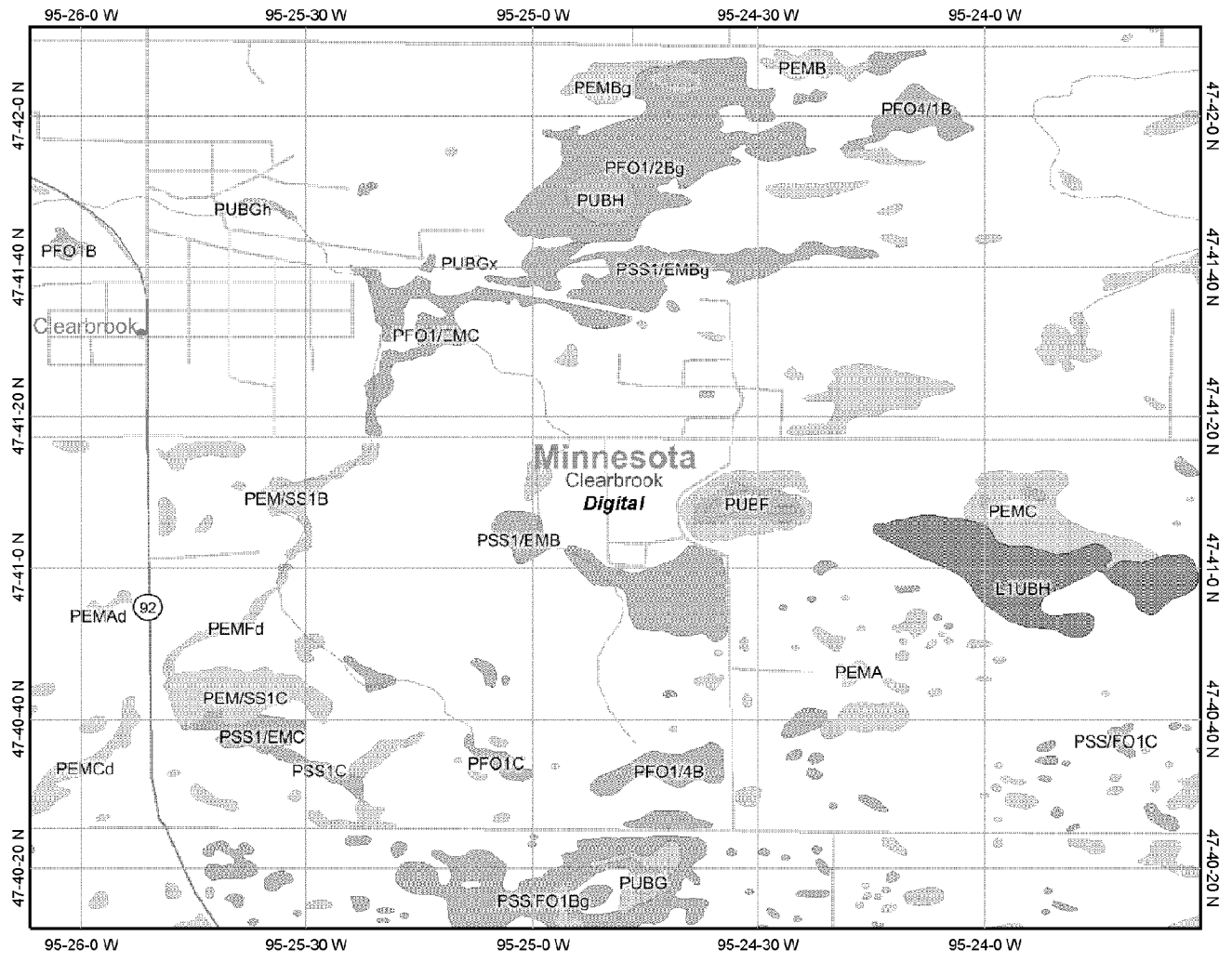
Training Location:	Tank farm at south end of town. Train with Class B foam at tank farm, spent foam is caught on top of the floating lids on the tanks. The foam brands are not known by Fire Chief.
Training Location Coordinates (X,Y):	318971.12, 5284443.38
Type of foam used in training:	AFFF: brand unknown, 3M brand assumed for ranking Class A: brand unknown
Foam training frequency:	Annually
Foam use per training event:	5 to 10 gallons
Spent foam destination:	Spent foam caught on top of tanks by floating lids
Annual foam use:	AFFF: less than 10 gallons Class A: less than 10 gallons
Nearest surface water:	Less than 1/8 mile southeast
Nearest wetland:	Less than 1/8 mile south and southeast
Karst Area:	Site is not located in a karst area
Nearest water well:	Less than 1/8 mile
Nearest Wellhead Protection Area:	More than 1 mile
Nearest Source Water Assessment Area:	Less than 1 mile
SITE RANKING:	**23**

CLEARBROOK CWI Well Map

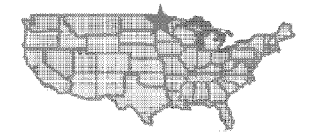


STATE_02827201

Clearbrook Wetland Map



Map center: 47° 41' 12" N, 95° 24' 49" 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

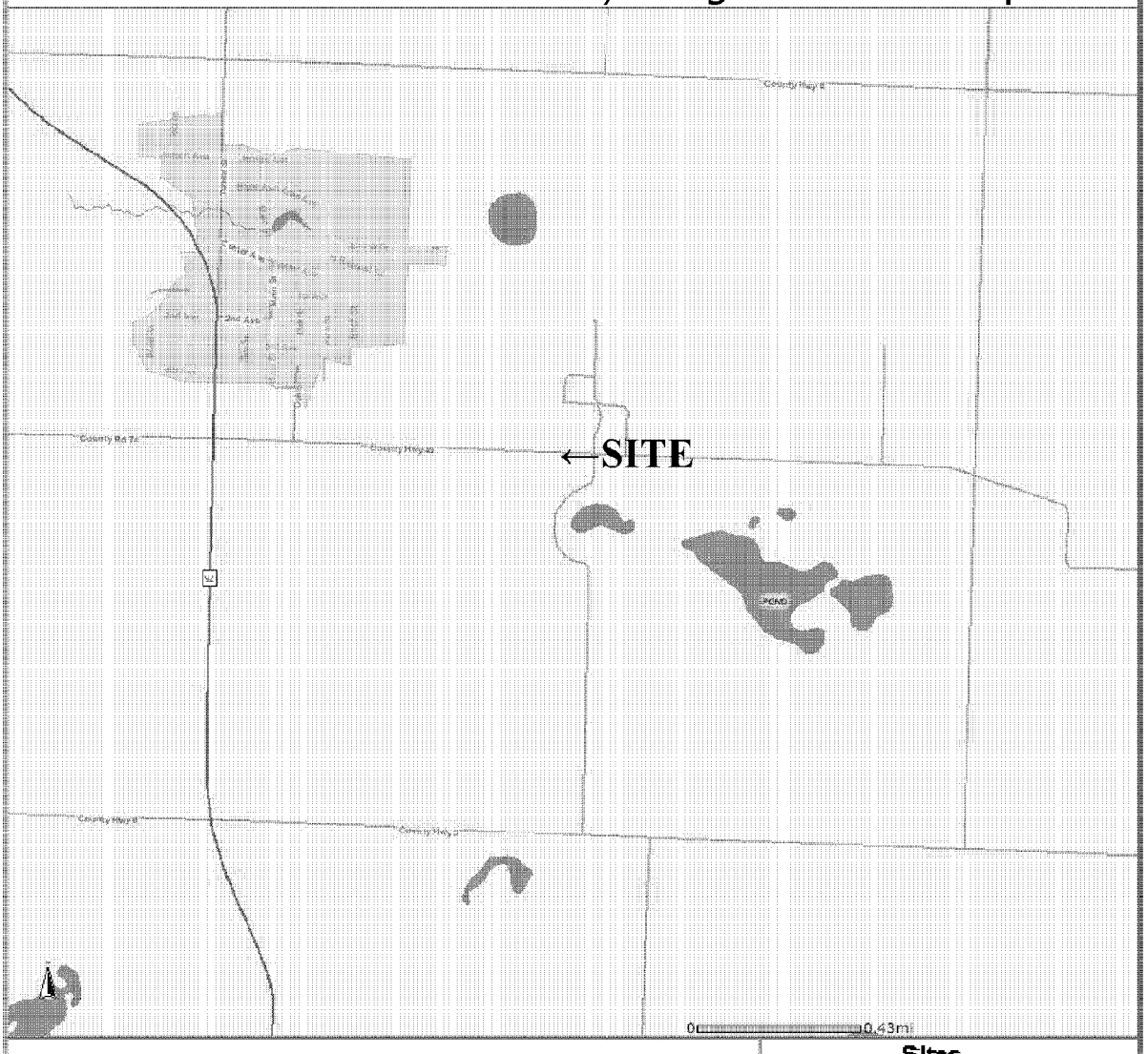
Scale: 1:25,908

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.

2233.0390

STATE_02827202

Clearbrook *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

Minnesota Unique Well No.
128544

County Clearwater
Quad Clearbrook
Quad ID 331B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/07/1988
Update Date 01/06/2005
Received Date

Well Name MINNESOTA PIPELINE
Township Range Dir Section Subsections Elevation
149 37 W 29 CDB
Elevation 1342 ft.
Elevation Method Calc from DEM (USGS 7.5 m n or equiv.)

Well Depth	Depth Completed	Date Well Completed
51 ft.	51 ft.	07/21/1979

Drilling Method Jetted

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
3 in. to 42 ft.	7.7 lbs./ft.	

Open Hole from ft. to ft

Screen YES Make JOHNSON Type stainless steel

Diameter	Slot/Gauze	Length	Set Between
2		4	47 ft. and 51 ft.

Geological Material	Color	Hardness	From	To
CLAY	RED	SOFT	0	36
CLAY	GRAY	SOFT	36	47
SAND & GRAVEL	BROWN	HARD	47	51

Static Water Level
31 ft. from Land surface Date Measured 07/2 /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
VILLAGE OF CLEARBROOK
SLOT/GAUZE 10/60

Grouting Information Well Grouted? ☑ Yes ☑ No

Located Clearwater Cty. Soil & Water Cons. Dist.
Method GPS SA On (averaged)
Unique Number Verification N/A
Date N/A
System UTM - Nad83, Zone15, Meters
X: 318812 Y: 5283998

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

Holm's Well Co.	15398	HOLM, D
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report 128544 Printed 9/12/2008
HE-01205-07

Minnesota Unique Well No.
462903

County Clearwater
Quad Clearbrook
Quad ID 331B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/13/1991
Update Date 03/11/2005
Received Date

Well Name MN PIPELINE COMPANY
Township Range Dir Section Subsections Elevation
149 37 W 29
Elevation Method: Calc from DEM (USGS 7.5 m n or equiv.)
1350 ft.

Well Depth	Depth Completed	Date Well Completed
75 ft.	60 ft.	08/08/1990

Drilling Method Cable Tool

Drilling Fluid Water

Well Hydrofractured? ☑ Yes ☑ No
From Ft. to Ft.

Use Industrial

Casing Type Plastic Joint Welded Drive Shoe? ☑ Yes ☑ No Above/Below ft.

Casing Diameter	Weight	Hole Diameter
14 in. to 38 ft.	54.6 lbs./ft.	
8 in. to 48 ft.	49.6 lbs./ft.	

Open Hole from ft. to ft

Screen YES Make JOHNSON Type stainless steel

Diameter	Slot/Gauze	Length	Set Between
7.5	30	15	45 ft. and 60 ft.

Geological Material	Color	Hardness	From	To
CLAY	GRAY		0	22
CLAY	GRAY		22	26
CLAY	GRAY		26	45
GRAVEL	GRAY		45	55
GRAVEL/COBBLES	GRAY		55	58
SAND	GRAY		58	63
SILTY SAND	BROWN		63	75
SILTY SAND/CLAY	BROWN		75	

Static Water Level
15 ft. from Land surface Date Measured 08/0 /1990

PUMPING LEVEL (below land surface)
18 ft. after 60 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
HEIGHT ABOVE/BELOW: 14"-2, 3-8"
WORK PERFORMED UNDER ENGINEERING OF E.HICKOK OF J.MONTGOMERY.

Grouting Information Well Grouted? ☑ Yes ☑ No

Grout Material: Neat Cement from 0 to 43 ft. 25 bags

Located Clearwater Cty. Soil & Water Cons. Dist.
Method GPS SA On (averaged)
Unique Number Verification N/A
Date N/A
System UTM - Nad83, Zone15, Meters
X: 319094 Y: 5284301

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

Renner E H Well	71015	COX, A
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report 462903 Printed 9/12/2008
HE-01205-07

Minnesota Unique Well No.
469124

County Clearwater
Quad Clearbrook
Quad ID 331B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/29/1991
Update Date 12/20/2007
Received Date

Well Name MAEN, RICHARD
Township Range Dir Section Subsections Elevation
149 37 W 34
Elevation Method 1346 ft. Calc from DEM (USGS 7.5 mn or equiv.)

Well Depth	Depth Completed	Date Well Completed
200 ft.	197 ft.	06/05/1991

Drilling Method Non-specified Rotary

Drilling Fluid Revert

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 188 ft.	lbs./ft.	7 in. to 200 ft.

Open Hole from ft. to ft

Screen YES Make COOK Type stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	12	9	188 ft. and 197 ft.

Geological Material	Color	Hardness	From	To
CLAY	BROWN	MEDIUM	0	17
CLAY & GRAVEL	BROWN	MEDIUM	17	44
CLAY	BLUE	MEDIUM	44	56
ROCK	GRAY	V.HARD	56	57
CLAY	BROWN	MEDIUM	57	66
SAND & CLAY	BROWN	MEDIUM	66	175
FINE SAND	RED	MEDIUM	175	180
SAND	BROWN	MEDIUM	180	197
SAND	RED	MEDIUM	197	200

Static Water Level
75 ft. from Land surface Date Measured 06/05/1991

PUMPING LEVEL (below land surface)
ft. after hrs. pumping 60 g.p.m.

Well Head Completion
Pitless adapter manufacturer MAASS Model JC4
☑ Casing Protection Y ☑ 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 10 ft.
Grout Material: Neat Cement from 10 to 30 ft.
Grout Material: Bentonite from 30 to ft.

Located Clearwater Cty. Soil & Water Cons. Dist.
Unique Number Verification N/A
System UTM - Nad83, Zone15, Meters
Method GPS SA On (averaged)
Date N/A
X: 319833 Y: 5283813

Nearest Known Source of Contamination
65 feet E direction Barnyard type
Well disinfected upon completion? ☑ Yes ☑ No

Pump ☑ Not Installed Date Installed 06/07/1991
Manufacturer's name AERMOTOR Model number AB1250 HP 0.5 Volts 230
Length of drop Pipe 100 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 Unknown deposit type
Aquifer
Depth to Bedrock ft

Well Contractor Certification

Holm's Well Co.	15398	HOLM, D
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report 469124 Printed 9/12/2008
HE-01205-07

Minnesota Unique Well No.
535567

County Clearwater
Quad
Quad ID 331b

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 06/23/1994
Update Date 07/13/2007
Received Date

Well Name MW-2
Township Range Dir Section Subsections Elevation 1343 ft.
149 37 W 29 Elevation Method Calc from DEM (USGS 7.5 m n or equiv.)

Well Depth	Depth Completed	Date Well Completed
14 ft.	13.3 ft.	09/08/1993

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 3.3 ft.	0.69 lbs./ft.	8.25 in. to 13.5 ft.

Well Address

CLEARBROOK MN 56634

Geological Material	Color	Hardness	From	To
CLAY	OLV/BRN	HARD	0	8
CLAY	GRAY		8	12
CLAY	BROWN		12	14

Open Hole from ft. to ft

Screen YES Make JOHNSON Type plastic

Diameter	Slot/Gauze	Length	Set Between
2	10	10	3.3 ft. and 13.3 ft.

Static Water Level
12.2 ft. from Land surface Date Measured 09/09/1993

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-2, 93364

Located Clearwater Cty. Soil & Water Cons. Dist. Method GPS SA On (averaged)
Unique Number Verification Tag on well Date N/A
System UTM - Nad83, Zone15, Meters X: 319007 Y: 5284702

Grouting Information Well Grouted? ☑ Yes ☑ No

Grout Material: Bentonite from 1.8 to 2.8 ft.
Grout Material: CONCRETE from to 1.8 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
Bay West License Business Name M0120 Lic. Or Reg. No. Name of Driller

First Bedrock
Last Strat
Aquifer
Depth to Bedrock ft

County Well Index Online Report 535567 Printed 9/12/2008
HE-01205-07

Minnesota Unique Well No.
535568

County Clearwater
Quad Clearbrook
Quad ID 331B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 06/23/1994
Update Date 07/13/2007
Received Date

Well Name MW-3
Township Range Dir Section Subsections Elevation
149 37 W 29
Elevation Method 1339 ft. Calc from DEM (USGS 7.5 m n or equiv.)

Well Depth	Depth Completed	Date Well Completed
13.25 ft.	13 ft.	09/08/1993

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.	0.69 lbs./ft.	8.25 in. to 13.2 ft.

Well Address

CLEARBROOK MN

Geological Material	Color	Hardness	From	To
CLAY	OLV/BRN		0	8
CLAY	GRAY		8	12
CLAY	DK. GRY		12	13

Open Hole from ft. to ft

Screen YES Make JOHNSON Type plastic

Diameter	Slot/Gauze	Length	Set Between
2	10	10	3 ft. and 13 ft.

Static Water Level
1 ft. from Land surface Date Measured 09/09/1993

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, 93364

Located Clearwater Cty. Soil & Water Cons. Dist.
Unique Number Verification Other, note in remarks
System UTM - Nad83, Zone15, Meters
Method GPS SA On (averaged)
Date N/A
X: 318856 Y: 5284846

Grouting Information Well Grouted? ☑ Yes ☑ No

Grout Material: Bentonite from 1.5 to 2.5 ft.
Grout Material: CONCRETE from to 1.5 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
Bay West — License Business Name
M0120 — Lic. Or Reg. No.
Name of Driller

First Bedrock
Last Strat
Aquifer
Depth to Bedrock ft

County Well Index Online Report | 535568 | Printed 9/12/2008
HE-01205-07

Minnesota Unique Well No.
535569

County Clearwater
Quad Clearbrook
Quad ID 331B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 06/23/1994
Update Date 07/13/2007
Received Date

Well Name MW-4
Township Range Dir Section Subsections Elevation
149 37 W 29
Elevation Method 1337 ft. Calc from DEM (USGS 7.5 m n or equiv.)

Well Depth	Depth Completed	Date Well Completed
13.25 ft.	13 ft.	09/08/1993

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 13.2 ft.

Open Hole from ft. to ft

Screen YES Make JOHNSON Type plastic

Diameter	Slot/Gauze	Length	Set Between
2	10	10	3 ft. and 13 ft.

Well Address

CLEARBROOK MN

Geological Material	Color	Hardness	From	To
SILTY CLAY	RED	SOFT	0	4
CLAY	GRAY		4	13

Static Water Level
2 ft. from Land surface Date Measured 09/09/1993

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-4, 93364

Grouting Information Well Grouted? ☑ Yes ☑ No

Grout Material: Bentonite from 1.5 to 2.5 ft.
Grout Material: CONCRETE from to 1.5 ft.

Located Clearwater Cty. Soil & Water Cons. Dist.
Method GPS SA On (averaged)
Unique Number Verification Tag on well
Date N/A
System UTM - Nad83, Zone15, Meters
X: 318760 Y: 5284729

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

Bay West	M0120	
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report 535569 Printed 9/12/2008
HE-01205-07

Minnesota Unique Well No.
636509

County Clearwater
Quad Clearbrook
Quad ID 331B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 02/14/2000
Update Date 03/11/2005
Received Date

Well Name MN PIPELINE CO.
Township Range Dir Section Subsections Elevation
149 37 W 32 AAA
Elevation Method 1350 ft. Calc from DEM (USGS 7.5 m n or equiv.)

Well Depth	Depth Completed	Date Well Completed
142 ft.	141 ft.	09/01/1999

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

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
12 in. to 111 ft.	lbs./ft.	18 in. to 142 ft.

Open Hole from ft. to ft.

Screen YES Make JOHNSON Type stainless steel

Diameter	Slot/Gauze	Length	Set Between
12	65	30	111 ft. and 141 ft.

Geological Material	Color	Hardness	From	To
CLAY	GRAY		0	44
SAND & GRAVEL	BROWN		44	55
CLAY	GRAY		55	57
SAND & GRAVEL	BROWN		57	61
SILTY SAND	BROWN		61	88
SAND & GRAVEL	BROWN		88	134
CLAY	GRAY		134	135
SAND	BROWN		135	142

Static Water Level
10 ft. from Land surface Date Measured 09/07/1999

PUMPING LEVEL (below land surface)
141 ft. after 6 hrs. pumping 250 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.	2 yrds.
Grout Material: Bentonite	from 30 to 40 ft.	30 bags

Located Clearwater Cty. Soil & Water Cons. Dist.
Unique Number Verification Tag on well
System UTM - Nad83, Zone15, Meters
Method GPS SA On (averaged)
Date N/A
X: 319121 Y: 5284319

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
Traut M.j. Well Co.	71536	

First Bedrock
Last Strat
Aquifer
Depth to Bedrock ft.

County Well Index Online Report | 636509 | Printed 9/12/2008 HE-01205-07

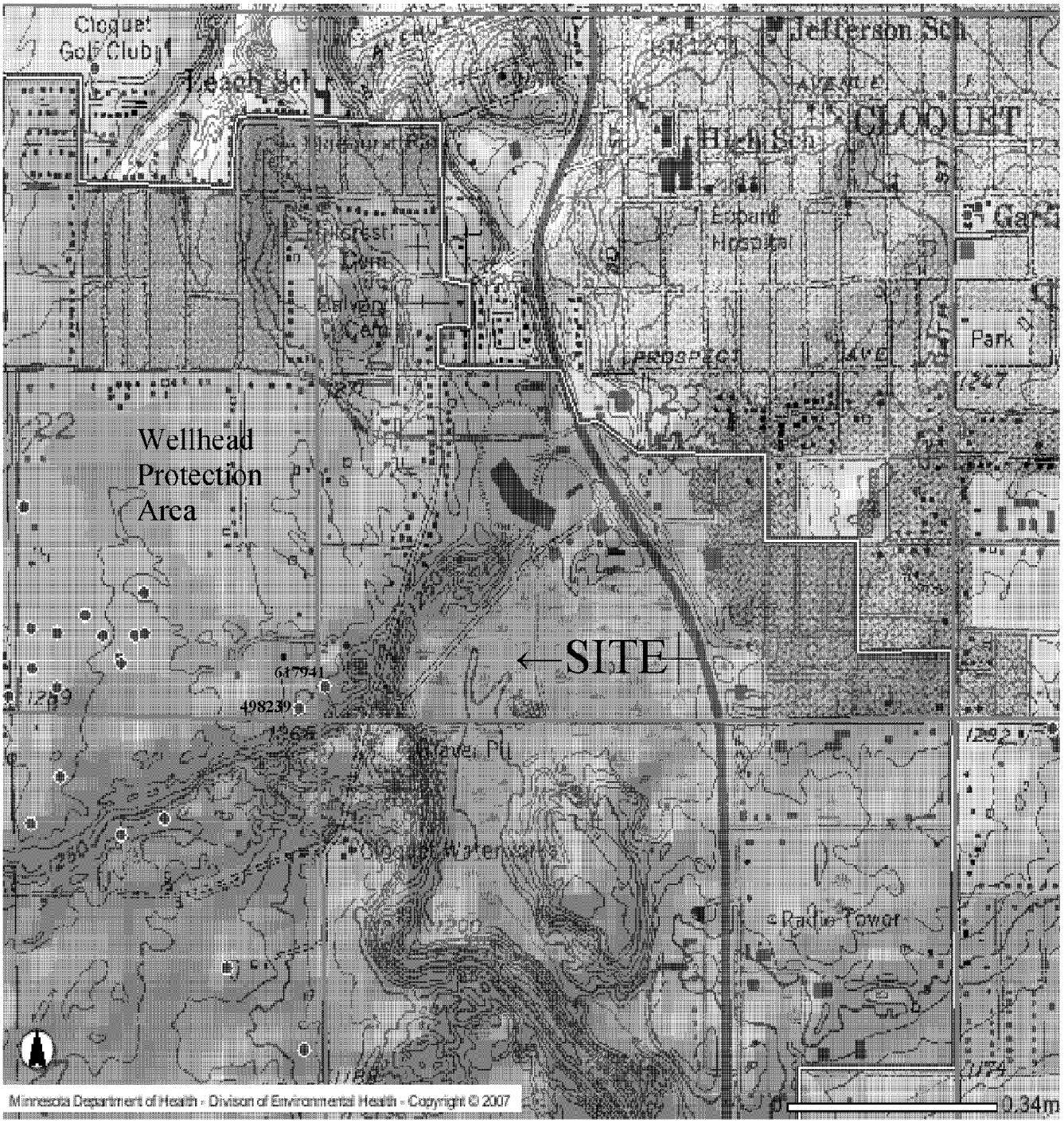
- **Cloquet**

SITE SUMMARY

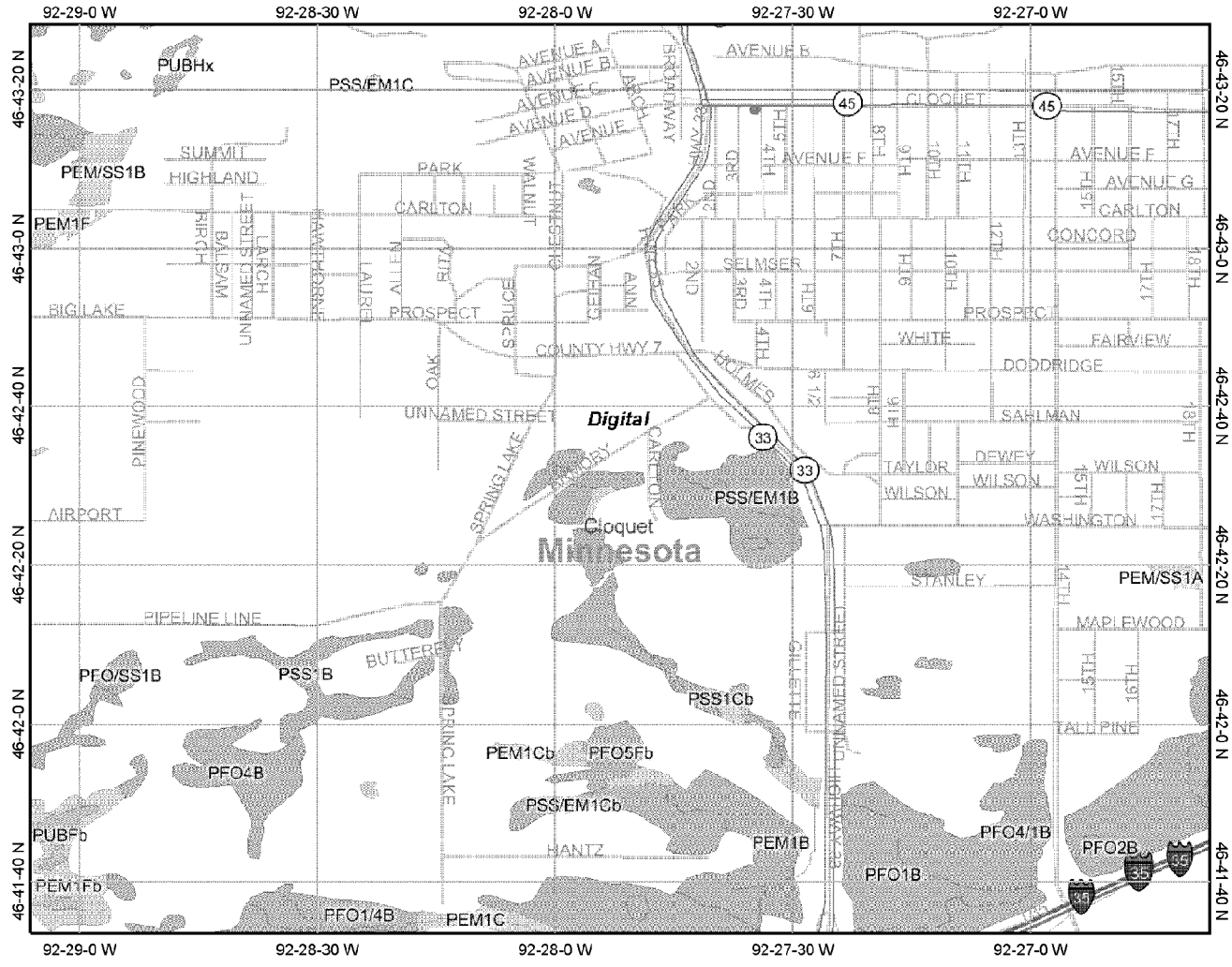
Site Name:	Cloquet
Fire Department:	Cloquet Fire Department 508 Cloquet Ave. Cloquet, MN 55720
Site Contact:	Jim Langenbrunner, Fire Chief 218-879-6514 james_langenbrunner@hotmail.com

Training Location:	Gravel pit next to city garage at 410 Armory Road, Cloquet
Training Location Coordinates (X,Y):	540964.06, 5172881.85
Type of foam used in training:	AR-AFFF: Angus Class A: Angus Other: Dawn dish soap
Foam training frequency:	Bi-Annually
Foam use per training event:	5 to 10 gallons
Spent foam destination:	Ground
Annual foam use:	AR-AFFF: less than 10 gallons Class A: Less than 10 gallons
Nearest surface water:	Unnamed stream approximately 1/2 mile south
Nearest wetland:	On or adjacent to site
Karst Area:	Site is not located in a karst area.
Nearest water well:	1/4 to 1/2 mile west
Nearest Wellhead Protection Area:	Site is located in a WPA
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**12**

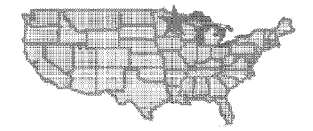
CLOQUET CWI Well Map



Cloquet Wetland Map



Map center: 46° 42' 31" N, 92° 27' 52" 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

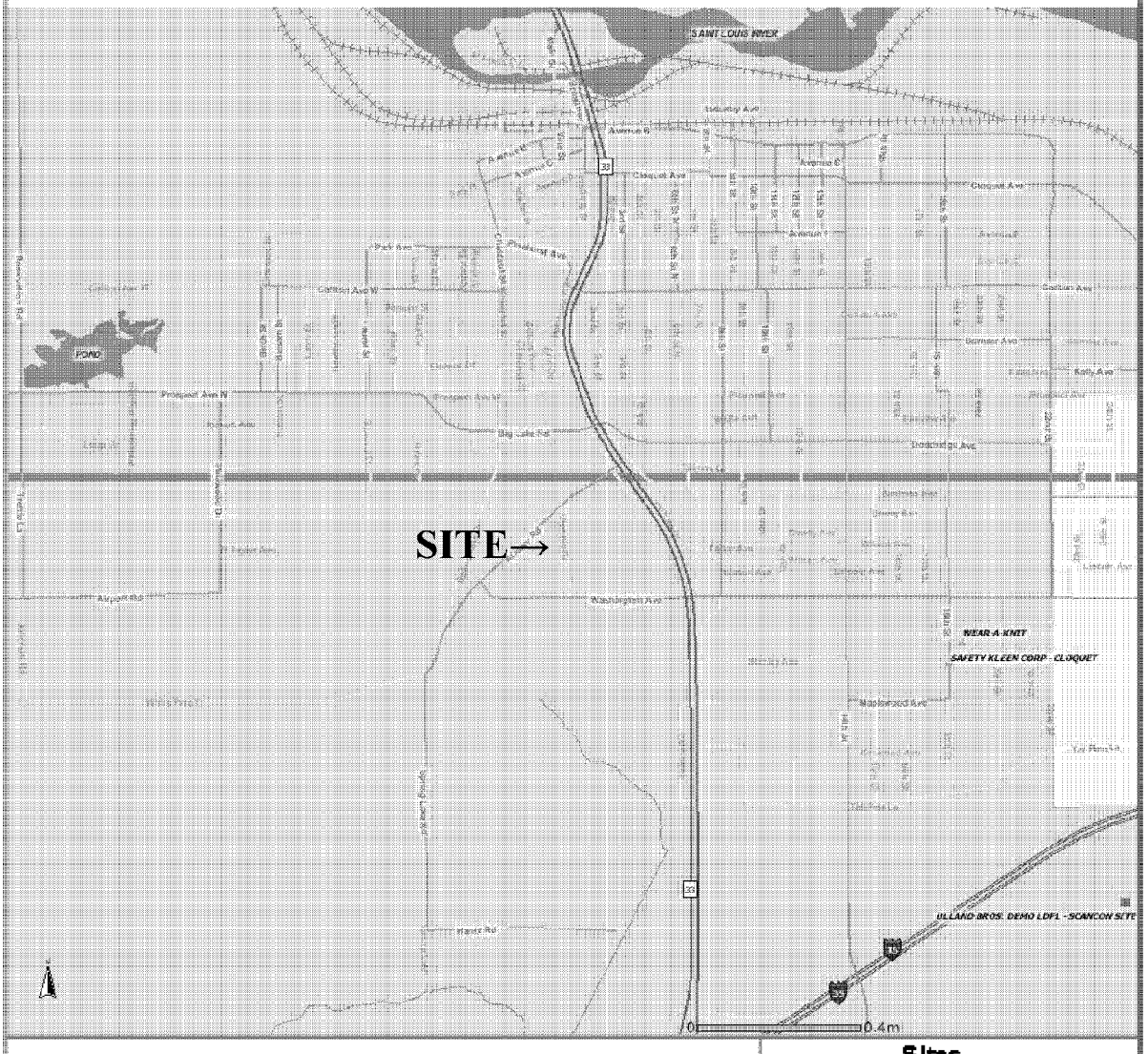
Scale: 1:24,788

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2233.0402

STATE_02827214

Cloquet *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_02827215

2233.0403

Minnesota Unique Well No.
498239

County Carlton
Quad Cloquet
Quad ID 224B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 01/27/1993
Update Date 05/30/2006
Received Date

Well Name REYNOLDS, JACK
Township Range Dir Section Subsections Elevation 1270 ft.
49 17 W 22 DDDDCA Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
122 ft.	122 ft.	03/27/1992

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 119 ft.	18.97 lbs./ft.	6 in. to 122 ft.

Open Hole from 119 ft. to 122 ft.

Screen NO Make Type

Diameter	Slot/Gauze	Length	Set Between

Well Address
1209 OAK ST S
CLOQUET MN 55720

Geological Material	Color	Hardness	From	To
COARSE GRAVEL	BROWN	HARD	0	22
SAND	RED	SOFT	22	25
SANDY GRAVEL	BROWN	HARD	25	37
FINE SAND	RED	SOFT	37	80
MEDIUM SAND	BROWN	SOFT	80	105
CLAY & ROCKS	RED	MEDIUM	105	115
SAND & FINE GRAVEL	BROWN	SOFT	115	119
SLATE ROCKS	GRAY	MEDIUM	119	122

Static Water Level
70 ft from Land surface Date Measured 03/27/1992

PUMPING LEVEL (below land surface)
119 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)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☑ No

Located Carlton Cty Soil & Water Cons. Dist.
Unique Number Verification N/A
System UTM - Nad83, Zone15, Meters

Method Digitization (Screen) - Map (1:24,000)
Date 08/27/2004
X: 540399 Y: 5172764

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
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 Thomson Formation
Last Strat Thomson Formation

Aquifer Thomson Formation
Depth to Bedrock 119 ft.

Well Contractor Certification

Sunnarborg Well Co.	09437	SUNNERBORG, C
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report | 498239 | Printed 9/19/2008 HE-01205-07

Minnesota Unique Well No.
617941

County Carlton
Quad Cloquet
Quad ID 224B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 01/10/2000
Update Date 05/30/2006
Received Date

Well Name MARTIN, STEVE
Township Range Dir Section Subsections Elevation 1281 ft.
49 17 W 23 CCCCBB Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
136 ft.	136 ft.	11/23/1998

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 136 ft.	18.97 lbs./ft.	6 in. to 136 ft.

Open Hole from 136 ft. to 136 ft.

Screen NO Make Type

Diameter	Slot/Gauze	Length	Set Between

Well Address
1210 OAK ST S
CLOQUET MN 55720

Geological Material	Color	Hardness	From	To
GRAVEL	BROWN	HARD	0	25
SAND	BROWN	SOFT	25	132
GRAVEL CLAY	BROWN	HARD	132	136

Static Water Level
65 ft from Land surface Date Measured 11/24/1998

PUMPING LEVEL (below land surface)
120 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
Unique Number Verification Tag on well
System UTM - Nad83, Zone15, Meters

Method Digitization (Screen) - Map (1:24,000)
Date 07/18/2005
X: 540467 Y: 5172814

Nearest Known Source of Contamination
50 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

License Business Name	Lic. Or Reg. No.	Name of Driller
Sunnarborg Well Co.	09437	SUNNARBORG, H

First Bedrock
Last Strat Pebbly sand/silt/clay-brown

Aquifer Quat. Water Table Aquifer
Depth to Bedrock ft.

County Well Index Online Report | 617941 | Printed 9/19/2008
HE-01205-07

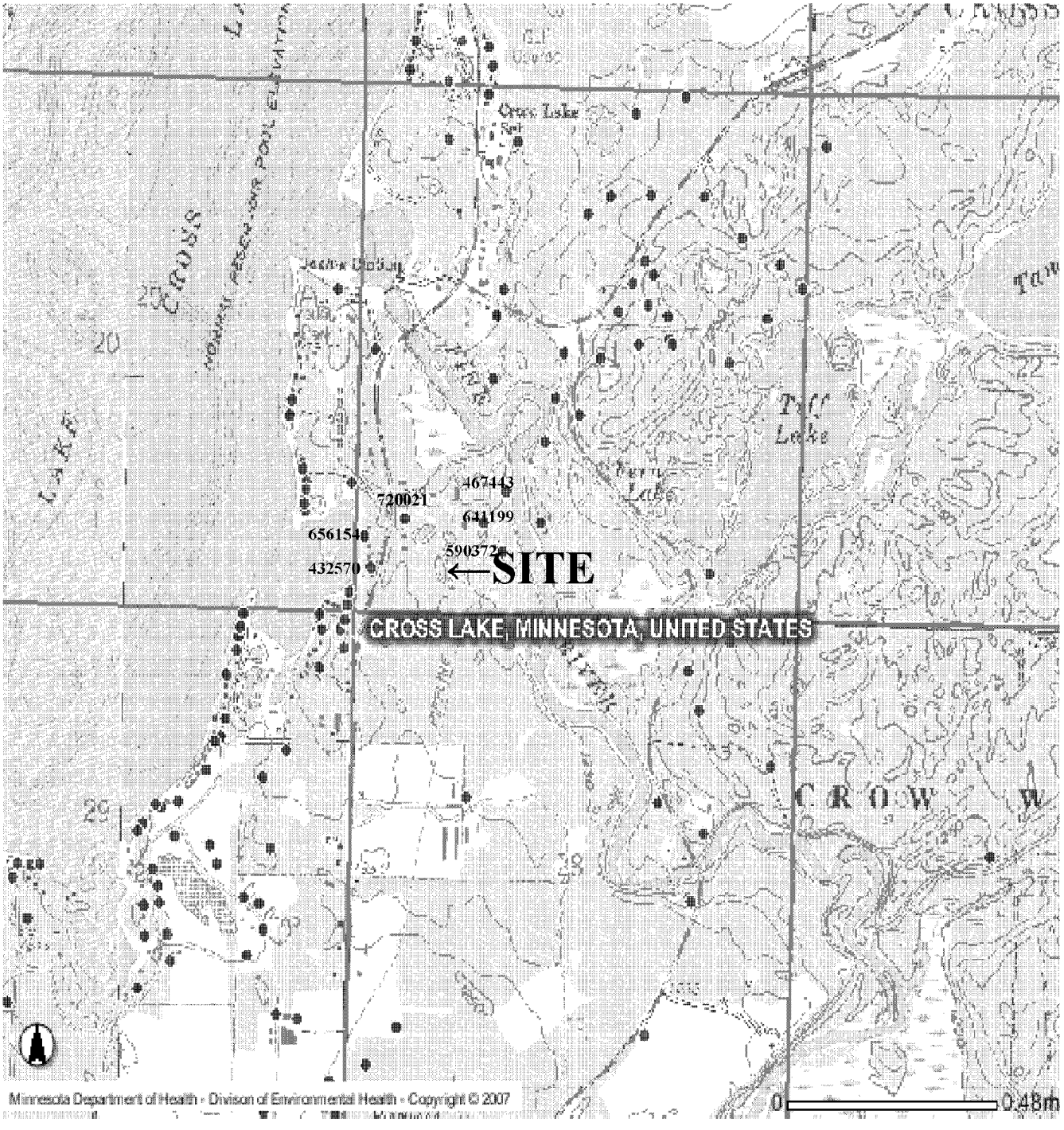
- **Crosslake**

SITE SUMMARY

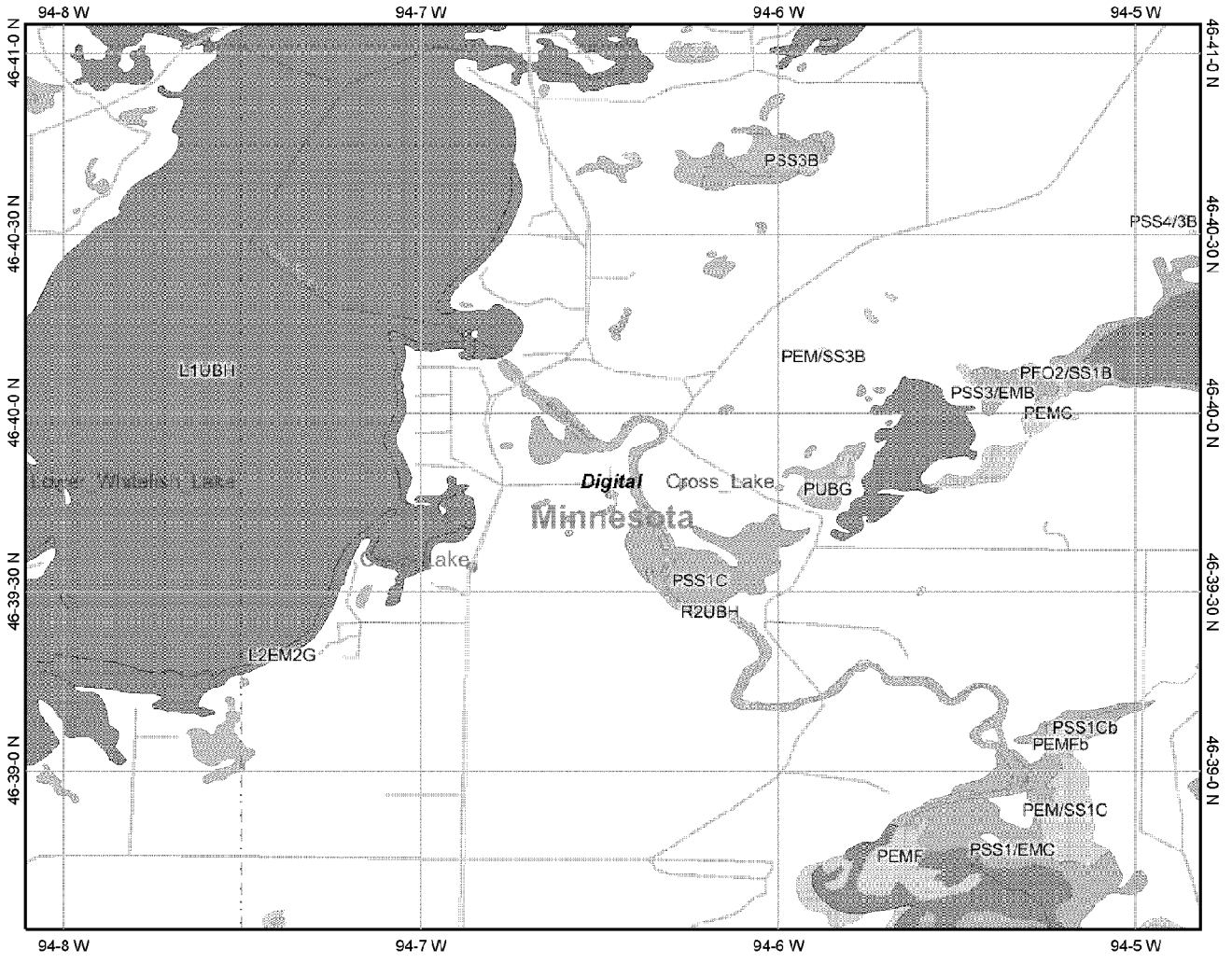
Site Name:	Crosslake
Fire Department:	Crosslake Fire Department 37028 County Road 66 Crosslake, MN 56442
Site Contact:	Keith W. Anderson, Fire Chief 218-692-3558 cfd@crossfire.net

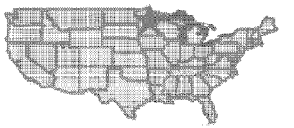
Training Location:	Joint city/county maintenance facility, 13870 Whipple
Training Location Coordinates (X,Y):	415012.46, 5168117.98
Type of foam used in training:	AR-AFFF: Not specified, use of 3M-brand foam assumed.
Foam training frequency:	Annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Sanitary Sewer
Annual foam use:	AR-AFFF: 10 gallons
Nearest surface water:	Cross Lake, less than 1/4 mile west and Pine River less than 1/4 mile east
Karst Area:	Site is not located in a karst area.
Nearest wetland:	On or adjacent to site
Nearest water well:	On or adjacent to site
Nearest Wellhead Protection Area:	More than 1 mile
Nearest Source Water Assessment Area:	Less than 1 mile
SITE RANKING:	**21**

CROSSLAKE CWI Well Map



Crosslake 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: 1:32,792

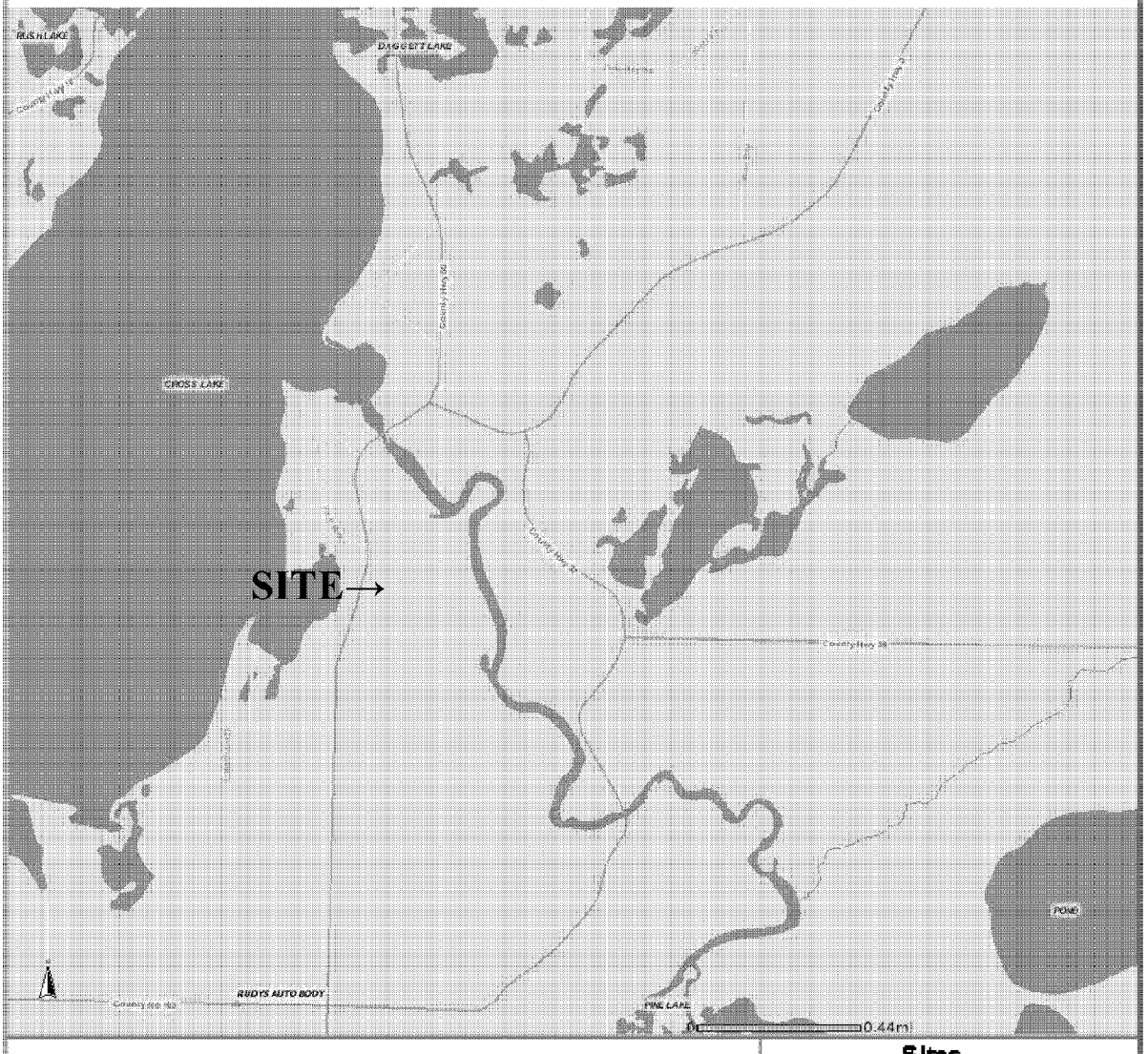
Map center: 46° 39' 49" N, 94° 6' 28" W

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2233.0409

STATE_02827221

Crosslake *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_02827222

2233.0410

Minnesota Unique Well No.
432570

County Crow Wing
Quad Cross Lake
Quad ID 231A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 02/18/1991
Update Date 01/23/2008
Received Date

Well Name CLEATH, JIM
Township Range Dir Section Subsections Elevation
137 27 W 21 CCCBDC Elevation Method 1241 ft. 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
54 ft.	54 ft.	08/21/1987

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 54 ft.	lbs./ft.	7.5 in. to 54 ft.

Open Hole from ft. to ft

Screen YES Make JOHNSON Type stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	15	8	50 ft. and 54 ft.

Geological Material	Color	Hardness	From	To
SAND	BROWN	MEDIUM	0	12
SAND	BLUE	SOFT	12	33
CLAY	BLUE	SOFT	33	47
SAND	LIGHT	SOFT	47	54

Static Water Level
18 ft. from Land surface Date Measured 08/2 /1987

PUMPING LEVEL (below land surface)
40 ft. after 1 hrs. pumping 8 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
BOWER'S ADD/ OUTLOT A PART OF LOT 5.

Grouting Information Well Grouted? ☑ Yes ☑ No

Grout Material: Neat Cement from 6 to 40 ft. 0.33 yrds.

Located
Unique Number Verification Information from owner
System UTM - Nad83, Zone15, Meters

Method GPS SA On (averaged)
Date N/A
X: 414809 Y: 5168153

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 08/21/1987
Manufacturer's name MEYERS Model number SJ11 HP 0.5 Volts 115
Length of drop Pipe 40 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

First Bedrock
Last Strat Sand
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft

Well Contractor Certification

Lambert Well Co.	18434	LAMBERT, V.
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report | 432570 | Printed 9/16/2008
HE-01205-07

Minnesota Unique Well No.
467443

County Crow Wing
Quad Cross Lake
Quad ID 231A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/16/1992
Update Date 02/13/2002
Received Date

Well Name RIVERWOOD PARTNERS
Township Range Dir Section Subsections Elevation
137 27 W 21 CDBABA Elevation Method 1231 ft. 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
80 ft.	80 ft.	08/23/1990

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 ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 72 ft.	lbs./ft.	8.5 in. to 80 ft.

Well Address
BOX 48
NISSWA MN 56468

Open Hole from ft. to ft

Screen YES Make JOHNSON Type stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	12	8	72 ft. and 80 ft.

Geological Material	Color	Hardness	From	To
SAND	BROWN	SOFT	0	32
SAND	GRAY	SOFT	32	44
CLAY	BLUE	SOFT	44	70
SAND	RED	SOFT	70	80

Static Water Level
6 ft. from Land surface Date Measured 08/23/1990

PUMPING LEVEL (below land surface)
35 ft. after 1 hrs. pumping 40 g.p.m.

Well Head Completion
Pitless adapter manufacturer WHITEWATER Model STEEL
☑ 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 6 to 40 ft. 0.33 yrds.

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 415301 Y 5168383

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 08/23/1990
Manufacturer's name MEYERS Model number SD75 HP 1.5 Volts 220
Length of drop Pipe 60 ft. Capacity 30 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 Artes. Aquifer
Depth to Bedrock ft

Well Contractor Certification

Lambert Well Co.	18434	LAMBERT, V
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report | 467443 | Printed 9/16/2008
HE-01205-07

Minnesota Unique Well No.
590372

County Crow Wing
Quad Cross Lake
Quad ID 231A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 02/07/1997
Update Date 02/13/2002
Received Date

Well Name SVEDVIK, ROY AND ANN
Township Range Dir Section Subsections Elevation
137 27 W 21 CDCABA Elevation Method 1225 ft. 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
86 ft.	86 ft.	11/06/1996

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 81 ft.	lbs./ft.	8 in. to 86 ft.

Open Hole from ft. to ft

Screen YES Make JOHNSON Type stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	12	5	81 ft. and 86 ft.

Well Address
HCR 3
CROSSLAKE MN 56442
35202 RIVERWOOD TR

Geological Material	Color	Hardness	From	To
SAND	BROWN	SOFT	0	34
CLAY	GRAY	MEDIUM	34	80
SAND	WHITE	SOFT	80	86

Static Water Level
-1 ft. from Land surface Date Measured 11/06/1996

PUMPING LEVEL (below land surface)
20 ft. after 1 hrs. pumping 85 g.p.m.

Well Head Completion
Pitless adapter manufacturer BAKER Model BOLT ON
☑ 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 80 ft. 18 bags

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 415287 Y 5168199

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 11/06/1996
Manufacturer's name MEYERS Model number SJ11 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

First Bedrock
Last Strat Sand-white
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft

Well Contractor Certification

Lambert Well Co.	18434	LAMBERT, V.
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report 590372 Printed 9/16/2008
HE-01205-07

Minnesota Unique Well No.
641199

County Crow Wing
Quad Cross Lake
Quad ID 231A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 07/06/2000
Update Date 03/11/2005
Received Date

Well Name BACKDAHL, JOHN
Township Range Dir Section Subsections Elevation 1238 ft.
137 27 W 21 CDBCAC Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
94 ft.	94 ft.	02/21/2000

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 90 ft.	lbs./ft.	8 in. to 94 ft.

Well Address
14031 RIVESWOOD LA
CROSSLAKE MN 56442

Geological Material	Color	Hardness	From	To
SAND	BROWN	SOFT	0	26
CLAY	GRAY	HARD	26	86
SAND	GRAY	SOFT	86	94

Open Hole from ft. to ft

Screen YES Make JOHNSON Type stainless steel

Diameter	Slot/Gauze	Length	Set Between
3	12	4	90 ft. and 94 ft.

Static Water Level
10 ft. from Land surface Date Measured 02/2?/2000

PUMPING LEVEL (below land surface)
ft. after hrs. pumping g.p.m.

Well Head Completion
Pitless adapter manufacturer BAKER 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 0 to 60 ft. 8 bags

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 415219 Y 5168289

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 02/21/2000
Manufacturer's name STA-RITE Model number HP 0.5 Volts 230
Length of drop Pipe 75 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-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft

Well Contractor Certification

Northland Drilling, Inc.	49697	PUGH, G
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report | 641199 | Printed 9/16/2008
HE-01205-07

Minnesota Unique Well No.
656154

County Crow Wing
Quad Cross Lake
Quad ID 231A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 02/20/2001
Update Date 03/11/2005
Received Date

Well Name KURILLA, KIM
Township Range Dir Section Subsections Elevation
137 27 W 21 CCBCCA Elevation Method 1237 ft. 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
78 ft.	78 ft.	09/27/2000

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 74 ft.	lbs./ft.	

Open Hole from ft. to ft

Screen YES Make JOHNSON Type stainless steel

Diameter	Slot/Gauze	Length	Set Between
3	15	4	74 ft. and 78 ft.

Geological Material	Color	Hardness	From	To
SAND	BROWN	SOFT	0	6
SAND	GRAY	SOFT	6	25
CLAY	GRAY	SOFT	25	32
SAND	GRAY	SOFT	32	34
CLAY	GRAY	MEDIUM	34	45
SAND	GRAY	SOFT	45	50
CLAY/ ROCKS	GRAY	HARD	50	71
SAND/ ROCKS	GRAY	MEDIUM	71	78

Static Water Level
10 ft. from Land surface Date Measured 09/27/2000

PUMPING LEVEL (below land surface)
ft. after hrs. pumping 12 g.p.m.

Well Head Completion
Pitless adapter manufacturer BAKER 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 0 to 40 ft. 6 bags

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 414786 Y 5168247

Nearest Known Source of Contamination
44 feet N direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☑ No

Pump ☑ Not Installed Date Installed 10/05/2000
Manufacturer's name STA-RITE Model number HP 0.5 Volts 230
Length of drop Pipe 58 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 & larger-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft

Well Contractor Certification

Northland Drilling, Inc.	49697	PUGH, G.
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report | 656154 | Printed 9/16/2008 HE-01205-07

Minnesota Unique Well No.
720021

County Crow Wing
Quad Cross Lake
Quad ID 231A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 03/10/2005
Update Date 05/18/2006
Received Date 01/25/2005

Well Name OLSON, DAVID & KATHY
Township Range Dir Section Subsections Elevation
137 27 W 21 CCBD Elevation Method
1238 ft.
Calc from DEM (USGS 7.5 m n or equiv.)

Well Depth	Depth Completed	Date Well Completed
63 ft.	63 ft.	09/23/2004

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 58 ft.	lbs./ft.	8 in. to 63 ft.

Well Address
10304 SQUAW POINT RD
MN

Open Hole from ft. to ft

Screen YES Make JOHNSON Type stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	12	5	58 ft. and 63 ft.

Geological Material	Color	Hardness	From	To
SAND	BROWN	SOFT	0	10
CLAY	GRAY	MEDIUM	10	25
SANDY CLAY	GRAY	MEDIUM	25	55
SAND	GRAY	SOFT	55	63

Static Water Level
3 ft. from Land surface Date Measured 09/23/2004

PUMPING LEVEL (below land surface)
50 ft. after 1 hrs. pumping 25 g.p.m.

Well Head Completion
Pitless adapter manufacturer BAKER Model BOLT ON
☑ 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 45 ft. 5 bags

Located Minnesota Department of Health
Unique Number Verification N/A
System UTM - Nad83, Zone15, Meters
Method GPS SA Off (averaged)
Date 03/08/2005
X: 414933 Y: 5168301

Nearest Known Source of Contamination
0 feet direction type
Well disinfected upon completion? ☑ Yes ☑ No

Pump ☑ Not Installed Date Installed 09/23/2004
Manufacturer's name JACUZZI 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

First Bedrock
Last Strat
Aquifer
Depth to Bedrock ft

Well Contractor Certification

Lambert Water Wells , Inc.	18691	LAMBERT L.
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report | 720021 | Printed 9/16/2008
HE-01205-07

- **Dilworth**

SITE SUMMARY

Site Name: Dilworth

Fire Department: Dilworth Fire Department
709 1st Ave. NW
Dilworth, MN 56529

Site Contact: Kurt Kennedy, Fire Chief
218-287-2248

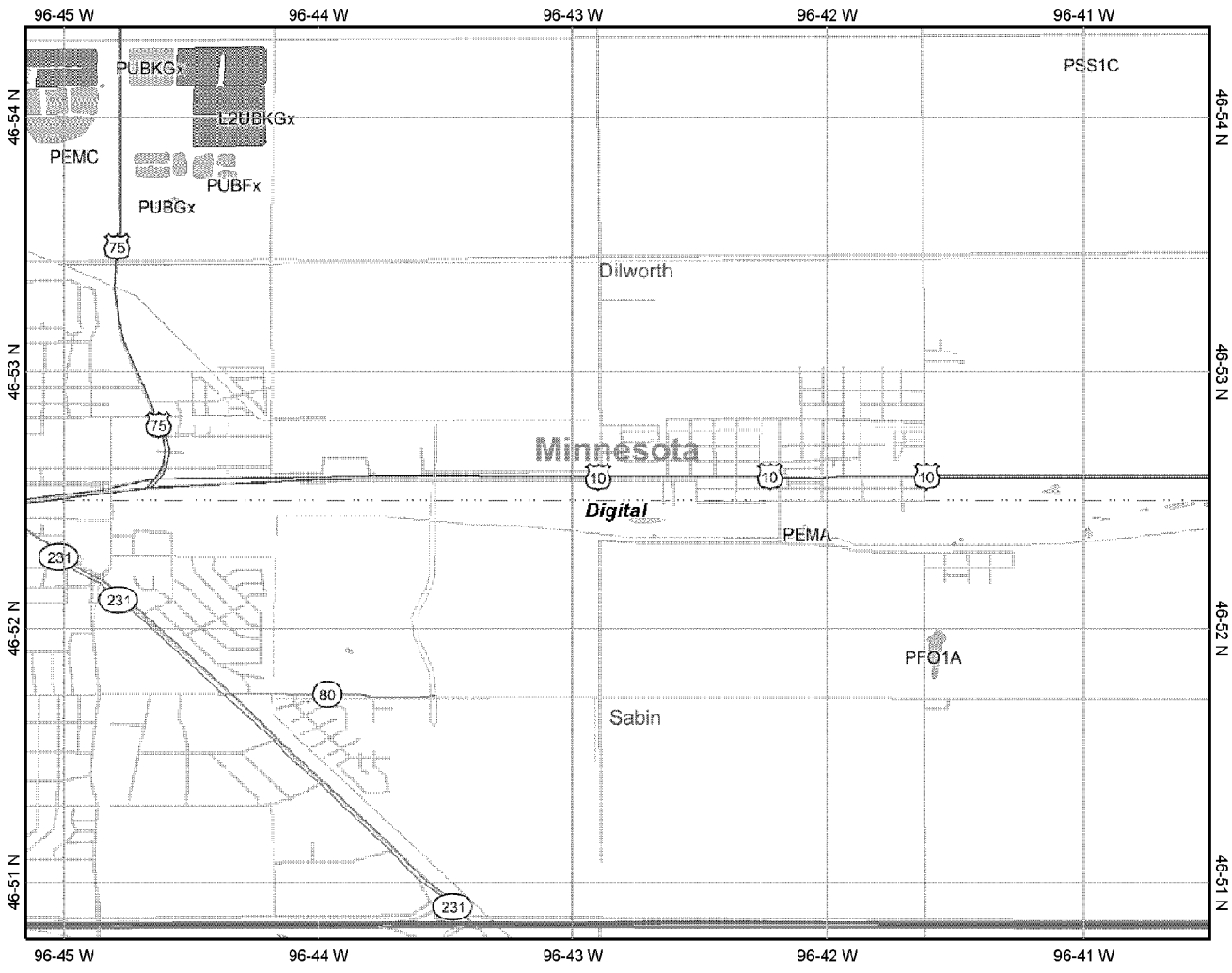
Training Location:	Fire hall, 709 1st Ave. NW
Training Location Coordinates (X,Y):	217020.05, 5198266.14
Type of foam used in training:	Class B Hi Expansion Foam: Ansul 3-6% Class A: Ansul Silv-ex
Foam training frequency:	Annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Ground
Annual foam use:	Class B Hi Expansion Foam: 5 gallons Class A: less than 5 gallons
Nearest surface water:	Drainage ditch less than 1/4 mile north
Nearest wetland:	1/4 to 1/2 mile southwest
Karst Area:	Site is not located in a karst area
Nearest water well:	Less than 1/4 mile southwest
Nearest Wellhead Protection Area:	More than 1 mile
Nearest Source Water Assessment Area:	Less than 1/2 mile
SITE RANKING:	**11**

DILWORTH CWI Well Map

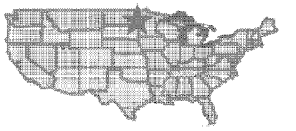


STATE_02827231

Dilworth Wetland Map



Map center: 46° 52' 34" N, 96° 42' 49" 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

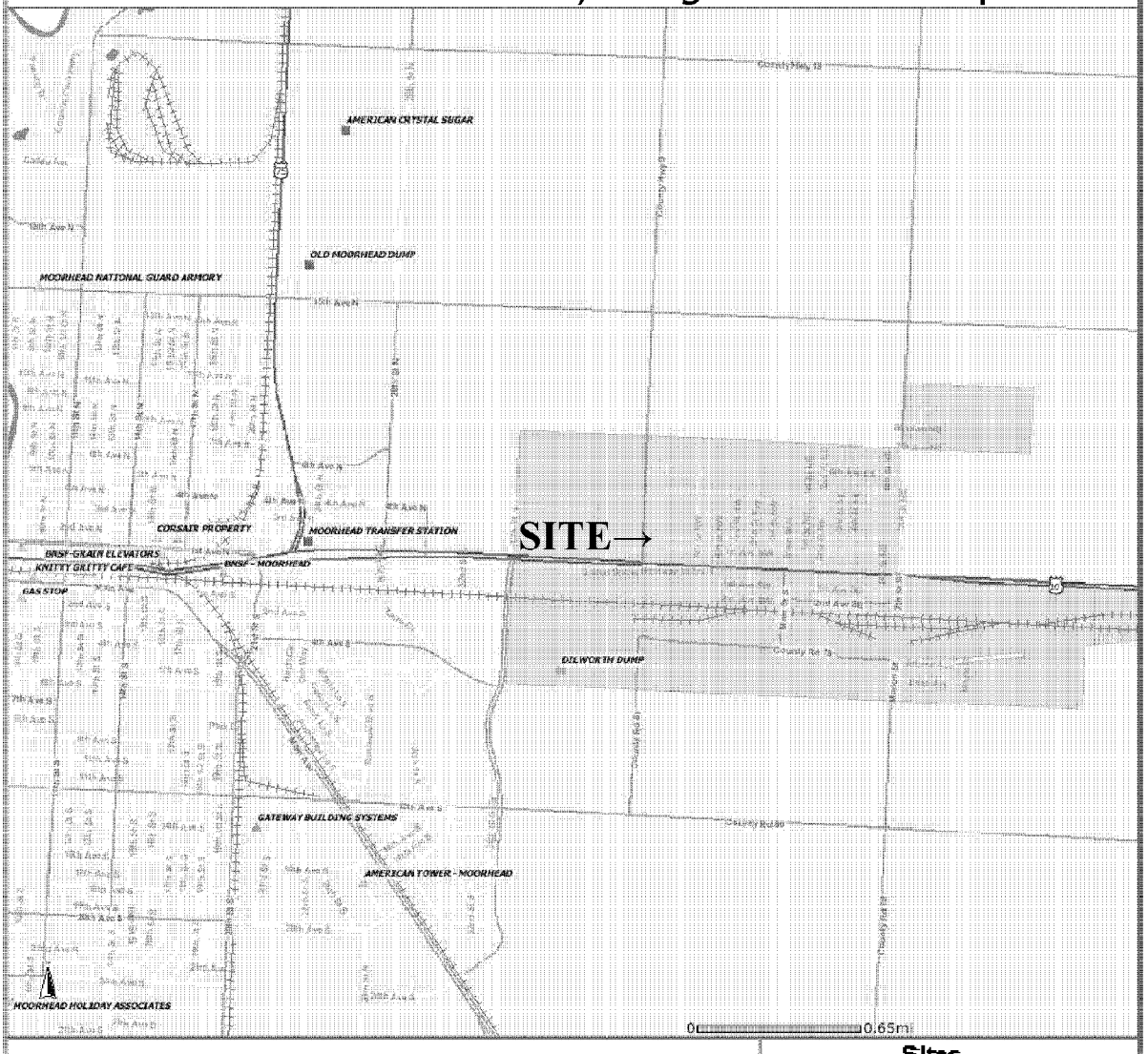
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2233.0420

STATE_02827232

Dilworth *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_02827233

2233.0421

Minnesota Unique Well No.
222094

County Clay
Quad Sabin
Quad ID 262C

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 DILWORTH ICE HOUSE
Township Range Dir Section Subsections Elevation
139 48 W 11 BBCDDD Elevation Method
906 ft.
7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
263 ft.	180 ft.	03/09/1953

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 183 ft.	lbs./ft.	

Open Hole from 183 ft. to 263 ft.

Screen NO Make Type

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
113 ft. from Land surface Date Measured 03/07/1953

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)

Well Address

DILWORTH MN

Geological Material	Color	Hardness	From	To
TOP SOIL	BLACK		0	4
CLAY	YELLOW		4	18
STICKY SHALE	GRAY		18	100
SILTY SAND + WATER			100	101
SHALE		HARD	101	111
BED ROCK			111	118
SAND + WATER			118	122
SHALE		HARD	122	134
COARSE SAND + SILT			134	139
SHALE		HARD	139	179
SAND			179	180
SHALE		HARD	180	212
SHALE + SAND		HARD	212	225
SHALE		HARD	225	235
SHALE			235	238
SHALE		HARD	238	258
SHALE			258	263

REMARKS
WELL SEALED 01-22-1992 BY 71015
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 Other, note in remarks
Date N/A
System UTM - Nad83, Zone15, Meters
X: 217093 Y: 5197747

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 Cretaceous,Undiff.
Last Strat Cretaceous,Undiff.
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock 180 ft.

License Business Name | Lic. Or Reg. No. | BODIN, E. Name of Driller

County Well Index Online Report | 222094 | Printed 9/12/2008 HE-01205-07

Minnesota Unique Well No.
478747

County Clay
Quad Dilworth
Quad ID 262B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 11/25/1992
Update Date 02/04/2008
Received Date

Well Name MN DOT TRUCK STATION
Township Range Dir Section Subsections Elevation 905 ft.
139 48 W 11 BBAACA Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
14 ft.	14 ft.	03/04/1992

Drilling Method Auger (non-specified)

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
2 in. to 4 ft.	lbs./ft.	2 in. to 14 ft.

Well Address
10 HY
DILWORTH MN 56259

Open Hole from ft. to ft.

Screen YES Make JOHNSON Type stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	20	10	4 ft. and 14 ft.

Geological Material	Color	Hardness	From	To
BLACK TOPSOIL TO BLK/GRY CLAY			0	2
GRAY/YELLOW SILTY CLAY		SOFT	2	4
GRAY/YELLOW SILTY CLAY		SOFT	4	10
YELLOW/BROWN WET CLAY			10	14

Static Water Level
6.3 ft. from Land surface Date Measured 03/04/1992

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 07-15-1996 BY 27058
ORIGINAL USE MW - MONITOR WELL

Grouting Information Well Grouted? ☑ Yes ☑ No

Grout Material: Neat Cement from to 2 ft.

Located Minnesota Department of Health
Unique Number Verification N/A
System UTM - Nad83, Zone15, Meters

Method Digitization (Screen) - Map (1:24,000)
Date 07/22/2004
X: 217275 Y: 5198075

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.	34050	HERRBOLDT, N.
License Business Name	Lic. Or Reg. No.	Name of Driller

First Bedrock
Last Strat
Aquifer
Depth to Bedrock ft.

County Well Index Online Report | 478747 | Printed 9/12/2008
HE-01205-07

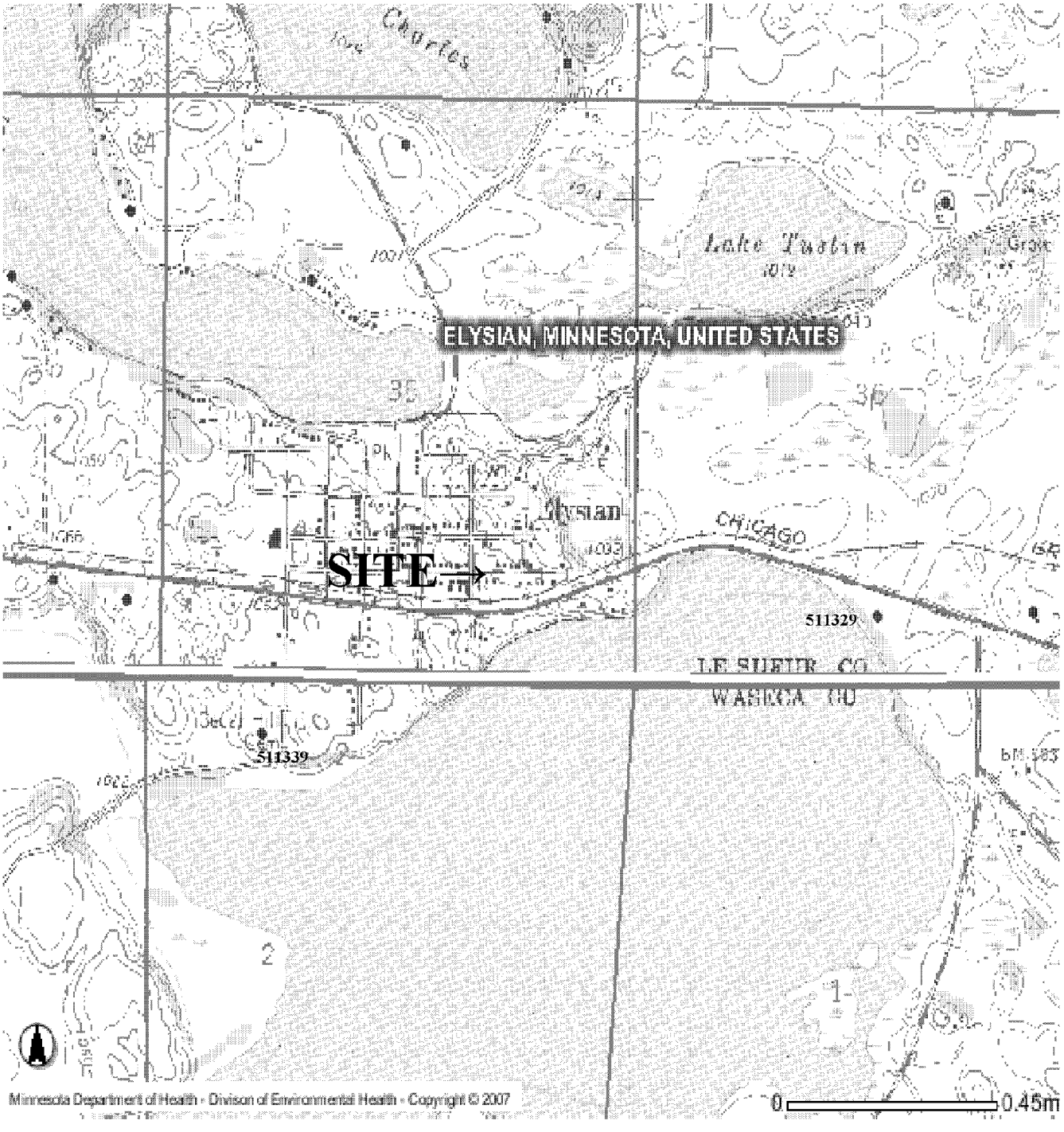
- **Elysian**

SITE SUMMARY

Site Name:	Elysian
Fire Department:	Elysian Fire Department 202 E. Main Street Box 9 Elysian, MN 56028
Site Contact:	Fire Chief Jason James 507-327-3071

Training Location:	Fire hall, 202 E. Main Street
Training Location Coordinates (X,Y):	446216.8, 4894163.44
Type of foam used in training:	AFFF: unsure of brand, doesn't believe ever use 3M brand Class A: unsure of brand
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 Class A: Less than 5 gallons
Nearest surface water:	Lake Elysian less than 1/4 mile southeast
Nearest wetland:	Less than 1/4 mile northeast
Karst Area:	Site is located in a covered karst area.
Nearest water well:	1/2 to 1 mile east
Nearest Wellhead Protection Area:	More than 1 mile
Nearest Source Water Assessment Area:	Site is located in a SWAA
SITE RANKING:	**16**

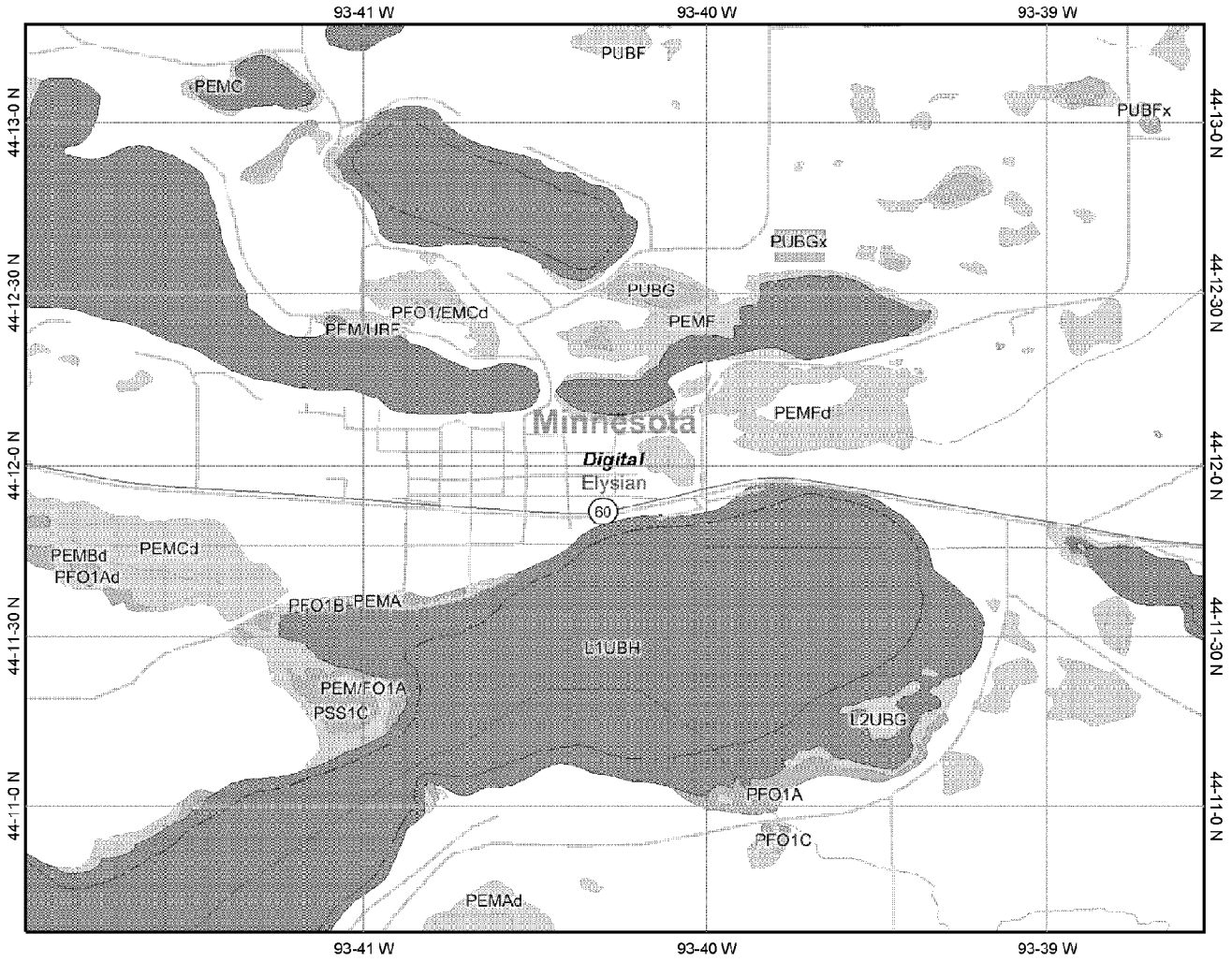
ELYSIAN CWI Well Map

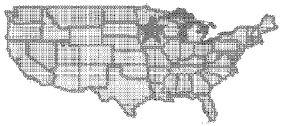


STATE_02827238

2233.0426

Elysian 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: 1:34,408

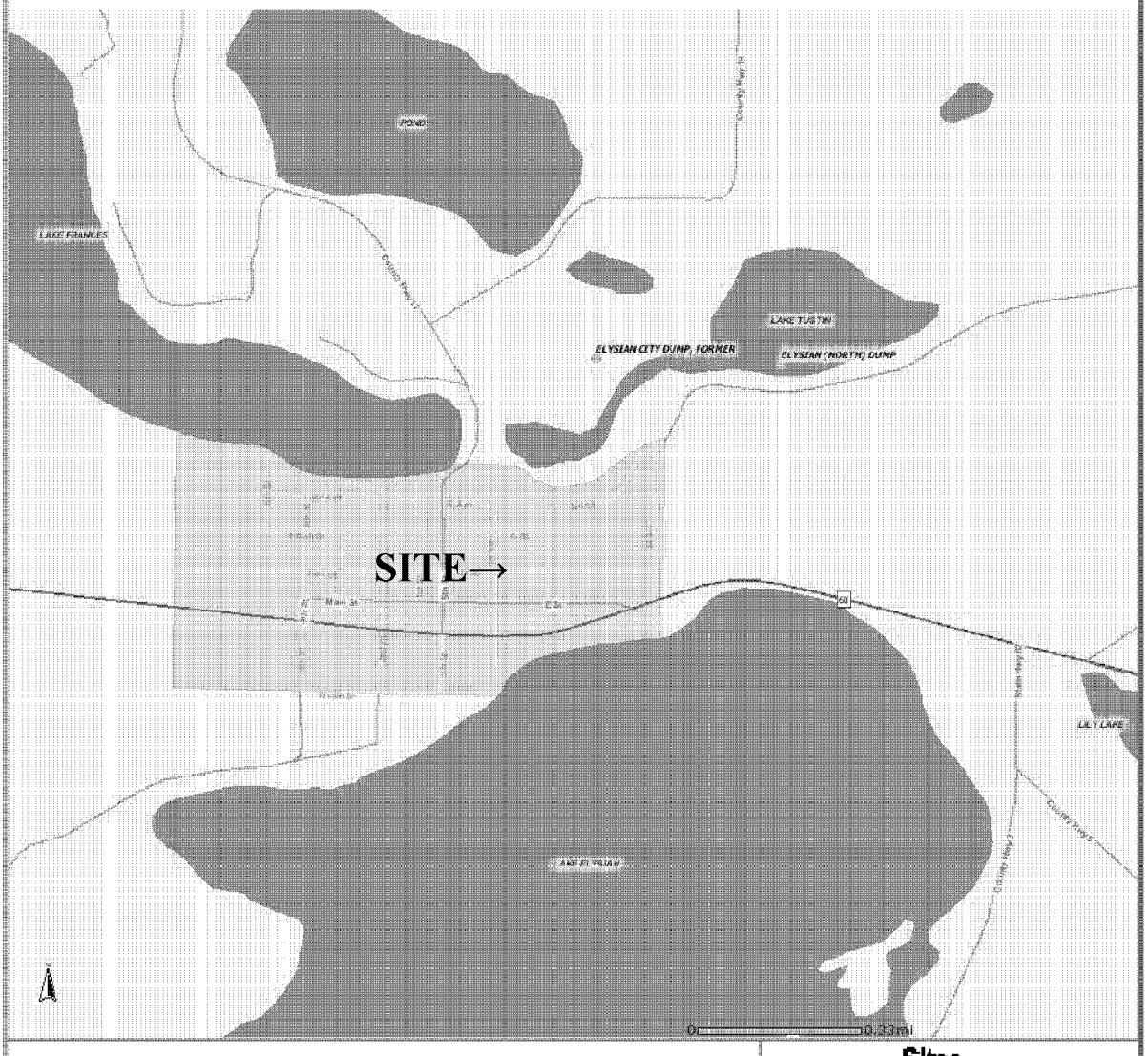
Map center: 44° 11' 58" N, 93° 40' 16" W

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2233.0427

STATE_02827239

Elysian *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_02827240

2233.0428

Minnesota Unique Well No.
511329

County Le Sueur
Quad Elysian
Quad ID 54B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 10/10/1991
Update Date 07/23/2002
Received Date

Well Name SCHULTZ, WEST
Township Range Dir Section Subsections Elevation
109 24 W 36 DCCBBC Elevation Method
1023 ft.
7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
100 ft.	100 ft.	05/16/1990

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 No Information Drive Shoe? ☑ Yes ☑ No Above/Below 1 ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 95 ft.	11 lbs./ft.	6 in. to 95 ft.

Well Address
RFD
ELYSIAN MN

Open Hole from ft. to ft.

Screen YES Make JOHNSON Type stainless steel

Diameter	Slot/Gauze	Length	Set Between
3.5	10	7	95 ft. and 100 ft.

Geological Material	Color	Hardness	From	To
SAND	GRAY	SOFT	0	45
CLAY SAND LAYERS	GRAY	SOFT	45	83
SAND + GRAVELERS	GRAY	SOFT	83	100

Static Water Level
4 ft. from Land surface Date Measured 05/16/1990

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: Cuttings from 0 to 95 ft.

Located Minnesota Geological Survey
Unique Number Verification Address verification
System UTM - Nad83, Zone15, Meters

Method Digitization (Screen) - Map (1:24,000)
Date 06/24/2004
X: 447553 Y 4894037

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
Manufacturer's name FLINT + WALLING Model number HP 0.5 Volts 220
Length of drop Pipe 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

First Bedrock
Last Strat Sand & larger-gray
Aquifer Qual. Buried Artes. Aquifer
Depth to Bedrock ft.

License Business Name	Lic. Or Reg. No.	Name of Driller
	42138	BEMIS, B.

County Well Index Online Report | 511329 | Printed 10/3/2008
HE-01205-07

Minnesota Unique Well No.
511339

County Waseca
Quad Elysian
Quad ID 54B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 01/28/1992
Update Date 03/11/2005
Received Date

Well Name JAMES, DON
Township Range Dir Section Subsections Elevation 1044 ft.
108 24 W 2 BBADDA Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
120 ft.	120 ft.	08/30/1990

Drilling Method Non-specified Rotary

Drilling Fluid Water

Well Hydrofractured? ☑ Yes ☑ No From Ft. to Ft.

Use Domestic

Casing Type Wood Joint Threaded Drive Shoe? ☑ Yes ☑ No Above/Below 1 ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 115 ft.	11 lbs./ft.	6 in. to 115 ft.
		4 in. to 120 ft.

Open Hole from ft. to ft

Screen YES Make JOHNSON Type stainless steel

Diameter	Slot/Gauze	Length	Set Between
3.5	10	4	115 ft. and 120 ft.

Well Address
RFD 1
ELYSIAN MN 56028

Geological Material	Color	Hardness	From	To
CLAY	YELLOW	SOFT	0	20
CLAY	BLUE	SOFT	20	40
GRAVEL LAYER + CLAY	BLUE	MEDIUM	40	120

Static Water Level
55 ft. from Land surface Date Measured 08/30/1990

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)

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 Other, note in remarks Date 06/24/2004
System UTM - Nad83, Zone15, Meters X: 445468 Y: 4893705

Nearest Known Source of Contamination
200 feet South East direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☑ No

Pump ☑ Not Installed Date Installed
Manufacturer's name FLINT + WALLING Model number HP 0.75 Volts 220
Length of drop Pipe 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
Last Strat Pebbly sand/silt/clay-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft

Well Contractor Certification

Bemis Well Co.	40198	BORN, M.
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report 511339 Printed 10/3/2008
HE-01205-07

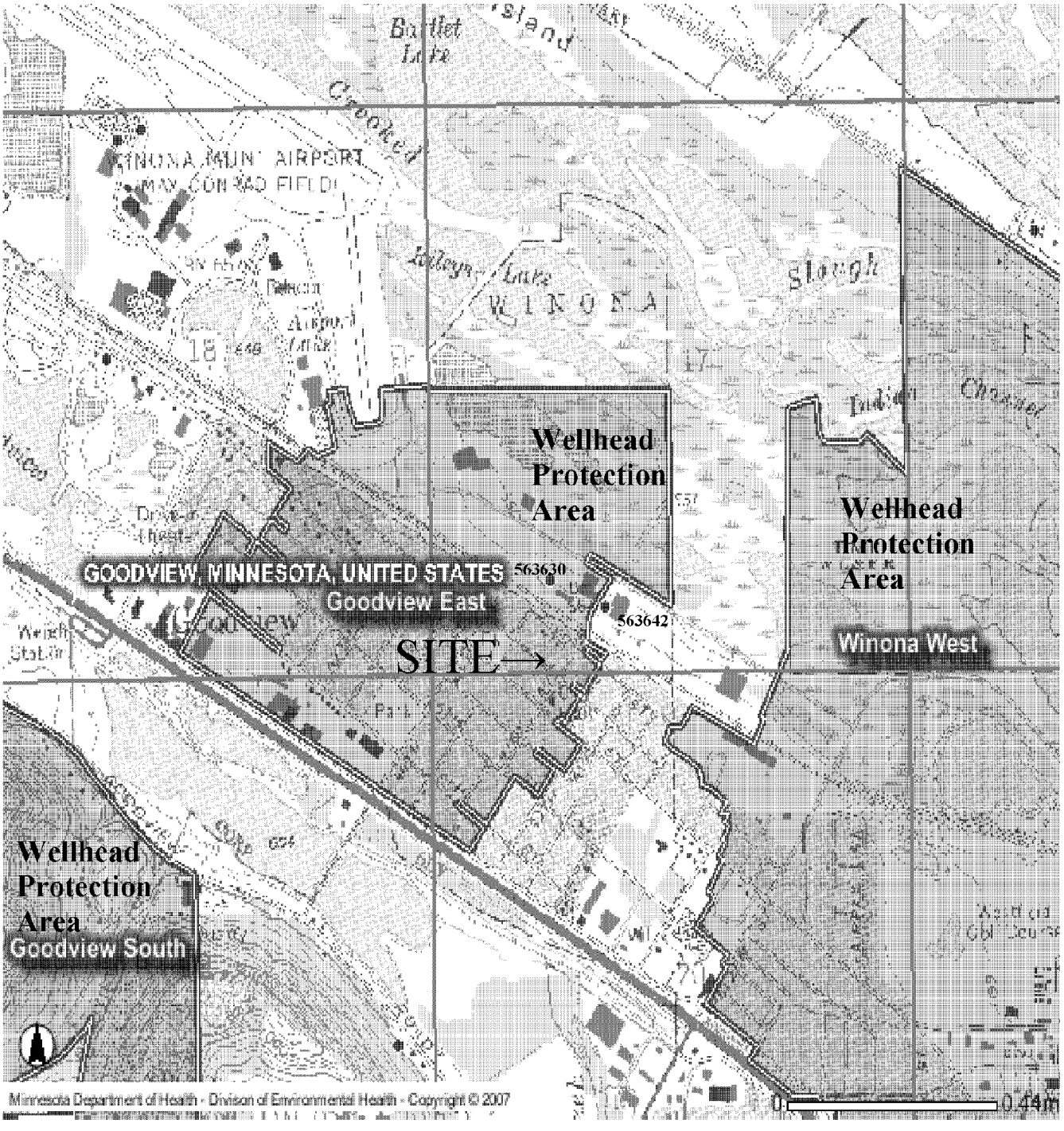
- **Goodview**

SITE SUMMARY

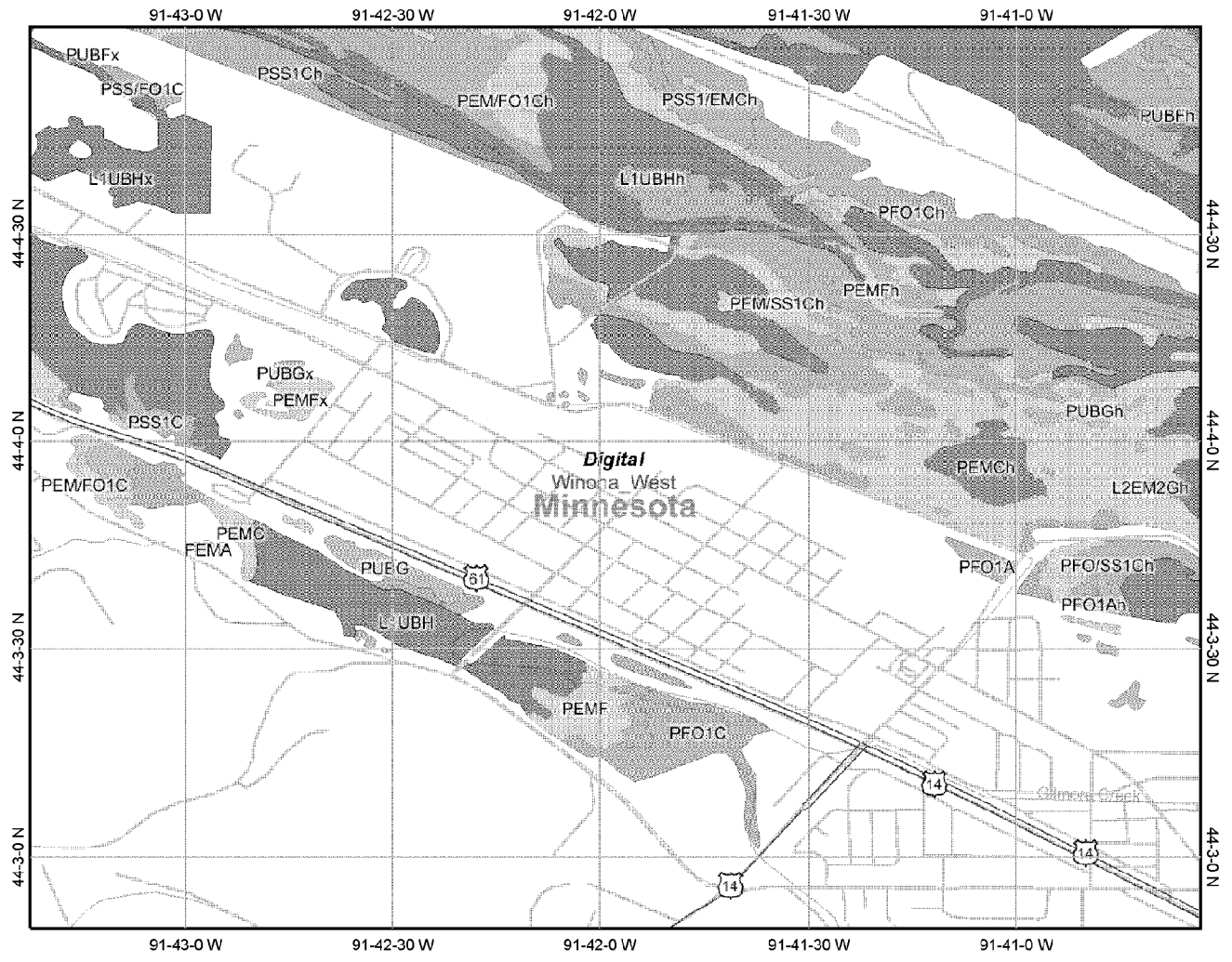
Site Name:	Goodview
Fire Department:	Goodview Fire Department 4135 W. 5th Street Winona, MN 55987
Site Contact:	Rick Bambenek, Fire Chief 507-312-0031

Training Location:	Across from fire station, at 4140 W. 5th Street, Goodview
Training Location Coordinates (X,Y):	604478, 4879751.11
Type of foam used in training:	AFFF: Ansul (historic use) Class A: Ansul Silv-ex (historic use) Other: HCT F-500 A/B foam sticks (current use)
Foam training frequency:	Annually
Foam use per training event:	5 gallons
Spent foam destination:	Storm sewer
Annual foam use:	AFFF: 20 gallons Class A: 20 gallons Other: Haven't used yet, switched to A/B sticks in March 2008
Nearest surface water:	Mississippi River backwaters, approximately 1/4 mile north
Nearest wetland:	Approximately 1/4 mile north
Karst Area:	Site is located in an active karst area
Nearest water well:	Less than 1/4 mile north
Nearest Wellhead Protection Area:	Site is located in a WPA
Nearest Source Water Assessment Area:	Less than 1 mile
SITE RANKING:	**21**

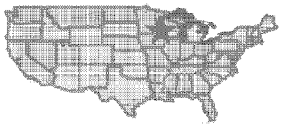
GOODVIEW CWI Well Map



Goodview Wetland Map



Map center: 44° 3' 55" N, 91° 41' 58" 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

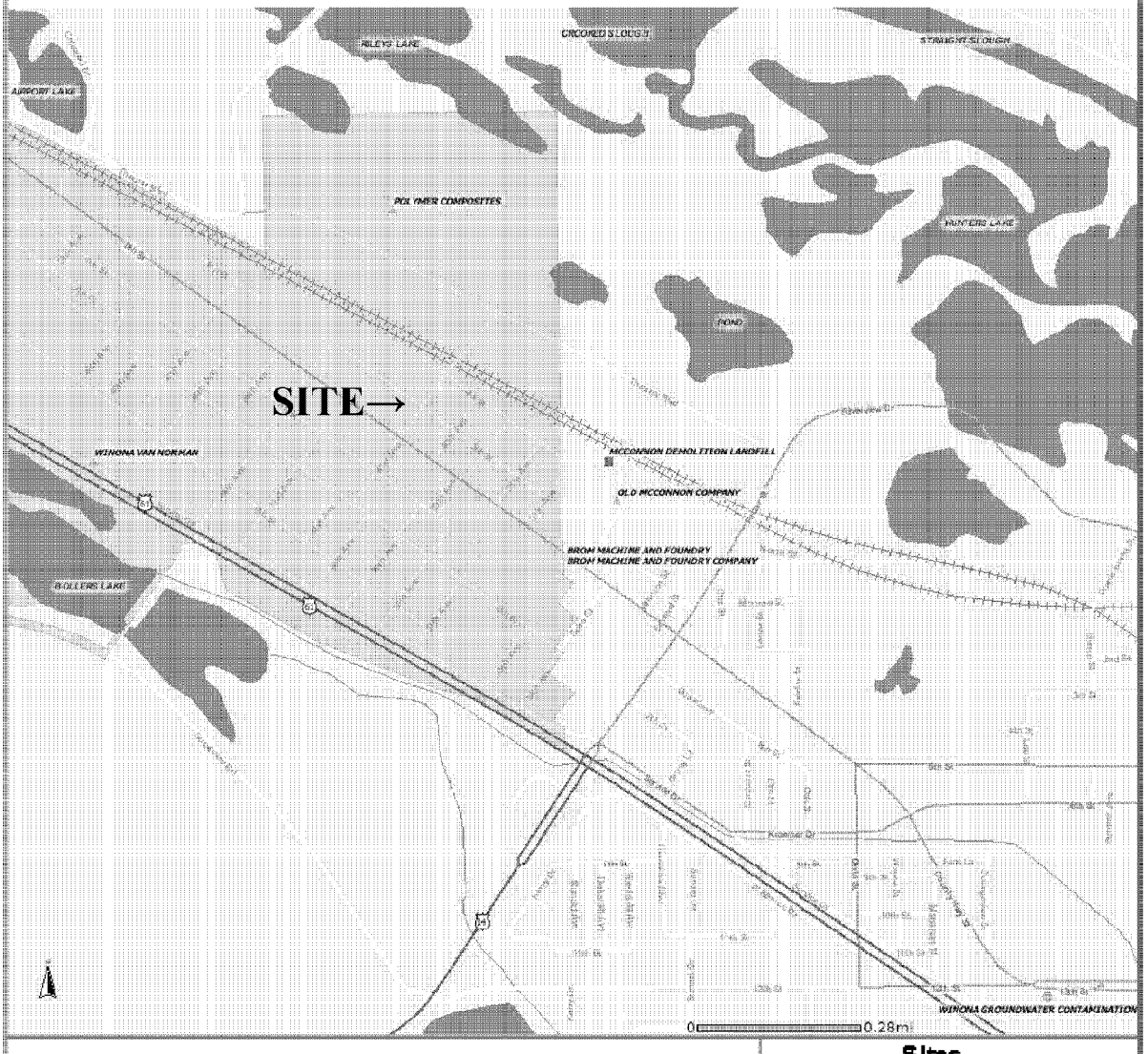
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2233.0434

STATE_02827246

Goodview *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_02827247

2233.0435

Minnesota Unique Well No.
563630

County Winona
Quad Winona West
Quad ID 46C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 03/14/1997
Update Date 11/30/2007
Received Date

Well Name EMD ASSOCIATES INC.

Township	Range	Dir	Section	Subsections	Elevation	Elevation Method
107	7	W	17	CDB	658 ft.	7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
66 ft.	66 ft.	02/15/1996

Drilling Method Cable Tool

Drilling Fluid --

Well Hydrofractured? ☑ Yes ☑ No
From Ft. to Ft.

Use Heat pump

Casing Type Steel (black or low carbon) Joint Threaded Drive Shoe? ☑ Yes ☑ No Above/Below ft.

Casing Diameter	Weight	Hole Diameter
6 in. to 52 ft.	19.45 lbs./ft.	10 in. to 8 ft.
		6 in. to 66 ft.

Open Hole from ft. to ft.

Screen YES Make WESCO Type stainless steel

Diameter	Slot/Gauze	Length	Set Between
6	15	14	52 ft. and 66 ft.

Well Address
4065 THEURER BL
WINONA MN

Geological Material	Color	Hardness	From	To
SAND GRAVEL	BROWN	MEDIUM	0	66

Static Water Level
17 ft. from Land surface Date Measured 02/13/1996

PUMPING LEVEL (below land surface)
21 ft. after 1 hrs. pumping 110 g.p.m.

Well Head Completion
Pitless adapter manufacturer WHITEWATER Model PAT 500
☑ Casing Protection ☑ 12 in. above grade
☑ At-grade (Environmental Wells and Borings ONLY)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☑ No

Located
Unique Number Verification N/A
System UTM - Nad83, Zone15, Meters

Method Digitization (Screen) - Map (1:24,000)
Date N/A
X: 604491 Y: 4879996

Nearest Known Source of Contamination
60 feet North West direction Tanks type
Well disinfected upon completion? ☑ Yes ☑ No

Pump ☑ Not Installed Date Installed 02/13/1996
Manufacturer's name GOULDS Model number 90L07 HP 7.5 Volts 460
Length of drop Pipe 42 ft. Capacity 110 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
Hartert Well	79609	HARTERT, E.

First Bedrock
Last Strat Sand & larger
Aquifer
Depth to Bedrock ft.

County Well Index Online Report | 563630 | Printed 9/24/2008
HE-01205-07

Minnesota Unique Well No.
563642

County Winona
Quad Winona West
Quad ID 46C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 03/14/1997
Update Date 11/30/2007
Received Date

Well Name EMD ASSOCIATES INC.

Township	Range	Dir	Section	Subsections	Elevation	Elevation Method
107	7	W	17	CDC	657 ft.	7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
43 ft.	43 ft.	11/12/1996

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.	11 lbs./ft.	8 in. to 8 ft.
		4 in. to 43 ft.

Open Hole from ft. to ft.

Screen YES Make WESCO Type stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	15	9	34 ft. and 43 ft.

Well Address
4065 THEURER BL
WINONA MN

Geological Material	Color	Hardness	From	To
SAND GRAVEL	BROWN	SOFT	0	43

Static Water Level
15 ft. from Land surface Date Measured 11/12/1996

PUMPING LEVEL (below land surface)
18 ft. after 2 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

Located
Unique Number Verification N/A
System UTM - Nad83, Zone15, Meters

Method Digitization (Screen) - Map (1:24,000)
Date N/A
X: 604677 Y: 4879919

Nearest Known Source of Contamination
139 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 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
Hartert Well	79609	HARTERT, E.

First Bedrock
Last Strat Sand & larger-brown
Aquifer
Depth to Bedrock ft.

County Well Index Online Report | 563642 | Printed 9/24/2008
HE-01205-07

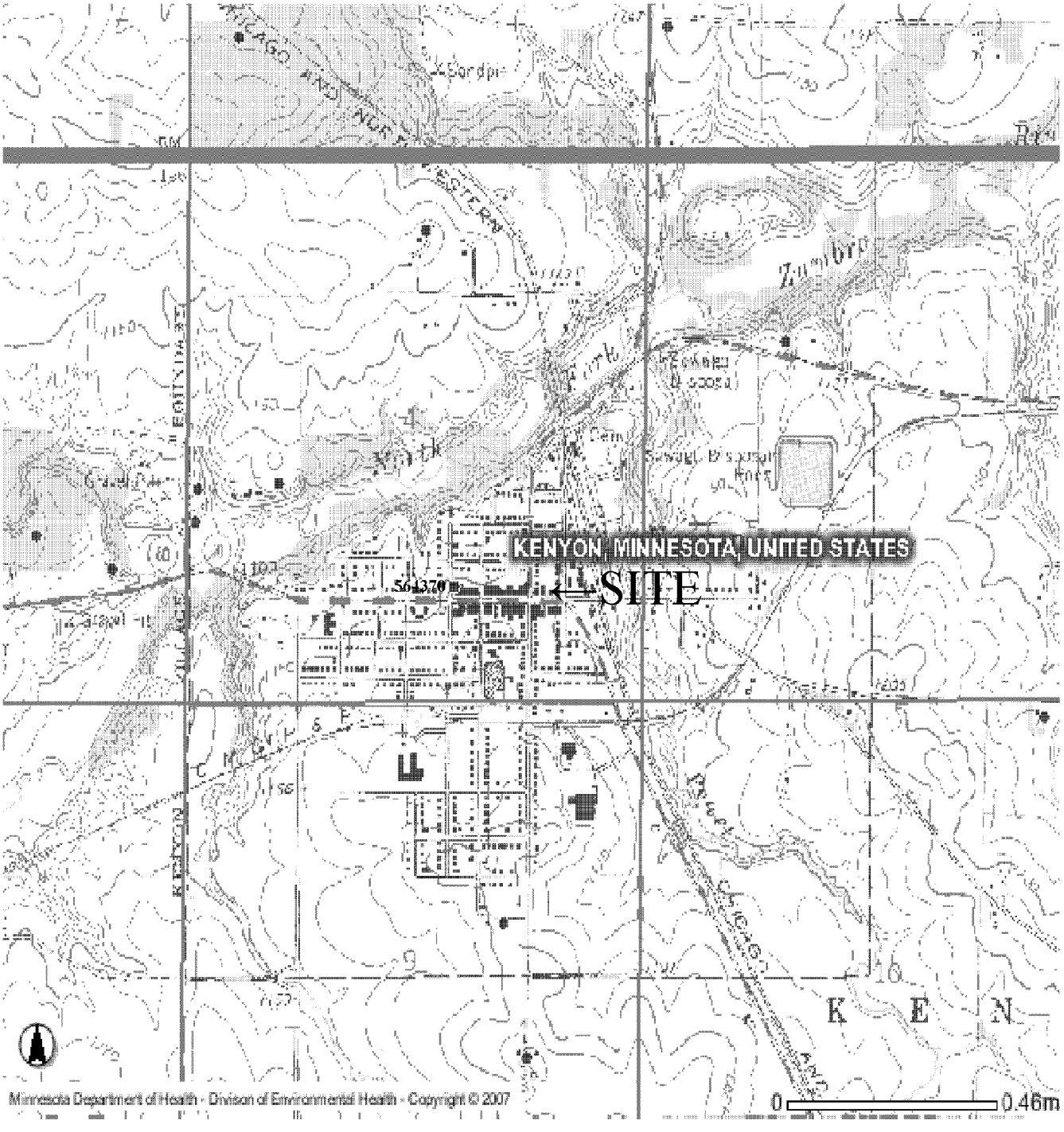
- **Kenyon**

SITE SUMMARY

Site Name:	Kenyon
Fire Department:	Kenyon Fire Department PO Box 6 Kenyon, MN 55946
Site Contact:	Doug Noah, Fire Chief 507-838-9657

Training Location:	Fire station, 714 2nd Street
Training Location Coordinates (X,Y):	501206.91, 4902119
Type of foam used in training:	AFFF: varies, mostly 3M-brand foam
Foam training frequency:	Bi-annually
Foam use per training event:	Less than 5 gallons; only run foam until it comes out nozzle to show system hook-up, then train with water.
Spent foam destination:	Ground
Annual foam use:	AFFF: 20 gallons Class A: less than 5 gallons
Nearest surface water:	Tributary to the North Fork of the Zumbro River, approximately 1/4 mile to the east
Nearest wetland:	1/4 to 1/2 mile north
Karst Area:	Site appears to be located in an active karst area
Nearest water well:	Less than 1/4 mile west
Nearest Wellhead Protection Area:	More than 1 mile
Nearest Source Water Assessment Area:	Site is located in a SWAA
SITE RANKING:	**27**

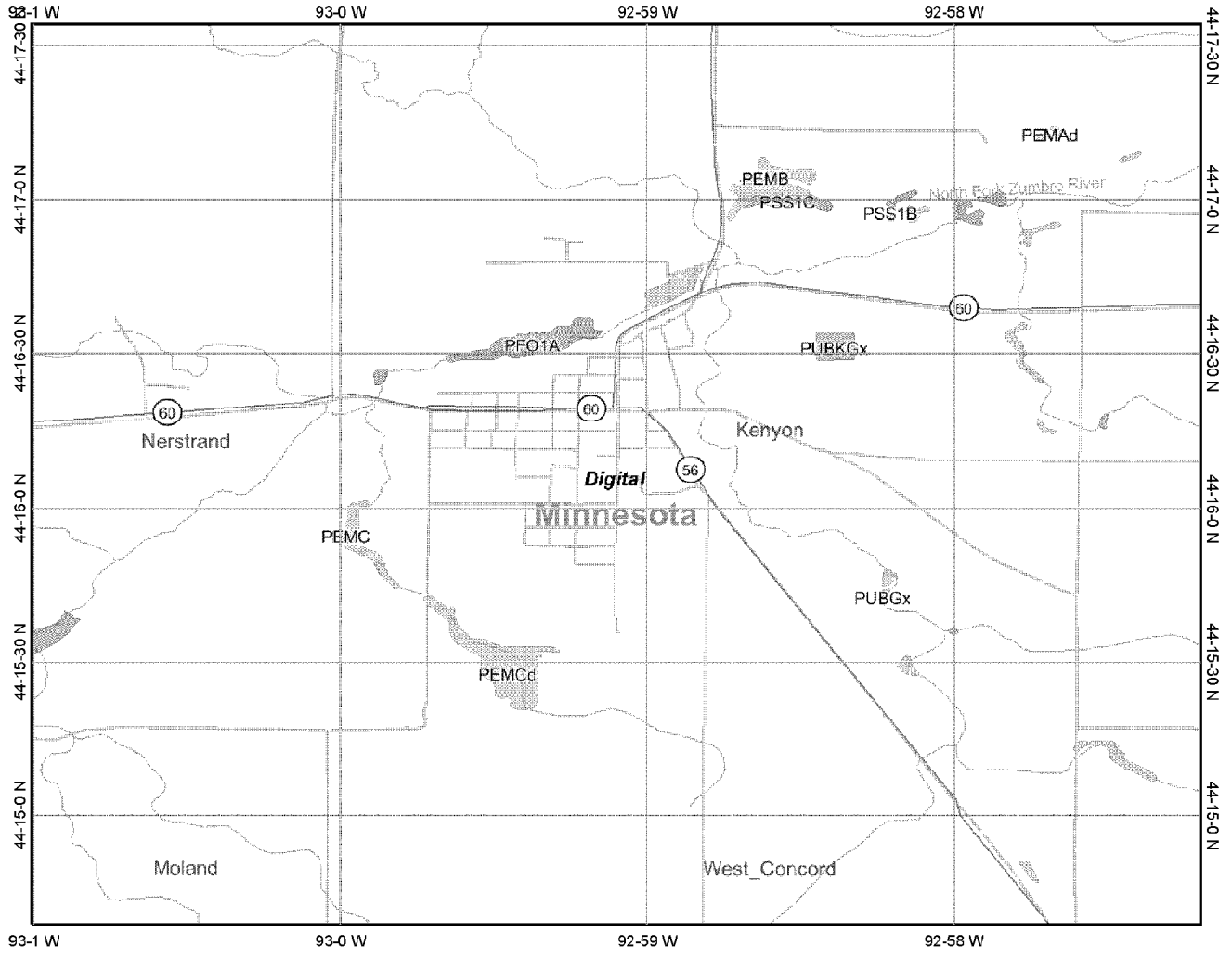
KENYON CWI Well Map

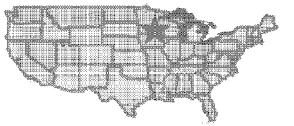


STATE_02827252

2233.0440

Kenyon 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: 1:38,002

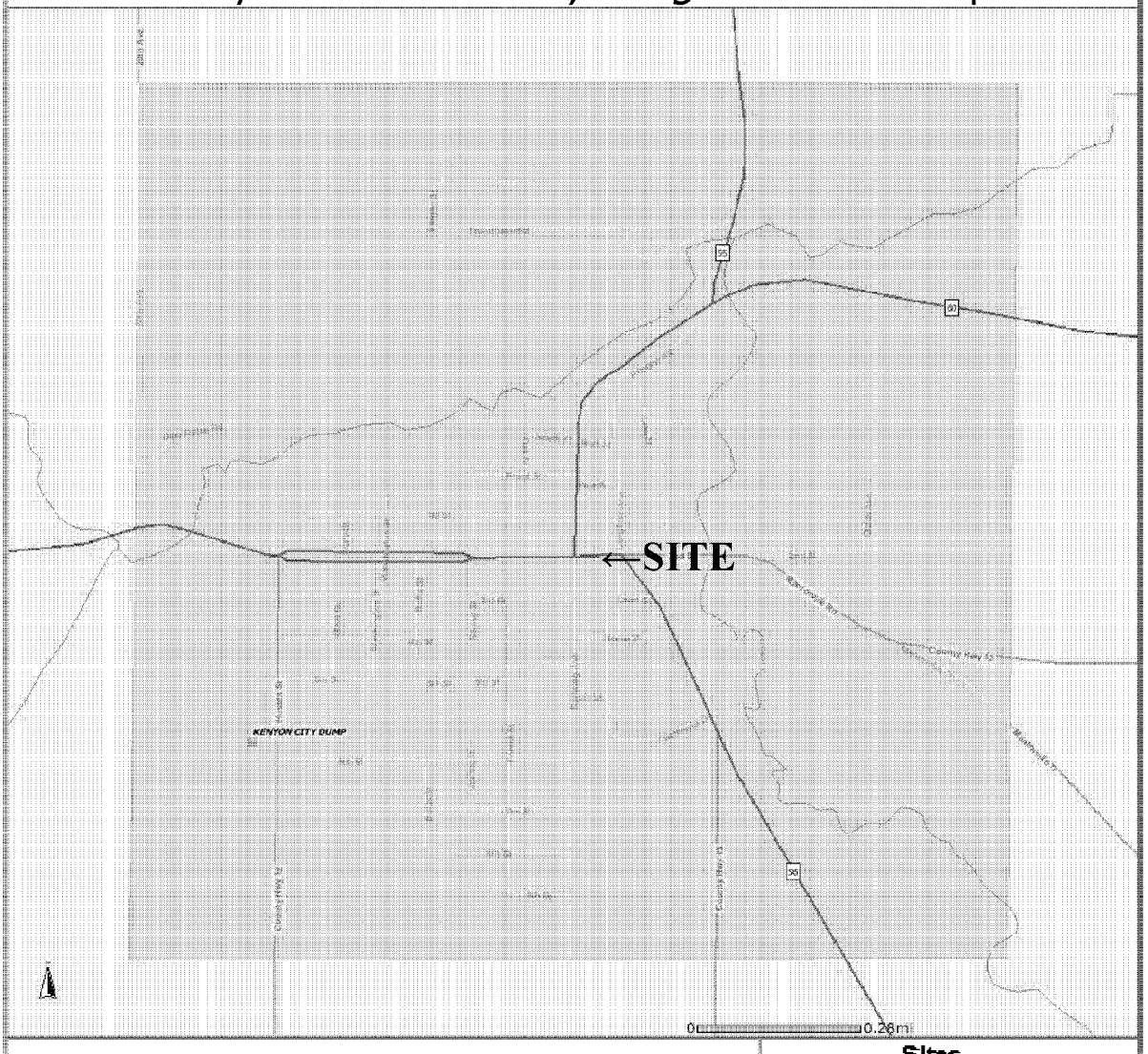
Map center: 44° 16' 7" N, 92° 59' 6" W

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2233.0441

STATE_02827253

Kenyon *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

Minnesota Unique Well No.
564370

County Goodhue
Quad Kenyon
Quad ID 70C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 11/21/1995
Update Date 12/12/1995
Received Date

Well Name SECURITY STATE BANK
Township Range Dir Section Subsections Elevation 1154 ft.
109 18 W 4 DCBACA Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
17 ft.	17 ft.	05/01/1995

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 0 ft.

Casing Diameter	Weight	Hole Diameter
20 in. to 8 ft.	lbs./ft.	20 in. to 17 ft.
16 in. to 17 ft.	lbs./ft.	

Open Hole from ft. to ft

Screen Make Type

Diameter	Slot/Gauze	Length	Set Between

Well Address
602 2ND ST
KENYON MN

Geological Material	Color	Hardness	From	To
SHALE	GRAY	HARD	0	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

Grout Material: Neat Cement from 0 to 17 ft. 14 bags

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: 500912 Y: 4902125

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 Clay-gray
Aquifer
Depth to Bedrock ft.

License Business Name	Lic. Or Reg. No.	Name of Driller
	LOCO2	STANGRET, M.

County Well Index Online Report 564370 Printed 9/24/2008
HE-01205-07

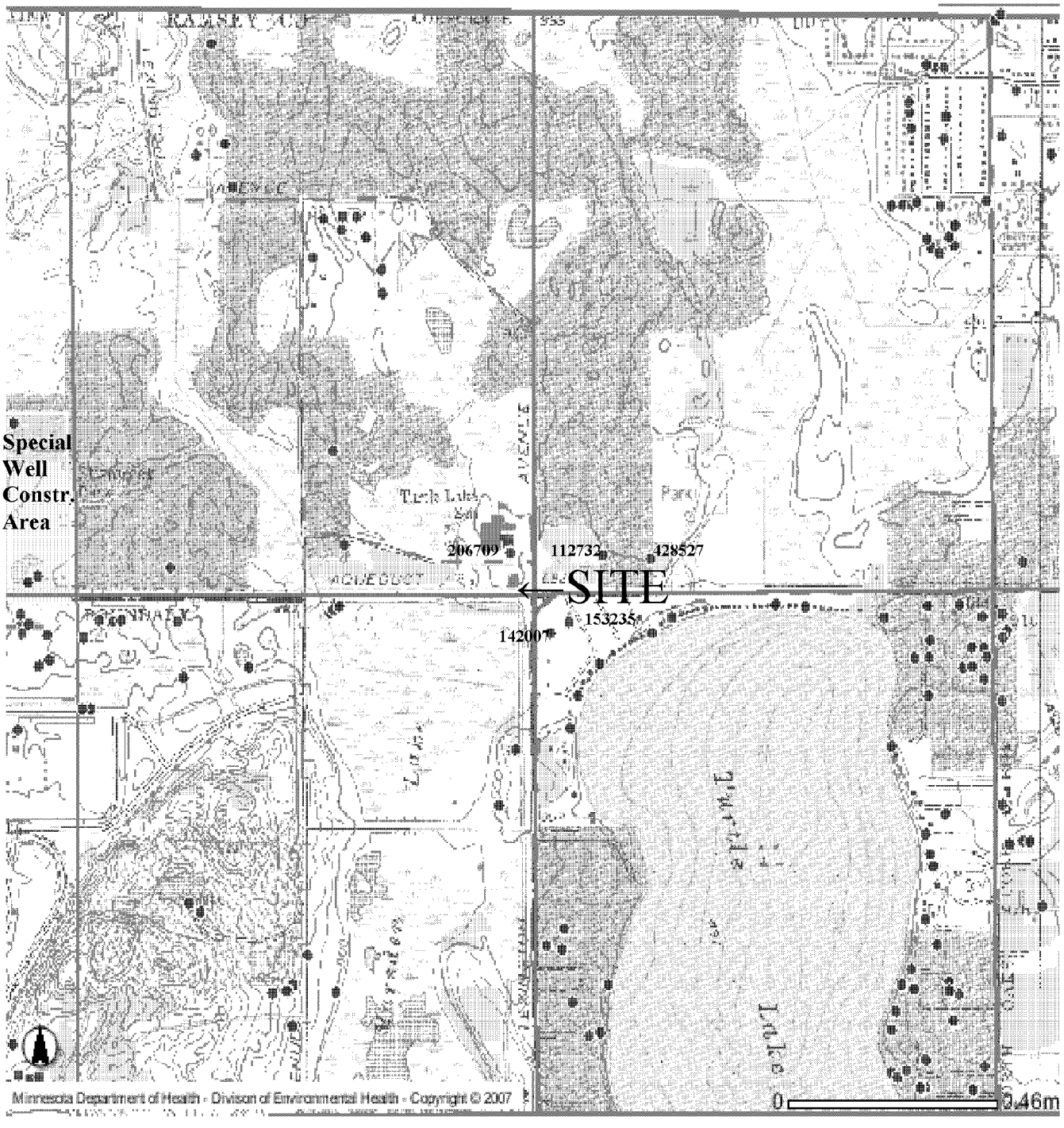
- **Lake Johanna**

SITE SUMMARY

Site Name:	Lake Johanna
Fire Department:	Lake Johanna Fire Department 5545 Lexington Ave. N. Shoreview, MN 55126
Site Contact:	Tim Boehlke, Fire Chief 651-481-7024

Training Location:	Fire Station 3, 5545 Lexington Ave. N., Shoreview
Training Location Coordinates (X,Y):	488316.27, 4995010.77
Type of foam used in training:	AFFF: Angus 3-6% Class A: Ansul Silv-ex
Foam training frequency:	Annually
Foam use per training event:	Approximately 40 gallons
Spent foam destination:	Ground, storm sewer
Annual foam use:	AFFF: 20 gallons Class A: 100 gallons
Nearest surface water:	Turtle Lake less than 1/4 mile southeast
Nearest wetland:	Less than 1/4 mile south and east
Karst Area:	Site is located in a covered karst area
Nearest water well:	Less than 1/8 mile north
Nearest Wellhead Protection Area:	More than 1 mile
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**15**

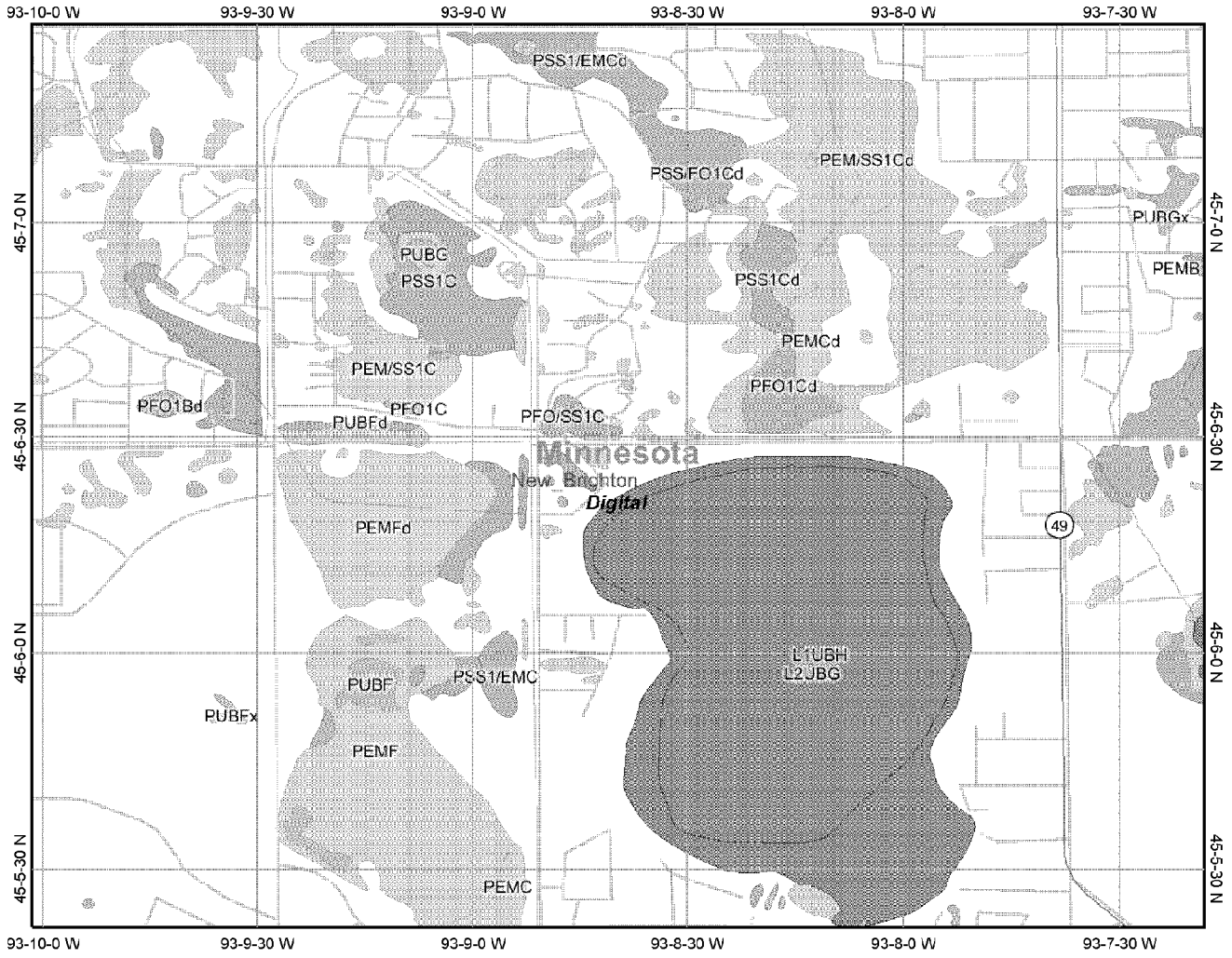
LAKE JOHANNA CWI Well Map

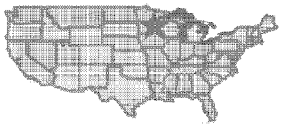


STATE_02827258

2233.0446

Lake Johanna 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: 1:27,180

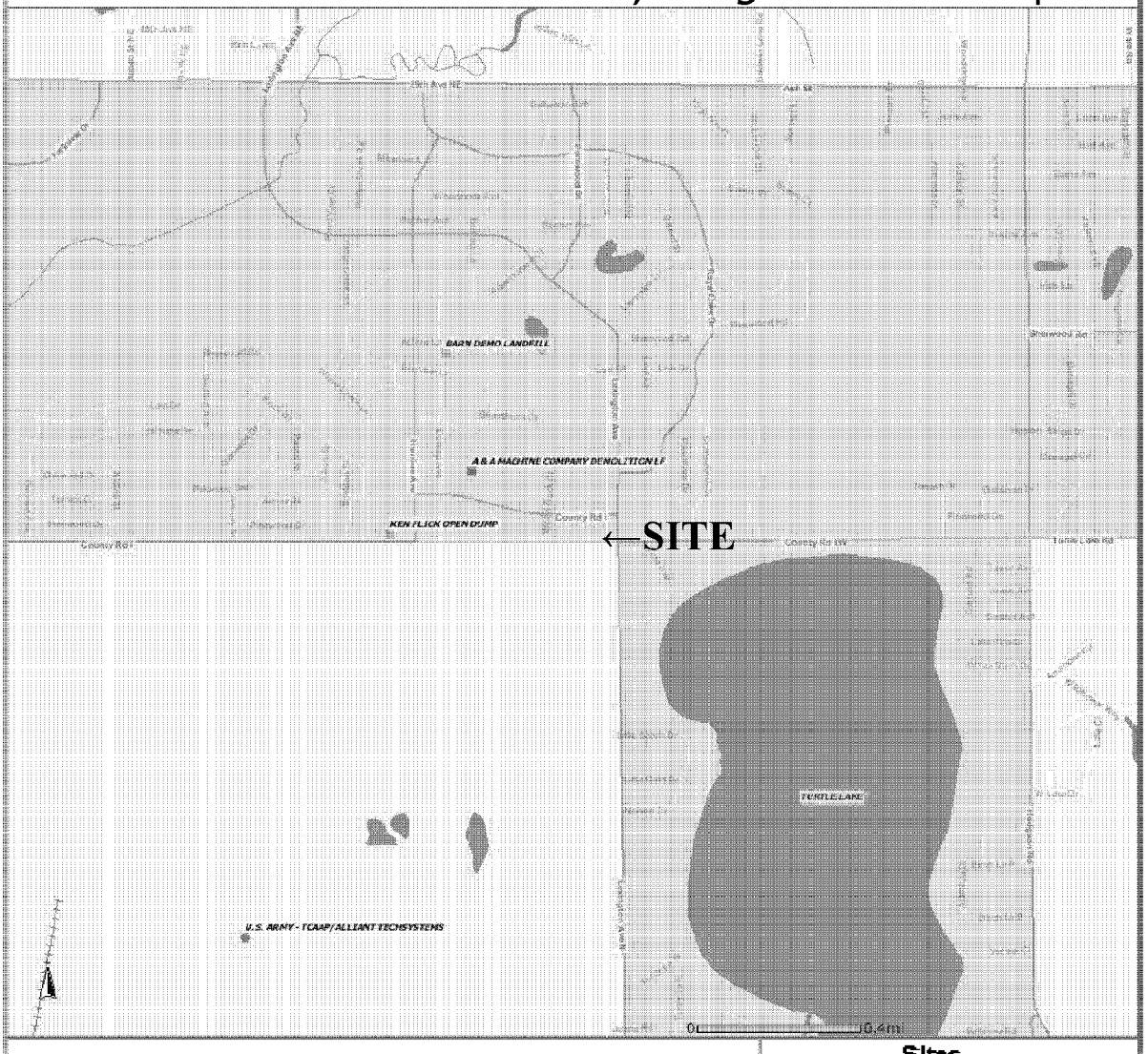
Map center: 45° 6' 25" N, 93° 8' 40" W

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2233.0447

STATE_02827259

Lake Johanna *What's In My Neighborhood* Map



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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

Minnesota Unique Well No.
112732

County Ramsey
Quad New Brighton
Quad ID 119C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/14/1991
Update Date 08/23/1991
Received Date

Well Name MICHAEL P. QUISBERG
Township Range Dir Section Subsections Elevation
30 23 W 2 CCDBCD Elevation Method 897 ft. 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
90 ft.	90 ft.	12/08/1975

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 88 ft.	lbs./ft.	

Open Hole from ft. to ft

Screen YES Make JOHNSON Type other

Diameter	Slot/Gauze	Length	Set Between
2	18	6	84 ft. and 90 ft.

Geological Material	Color	Hardness	From	To
SAND			0	20
CLAY			20	70
WATER SAND			70	90

Static Water Level
20 ft. from Land surface Date Measured 12/08/1975

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

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: 488630 Y: 4995083

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 GP1002 HP 0.75 Volts 220
Length of drop Pipe 60 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

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 | 112732 | Printed 9/10/2008
HE-01205-07

Minnesota Unique Well No.
142007

County Ramsey
Quad New Brighton
Quad ID 119C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/14/1991
Update Date 08/23/1991
Received Date

Well Name JAMES KAVANAUGH

Township	Range	Dir	Section	Subsections	Elevation	
30	23	W	11	BBBCAB	Elevation Method	895 ft. 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
87 ft.	87 ft.	12/22/1977

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 84 ft.	lbs./ft.	

Open Hole from ft. to ft

Screen YES Make JOHNSON Type stainless steel

Diameter	Slot/Gauze	Length	Set Between
3.5	12	3	84 ft. and 87 ft.

Geological Material	Color	Hardness	From	To
SAND FILL	BROWN		0	3
PEAT	BLACK		3	20
CLAY	GRAY		20	78
SAND	BROWN		78	87

Static Water Level
26 ft. from Land surface Date Measured 12/22/1977

PUMPING LEVEL (below land surface)
26 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: 488448 Y: 4994842

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 TAIT Model number HP 1 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

First Bedrock
Last Strat Sand-brown
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft

License Business Name | Lic. Or Reg. No. | Name of Driller

County Well Index Online Report | 142007 | Printed 9/10/2008
HE-01205-07

Minnesota Unique Well No.
153235

County Ramsey
Quad New Brighton
Quad ID 119C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/14/1991
Update Date 08/23/1991
Received Date

Well Name THOMAS ONEIL
Township Range Dir Section Subsections Elevation
30 23 W 11 BBBACC Elevation Method
895 ft.
7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
106 ft.	106 ft.	09/05/1978

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 101 ft.	lbs./ft.	

Open Hole from ft. to ft

Screen YES Make JOHNSON Type

Diameter	Slot/Gauze	Length	Set Between
2	10	5	101 ft. and 106 ft.

Geological Material	Color	Hardness	From	To
CLAY			0	83
GRAVEL			83	94
WATER SAND			94	106

Static Water Level
21 ft. from Land surface Date Measured 09/05/1978

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 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: 488512 Y: 4994877

Nearest Known Source of Contamination
55 feet N direction type
Well disinfected upon completion? ☑ Yes ☑ No

Pump ☑ Not Installed Date Installed
Manufacturer's name GOULD Model number 10EX07412 HP 0.75 Volts 230
Length of drop Pipe 54 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

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 | 153235 | Printed 9/10/2008
HE-01205-07

Minnesota Unique Well No.
206709

County Ramsey
Quad New Brighton
Quad ID 119C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/14/1991
Update Date 05/06/2005
Received Date

Well Name TURTLE LAKE ELM. SCH.
Township Range Dir Section Subsections Elevation
30 23 W 3 DDDACB Elevation Method
905 ft.
7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
429 ft.	429 ft.	12/02/1958

Drilling Method Cable Tool

Drilling Fluid
--

Well Hydrofractured? ☑ Yes ☑ No
From Ft. to Ft.

Well Address

NEW BRIGHTON MN

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
10 in. to 167 ft.	lbs./ft.	6 in. to 429 ft.
6 in. to 301 ft.	lbs./ft.	

Open Hole from 301 ft. to 429 ft.

Screen NO Make Type

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
SAND	BROWN		0	14
SANDY CLAY	BROWN		14	21
CLAY & STONE	BROWN		21	53
SANDY CLAY	BROWN		53	71
SAND	TAN		71	83
SAND & GRAVEL	TAN		83	107
GRAVEL & DOLOMITE MIX	YELLOW		107	126
SHALE	WHITE		126	127
SANDSTONE	YELLOW		127	131
BROKEN SHAKOPEE & SANDSTONE			131	166
DOLOMITE & SHAKOPEE	PINK		166	228
SHALE	YELLOW		228	231
JORDAN SANDSTONE	GRAY		231	232
JORDAN & SANDROCK	GRAY		232	255
ST. LAWRENCE SHALE	YELLOW		255	290
ST. LAWRENCE SHALE	YELLOW		290	301
ST. LAWRENCE SHALE	DK. GRY		301	343
ST. LAWRENCE SHALE	DK. GRY		343	364
SANDROCK	GRAY		364	425
SHALE	GREEN		425	429

Static Water Level
25 ft from Land surface Date Measured 12/02/1958

PUMPING LEVEL (below land surface)
30 ft. after hrs. pumping 130 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 8-24-2001.
LOGGED INTERVAL FROM 0-231 FT. IS QUESTIONABLE HAVE TO RELY ON DRILL LOG.
WELL SEALED 08-28-2001 BY 71015
ORIGINAL USE PS - PUBLIC SUPPLY/NON-COMMUNITY

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 08/24/2001
System UTM - Nad83, Zone15, Meters
X: 488307 Y: 4995089

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 Prairie Du Chien Group
Last Strat Franconia
Aquifer St.Lawrence-Franconia
Depth to Bedrock 131 ft.

Well Contractor Certification

Renner E.H. Well	71015	RENNER, E.
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report | 206709 | Printed 9/10/2008 HE-01205-07

Minnesota Unique Well No.
428527

County Ramsey
Quad New Brighton
Quad ID 119C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 05/20/1991
Update Date 08/23/1991
Received Date

Well Name BLANCHETTE, ROBERT
Township Range Dir Section Subsections Elevation
30 23 W 2 CDCCBB Elevation Method 900 ft. 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
88 ft.	88 ft.	05/06/1987

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 0 ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 84 ft.	lbs./ft.	

Open Hole from ft. to ft

Screen YES Make JOHNSON Type stainless steel

Diameter	Slot/Gauze	Length	Set Between
2.5	18	6	82 ft. and 88 ft.

Geological Material	Color	Hardness	From	To
CLAY			0	65
GRAVEL			65	80
WATERSAND + GRAVEL			80	88

Static Water Level
25 ft. from Land surface Date Measured 05/06/1987

PUMPING LEVEL (below land surface)
50 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 488797 Y 4995071

Nearest Known Source of Contamination
150 feet S direction type
Well disinfected upon completion? ☑ Yes ☑ No

Pump ☑ Not Installed Date Installed
Manufacturer's name RED JACKET Model number 50CN1 HP 0.5 Volts 110
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 Sand
Aquifer Quat. Buried Unconf. Aquife
Depth to Bedrock ft

Well Contractor Certification

License Business Name	Lic. Or Reg. No.	Name of Driller
Mccullough & Sons	82054	

County Well Index Online Report 428527 Printed 9/10/2008
HE-01205-07

- **Lanesboro**

SITE SUMMARY

Site Name:	Lanesboro
Fire Department:	Lanesboro Fire Department PO Box 210 Lanesboro, MN 55949
Site Contact:	Asst. Fire Chief Andrew Drake 507-467-2225

Training Location:	City ball field parking lot, County Road 8
Training Location Coordinates (X,Y):	582187.04, 4841518.44
Type of foam used in training:	AFFF: Aqua Eco stick AR-AFFF: Historic use, unsure of brand Class A: Aqua Eco stick
Foam training frequency:	Bi-annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Ground
Annual foam use:	AFFF: Less than 5 gallons Class A: Less than 5 gallons
Nearest surface water:	South Branch of the Root River located less than 1/8 mile east
Nearest wetland:	Less than 1/8 mile north and east
Karst Area:	Site is located in an active karst area.
Nearest water well:	1/4 to 1/3 mile north-northeast
Nearest Wellhead Protection Area:	More than 1 mile
Nearest Source Water Assessment Area:	Less than 1/4 mile
SITE RANKING:	**18**

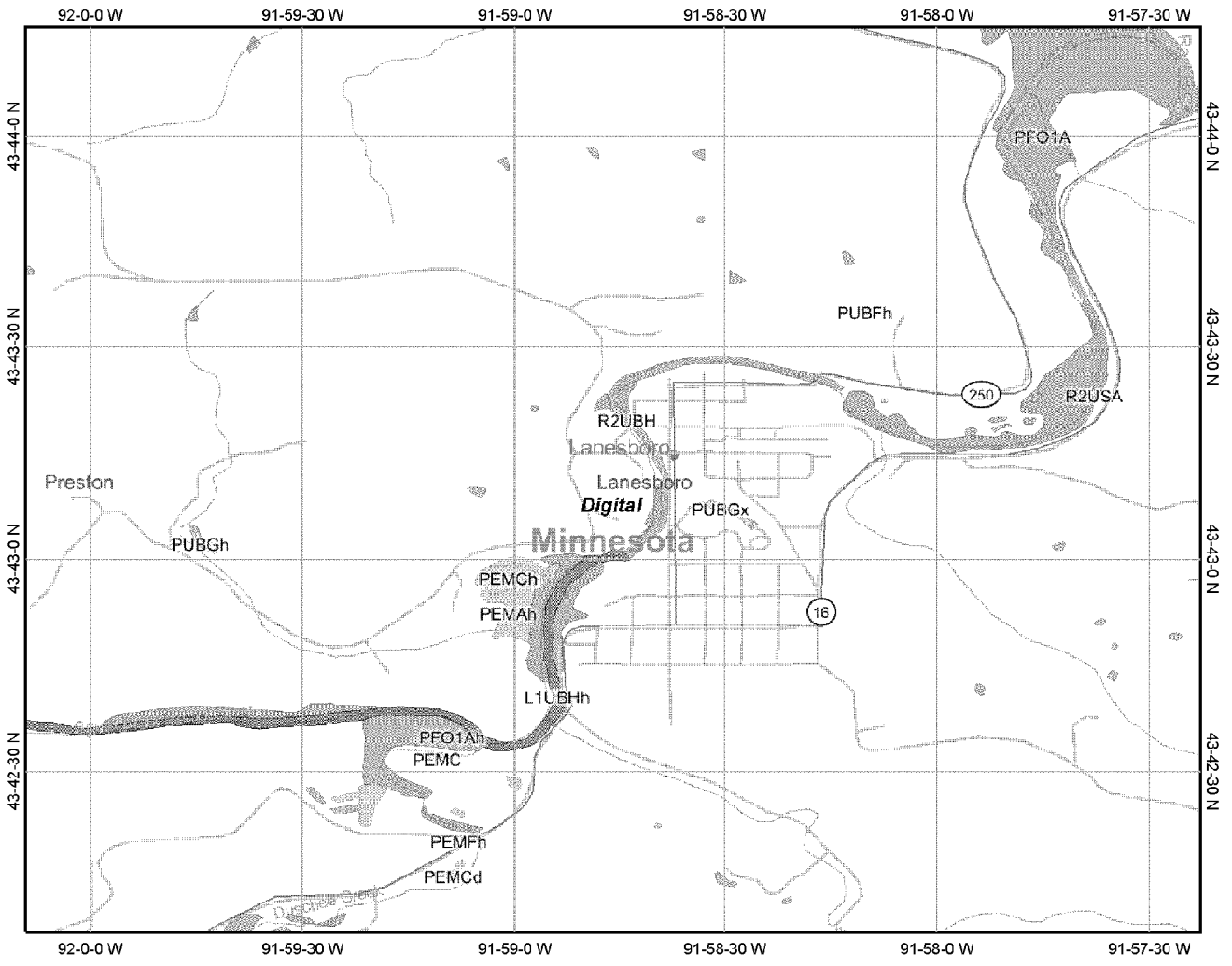
LANESBORO CWI Well Map

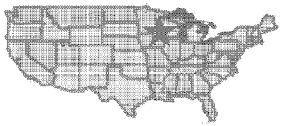


STATE_02827268

2233.0456

Lanesboro 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

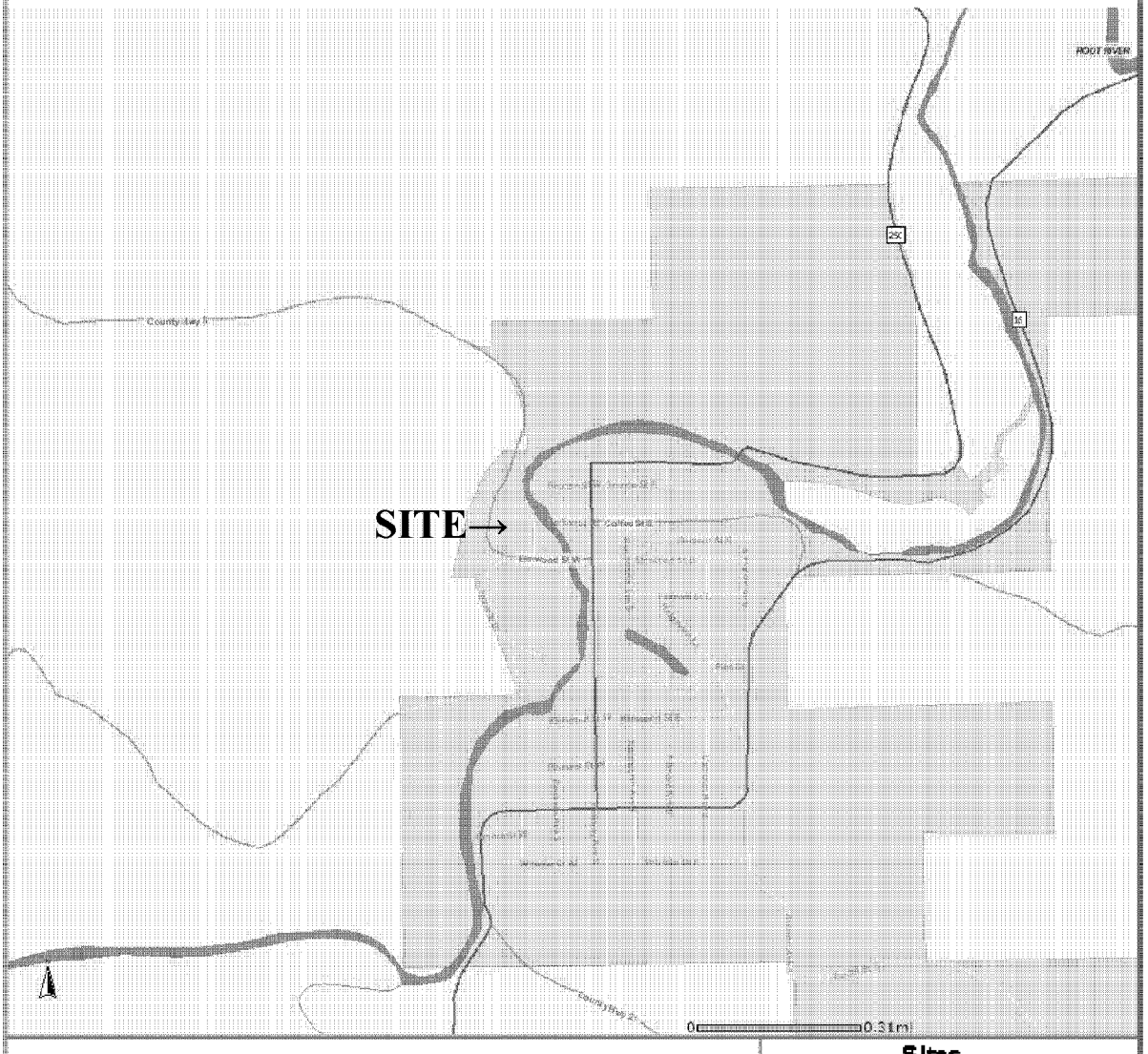
Map center: 43° 43' 11" N, 91° 58' 46" W

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2233.0457

STATE_02827269

Lanesboro *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_02827270

2233.0458

Minnesota Unique Well No.
147039

County Fillmore
Quad Lanesboro
Quad ID 4B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 12/20/1991
Update Date 11/21/1994
Received Date

Well Name FORSTRUM, ELMER
Township Range Dir Section Subsections Elevation 831 ft.
103 9 W 18 CCBBDA Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
105 ft.	105 ft.	04/21/1978

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 Welded Drive Shoe? ☑ Yes ☑ No Above/Below 1 ft.

Casing Diameter	Weight	Hole Diameter
8 in. to 44 ft.	lbs./ft.	
4 in. to 59 ft.	lbs./ft.	

Open Hole from 59 ft. to 105 ft.

Screen NO Make Type

Diameter	Slot/Gauze	Length	Set Between

Well Address

LANESBORO MN

Geological Material	Color	Hardness	From	To
DRIFT	VARIED	SOFT	0	42
SANDSTONE	RED	SOFT	42	105

Static Water Level
24 ft from Land surface Date Measured 04/2?/1979

PUMPING LEVEL (below land surface)
24 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 59 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: 583085 Y: 4841269

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 Jordan
Last Strat Jordan
Aquifer Jordan
Depth to Bedrock 42 ft.

County Well Index Online Report 147039 Printed 9/24/2008
HE-01205-07

Minnesota Unique Well No.
713841

County Fillmore
Quad Lanesboro
Quad ID 4B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 0
Update Date 06/05/2008
Received Date 11/09/2004

Well Name AMDAHL, ORVIL
Township Range Dir Section Subsections Elevation 1095 ft.
103 10 W 13 ACCAAB Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
580 ft.	580 ft.	09/14/2004

Drilling Method Non-specified Rotary

Drilling Fluid Foam

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 50 ft.	lbs./ft.	12 in. to 50 ft.
4 in. to 512 ft.	lbs./ft.	8 in. to 512 ft.

Open Hole from 512 ft. to 580 ft.

Screen NO Make Type

Diameter	Slot/Gauze	Length	Set Between

Well Address
RR 2 BOX 133
LANESBORO MN 55949

Geological Material	Color	Hardness	From	To
DRIFT	BROWN	SOFT	0	50
LIMESTONE	TAN	MEDIUM	50	72
SANDSTONE	BROWN	SOFT	72	182
LIMESTONE	BLUE	MEDIUM	182	252
LIMESTONE	TAN	MEDIUM	252	320
SANDSTONE	BROWN	SOFT	320	420
LIMESTONE	BLUE	MEDIUM	420	452
LIMESTONE			452	492
SHALE/SANDSTONE			492	512
SHALE	GREEN	MEDIUM	512	580

Static Water Level
310 ft from Land surface Date Measured 09/14/2004

PUMPING LEVEL (below land surface)
320 ft. after 2 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: Pearock	from 182 to 320 ft.	8.25	yrds.
Grout Material: Neat Cement	from to 50 ft.	0.25	yrds.
Grout Material: Neat Cement	from to 512 ft.	10.75	yrds.

Located Minnesota Department of Health
Unique Number Verification N/A
System UTM - Nad83, Zone15, Meters

Method GPS SA Off (averaged)
Date N/A
X: 582353 Y: 4841921

Nearest Known Source of Contamination
50 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.	55079	SANDERS, T.
License Business Name	Lic. Or Reg. No.	Name of Driller

First Bedrock
Last Strat
Aquifer
Depth to Bedrock ft.

County Well Index Online Report | 713841 | Printed 9/24/2008 HE-01205-07

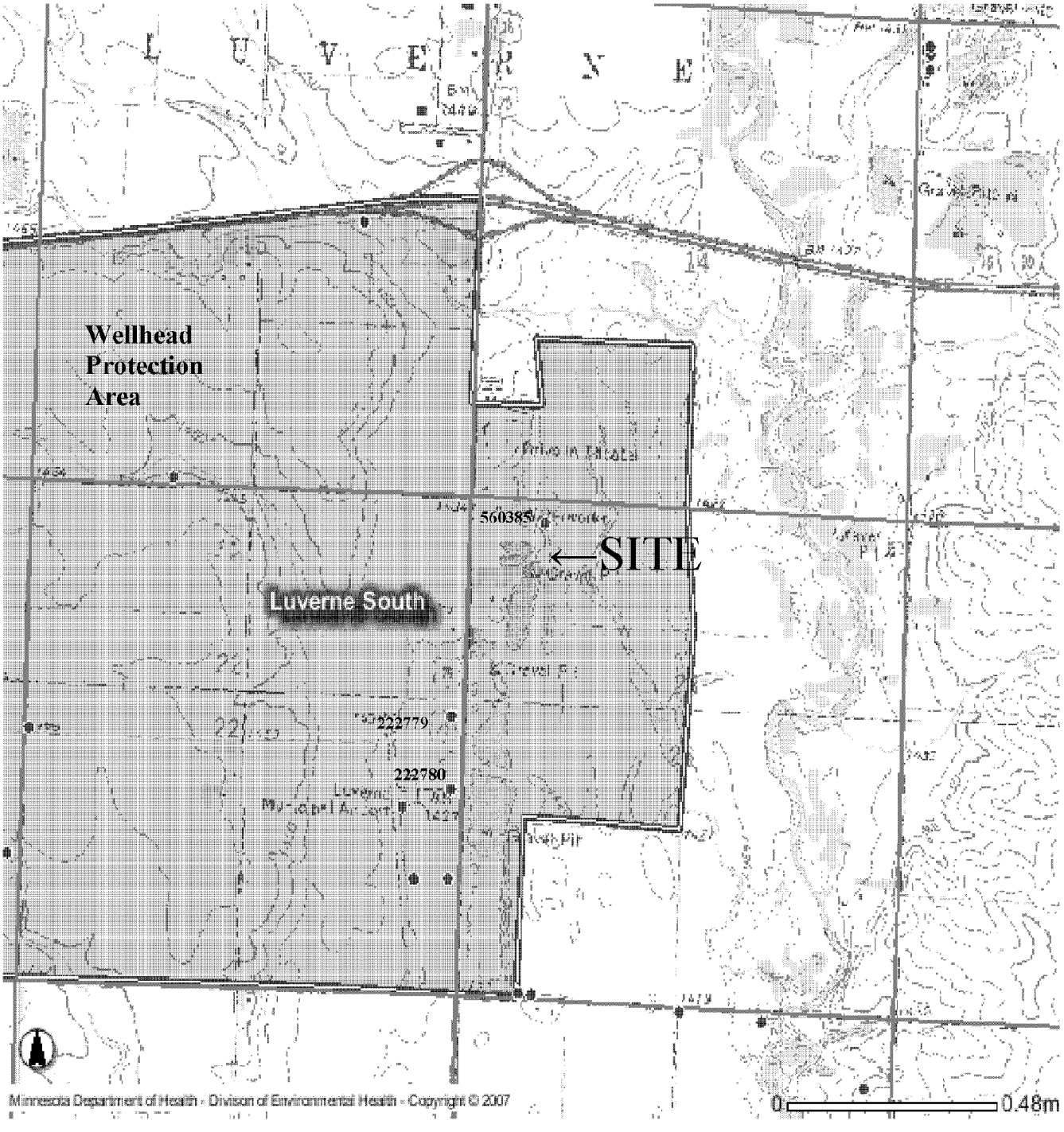
- **Luverne**

SITE SUMMARY

Site Name:	Luverne
Fire Department:	Luverne Fire Department PO Box 659 Luverne, MN 56156
Site Contact:	Don Deutsch, Fire Chief 507-283-9141 (work)

Training Location:	Tree dump, 1/2 mile south of the city on Hwy 75, on the east side of road.
Training Location Coordinates (X,Y):	240970.28, 4835779.61
Type of foam used in training:	AR-AFFF: Not sure of current brand; used to use 3M-brand. Class A: Not sure of brand.
Foam training frequency:	Quarterly
Foam use per training event:	5 gallons
Spent foam destination:	Ground. After training, the city uses a payloader to pick up the dirt/gravel where the foam was used, for disposal at the city dump.
Annual foam use:	AR-AFFF: 5 gallons Class A: 20 to 30 gallons
Nearest surface water:	A pond stream less than 1/4 mile south
Nearest wetland:	Less than 1/4 mile east
Karst Area:	Site is not located in a karst area
Nearest water well:	Less than 1/4 mile to the north
Nearest Wellhead Protection Area:	Training site located within WPA
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**28**

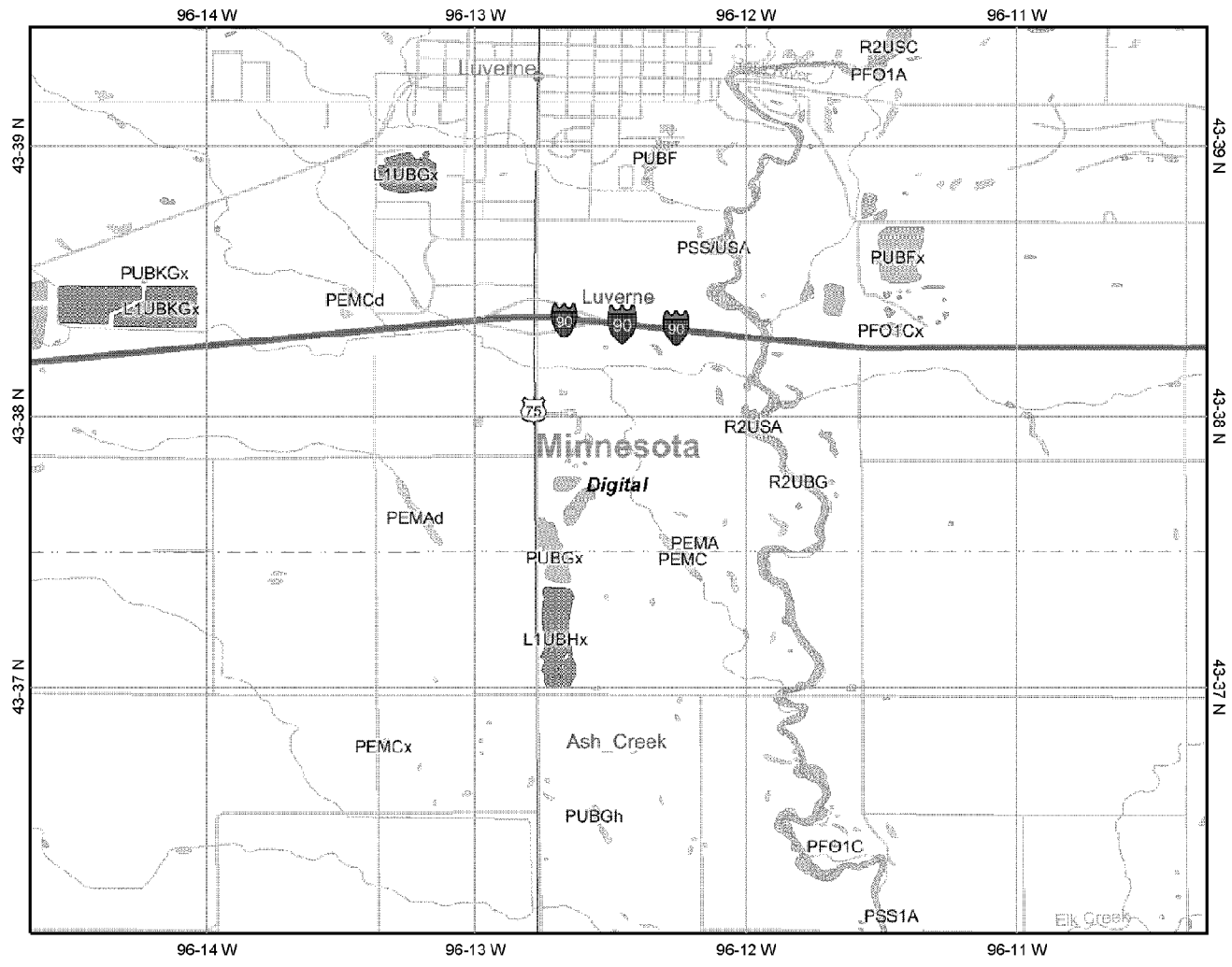
LUVERNE CWI Well Map



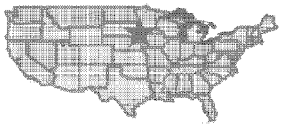
STATE_02827275

2233.0463

Luverne Wetland Map



Map center: 43° 37' 46" N, 96° 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

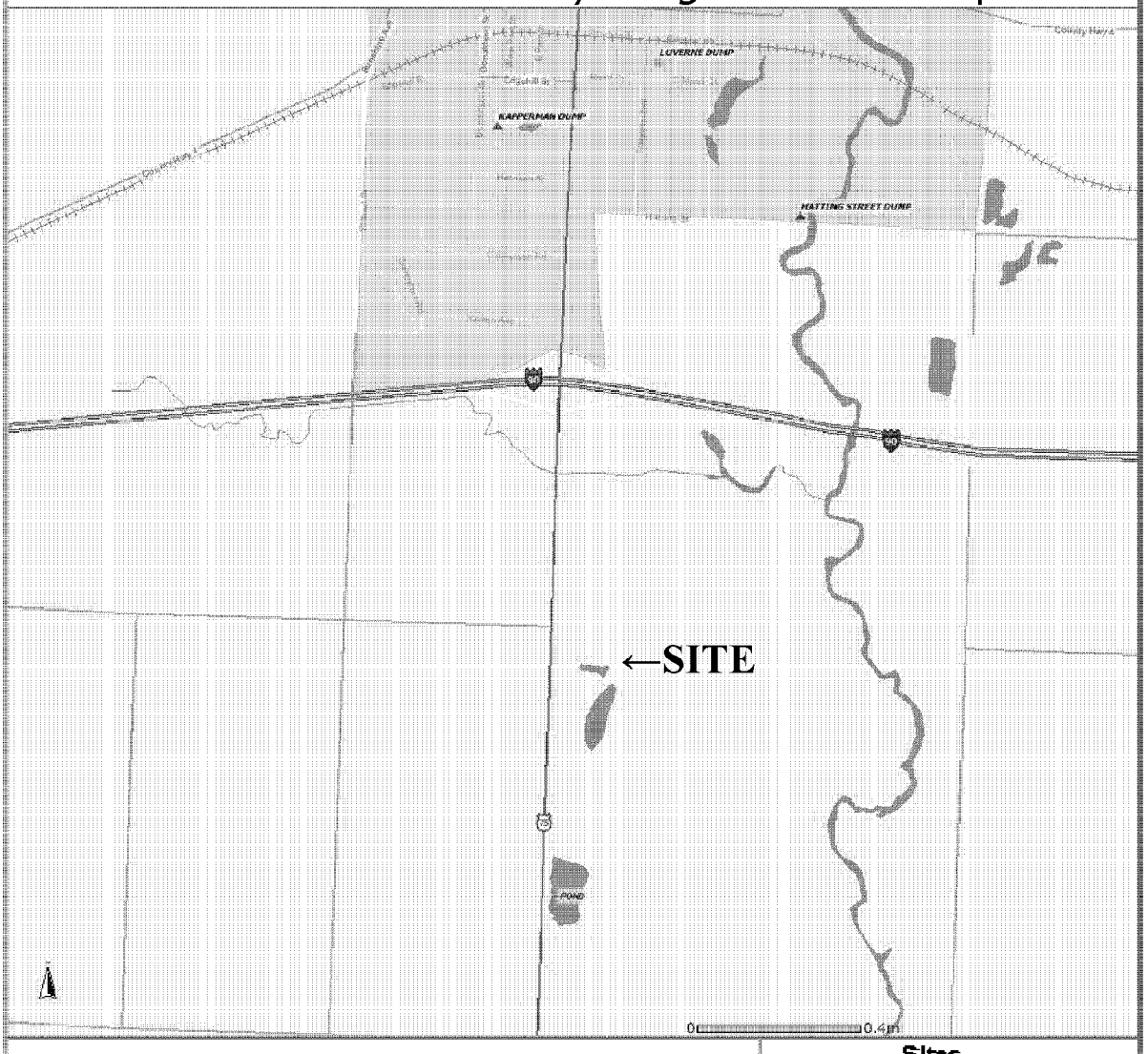
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2233.0464

STATE_02827276

Luverne *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

Minnesota Unique Well No.
222779

County Rock
Quad Ash Creek
Quad ID 21C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/17/1988
Update Date 05/06/2005
Received Date

Well Name LUVERNE 9
Township Range Dir Section Subsections Elevation 1424 ft.
102 45 W 22 ADDDAB Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
55 ft.	55 ft.	00/00/1962

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 ft.

Casing Diameter	Weight	Hole Diameter
12 in. to 38 ft.	lbs./ft.	

Well Address

LUVERNE MN

Open Hole from ft. to ft

Screen YES Make Type brass

Diameter	Slot/Gauze	Length	Set Between
12		17	38 ft. and 55 ft.

Geological Material	Color	Hardness	From	To
TOPSOIL			0	7
GRAVEL			7	21
SANDY CLAY			21	30
SAND & GRAVEL			30	55

Static Water Level
9 ft. from Land surface Date Measured 00/00/1962

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
WELL SEALED 05-29-1992 BY 91353
ORIGINAL USE MU - MUNICIPAL

Grouting Information Well Grouted? ☑ Yes ☑ No

Grout Material: from 0 to 28 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: 240728 Y: 4835176

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 225 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

First Bedrock
Last Strat Sand & larger
Aquifer Qual. Water Table Aquifer
Depth to Bedrock ft.

United States Geological Survey	USGS	
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report | 222779 | Printed 9/10/2008 HE-01205-07

Minnesota Unique Well No.
222780

County Rock
Quad Ash Creek
Quad ID 21C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/17/1988
Update Date 05/06/2005
Received Date

Well Name LUVERNE 10
Township Range Dir Section Subsections Elevation
102 45 W 22 DAADDB Elevation Method
1423 ft.
Calc from DEM (USGS 7.5 m n or equiv.)

Well Depth	Depth Completed	Date Well Completed
42 ft.	42 ft.	00/00/1962

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 1 ft.

Casing Diameter	Weight	Hole Diameter
12 in. to 17 ft.	lbs./ft.	
10 in. to 34 ft.	lbs./ft.	

Open Hole from ft. to ft

Screen YES Make Type stainless steel

Diameter	Slot/Gauze	Length	Set Between
12	125	8	17 ft. and 25 ft.
12	70	8	34 ft. and 42 ft.

Well Address
LUVERNE MN

Geological Material	Color	Hardness	From	To
TOPSOIL			0	7
SAND & GRAVEL			7	25
CLAY	BLUE		25	28
SAND			28	42

Static Water Level
9 ft. from Land surface Date Measured 00/00/1962

PUMPING LEVEL (below land surface)
ft. after hrs. pumping 225 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 #10
WELL SEALED 04-11-2003 BY 91686
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: 240726 Y: 4834941

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

Abandoned Wells Does property have any not in 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 — License Business Name
USGS — 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 | 222780 | Printed 9/10/2008
HE-01205-07

Minnesota Unique Well No.
560385

County Rock
Quad Luverne
Quad ID 21B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 07/10/2001
Update Date 08/20/2008
Received Date 05/09/1996

Well Name CITY OF LUVERNE
Township Range Dir Section Subsections Elevation
102 45 W 23 BBACAB Elevation Method
1425 ft.
Calc from DEM (USGS 7.5 m n or equiv.)

Well Depth	Depth Completed	Date Well Completed
13 ft.	12 ft.	10/03/1995

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 9.5 ft.	lbs./ft.	6 in. to 13 ft.

Open Hole from ft. to ft

Screen YES Make JOHNSON Type plastic

Diameter	Slot/Gauze	Length	Set Between
2	10	3	9.5 ft. and 12.5 ft.

Geological Material	Color	Hardness	From	To
CLAY	BLACK		0	5
CLAY W/ SAND	GRAY		5	7
MUDDY SAND	GRAY		7	8
MUDDY COARSE GRAVEL W/ CLAY LAYERS	GRY/BRN		8	13

Static Water Level
4.5 ft. from Land surface Date Measured 10/03/1995

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 HEAD COMPLETION - 7' LONG, 3' ABOVE GRADE

Grouting Information Well Grouted? ☑ Yes ☑ No

Grout Material: Neat Cement	from 0 to 3 ft.	2 bags
Grout Material: Bentonite	from 3 to 7 ft.	1 bags

Located Minnesota Department of Health
Unique Number Verification N/A
System UTM - Nad83, Zone15, Meters
Method Digitization (Screen) - Map (1:24,000)
Date N/A
X: 241075 Y: 4835801

Nearest Known Source of Contamination
20 feet E 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

First Bedrock
Last Strat
Aquifer
Depth to Bedrock ft

Well Contractor Certification

U.s. Geol Survey	M0113	ROSEMORE D
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report 560385 Printed 9/10/2008
HE-01205-07

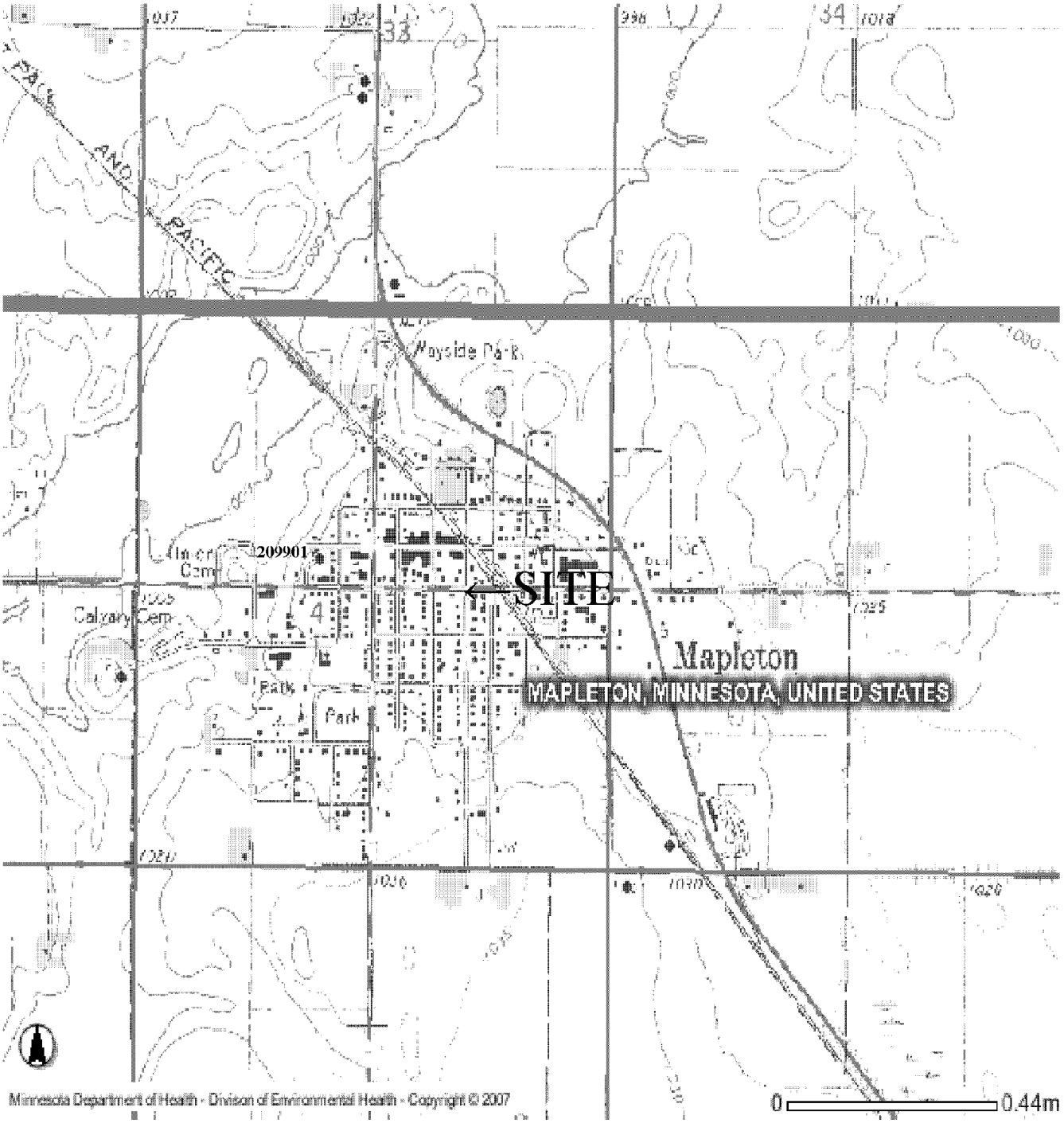
- **Mapleton**

SITE SUMMARY

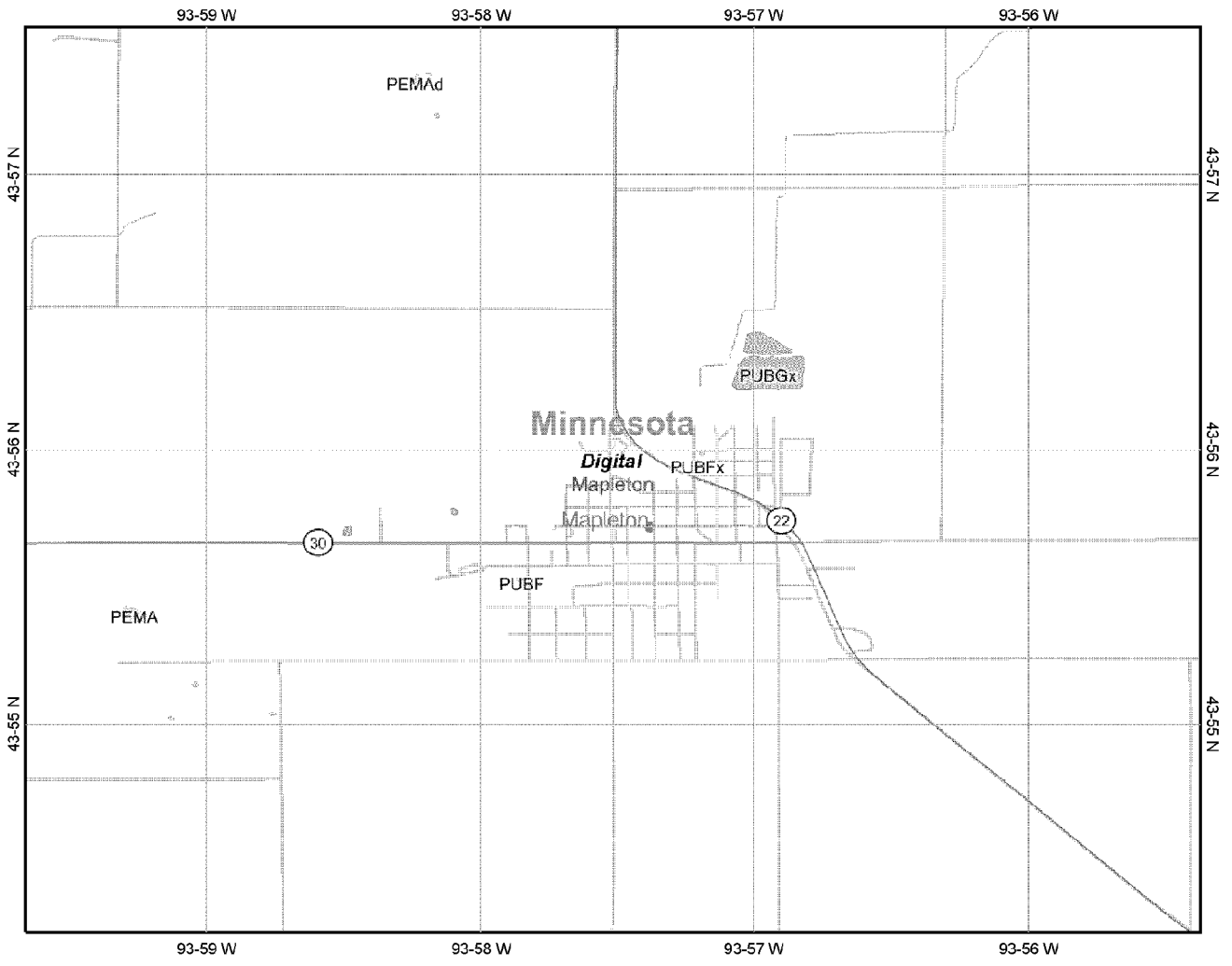
Site Name:	Mapleton
Fire Department:	Mapleton Fire Department Mapleton, MN 55065
Site Contact:	Chris Langworthy, Fire Chief 507-524-3341 (home)

Training Location:	Street in front of fire station, 103 3rd Ave. NE
Training Location Coordinates (X,Y):	423391.62, 4864319.73
Type of foam used in training:	AFFF: Class B foam stick (unsure of brand) Class A: Class A foam stick (unsure of brand) Other: POK Quick Stik foam (historical use)
Foam training frequency:	Bi-annually
Foam use per training event:	Less than 5 gallons (1/2 stick)
Spent foam destination:	Storm sewer
Annual foam use:	AFFF: Less than 5 gallons (3 sticks) Class A: Less than 5 gallons (3 sticks)
Nearest surface water:	Lake at Wayside Park, 1/4 to 1/2 mile north
Nearest wetland:	More than 1 mile
Karst Area:	Training site is located in a covered karst area
Nearest water well:	1/4 to 1/3 mile west
Nearest Wellhead Protection Area:	More than 1 mile
Nearest Source Water Assessment Area:	Site is located in a SWAA
SITE RANKING:	**11**

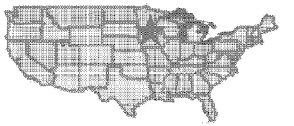
MAPLETON CWI Well Map



Mapleton Wetland Map



Map center: 43° 55' 54" N, 93° 57' 31" 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

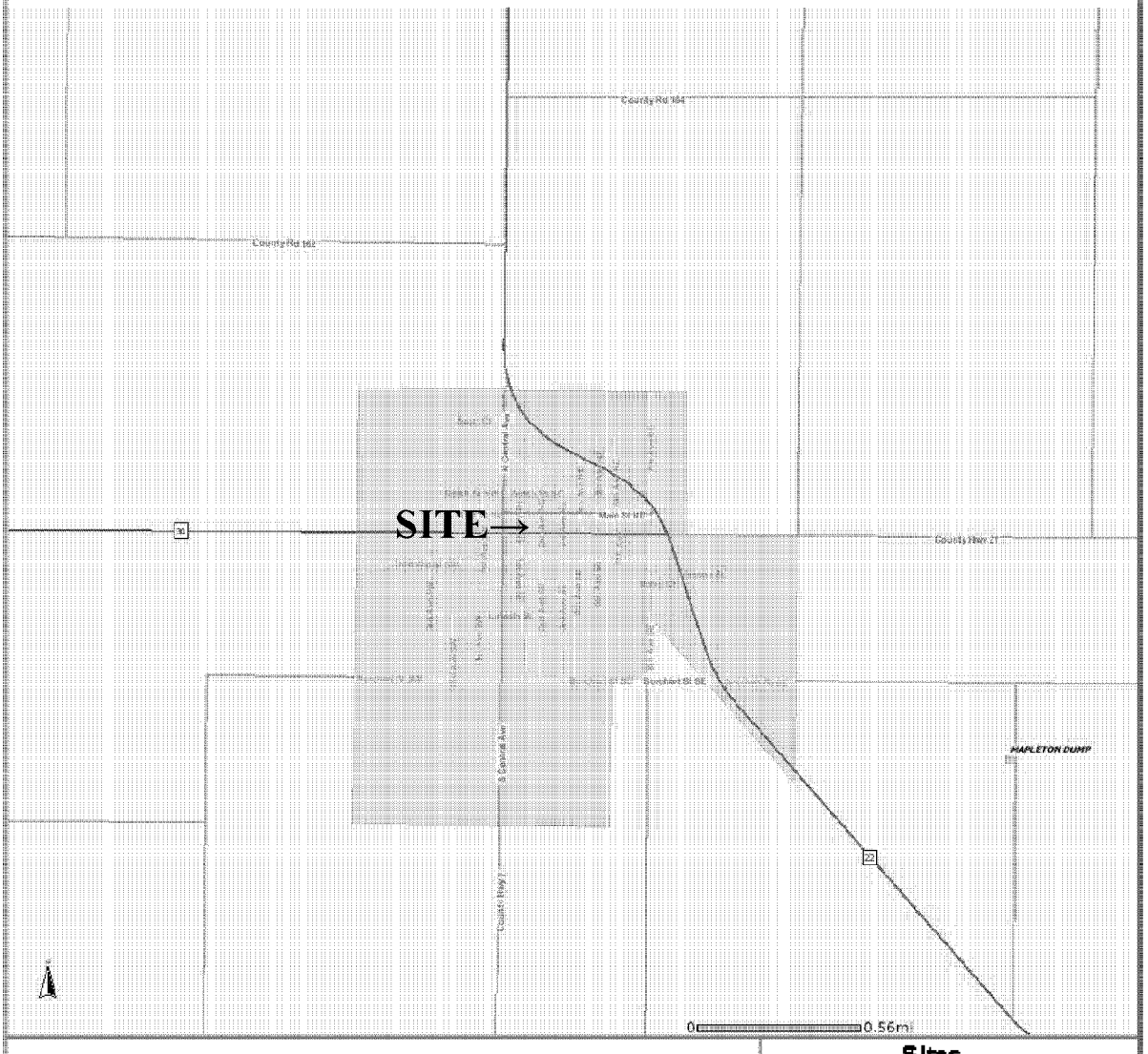
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2233.0472

STATE_02827284

Mapleton *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.
209901

County Blue Earth
Quad Mapleton
Quad ID 34B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 06/17/1997
Update Date 06/20/1997
Received Date

Well Name MAPLETON CREAMERY
Township Range Dir Section Subsections Elevation 1031 ft.
105 26 W 4 BDDBCC Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
186 ft.	186 ft.	11/30/1933

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
6 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
CLAY	YELLOW		0	20
CLAY & SAND	BLUE		20	140
LIMESTONE	PINK		140	160
LIMESTONE & SANDSTONE BEDS			160	186

Static Water Level
58 ft from Land surface Date Measured 1934

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: 422876 Y: 4864381

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	BERGGREEN
License Business Name	Lic. Or Reg. No.	Name of Driller

First Bedrock Prairie Du Chien Group
Last Strat Prairie Du Chien Group
Aquifer Prairie Du Chien Group
Depth to Bedrock 140 ft.

County Well Index Online Report | 209901 | Printed 9/24/2008 HE-01205-07

- **New York Mills**

SITE SUMMARY

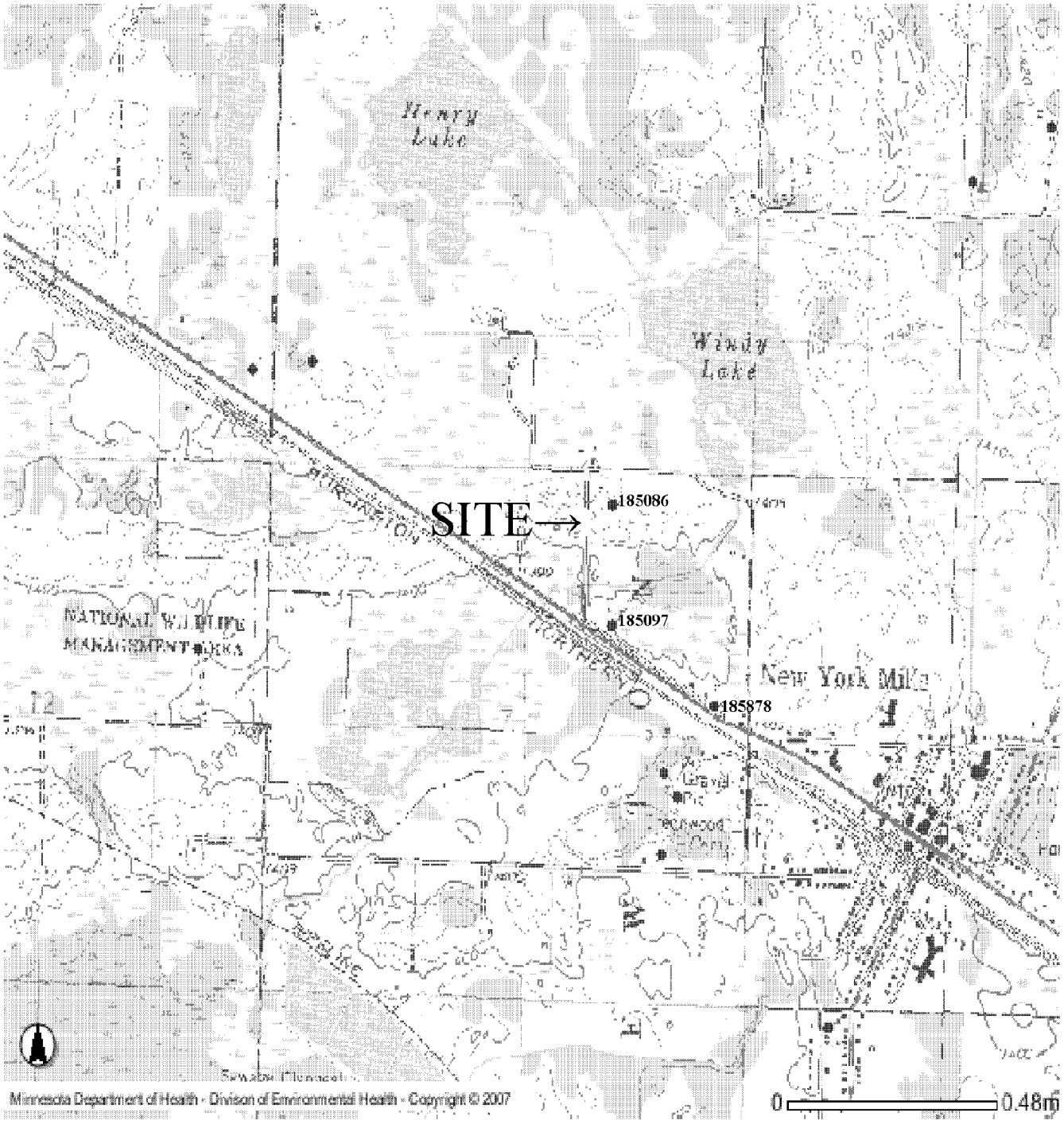
Site Name: New York Mills

Fire Department: New York Mills Fire Department
PO Box 172
New York Mills, MN 56567

Site Contact: Reed Jacobson, Fire Chief
218-639-2787

Training Location:	City utility gravel parking lot, west side of town, between Centennial Dr. W. and Hwy. 10.
Training Location Coordinates (X,Y):	316478.52, 5155304.07
Type of foam used in training:	AFFF: Ansul
Foam training frequency:	About every 3 years, to use up expired foam
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Ground, storm sewer
Annual foam use:	AFFF: 0 gallons Class A: 30 gallons
Nearest surface water:	Less than 1/4 mile to the south and east
Nearest wetland:	Less than 1/4 mile west and east
Karst Area:	Site is not located in a karst area.
Nearest water well:	Less than 1/4 mile north
Nearest Wellhead Protection Area:	More than 1 mile
Nearest Source Water Assessment Area:	Less than 1 mile
SITE RANKING:	**13**

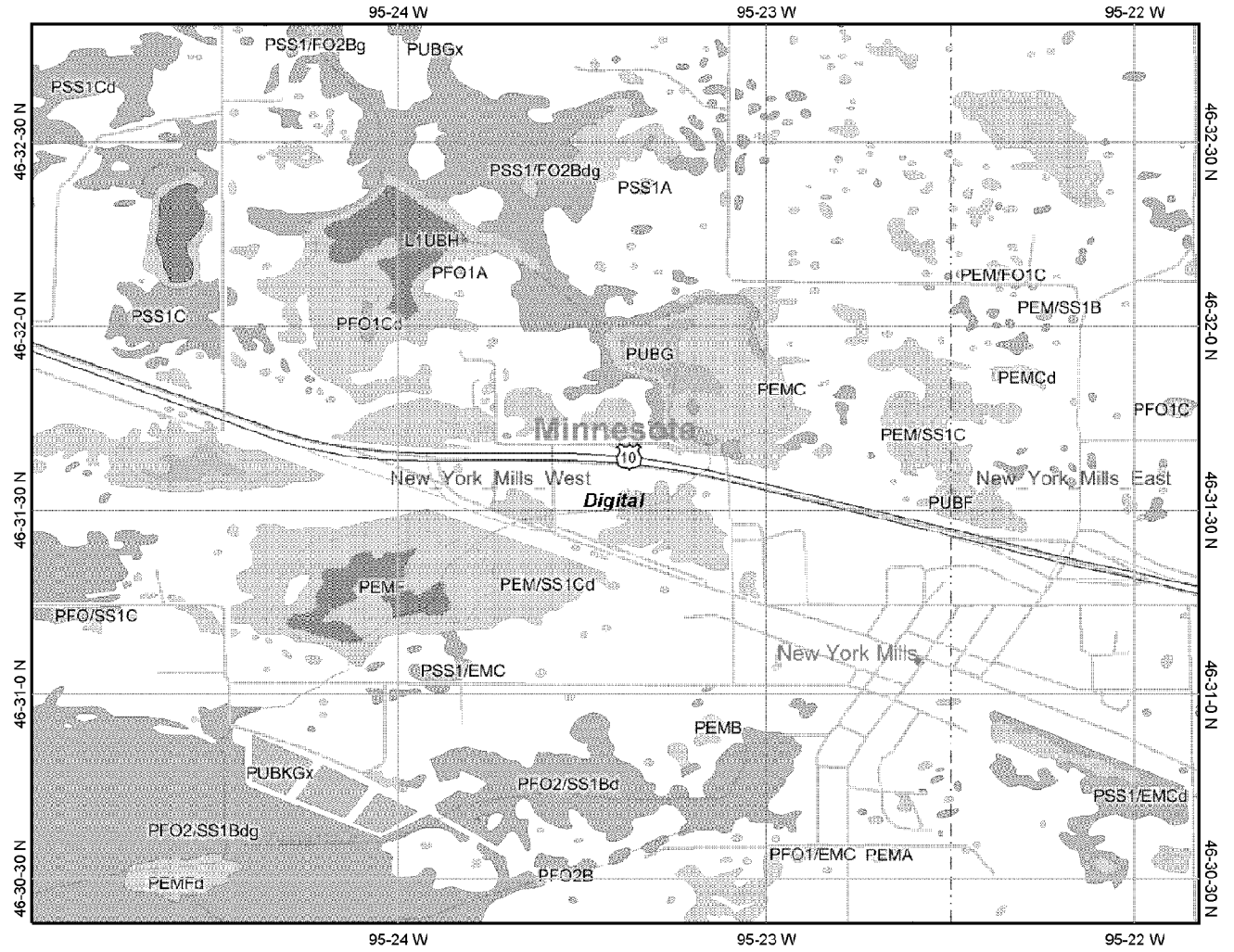
NEW YORK MILLS CWI Well Map



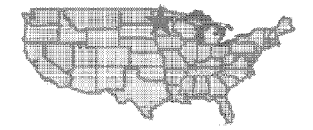
STATE_02827289

2233.0477

New York Mills Wetland Map



Map center: 46° 31' 36" N, 95° 23' 25" 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

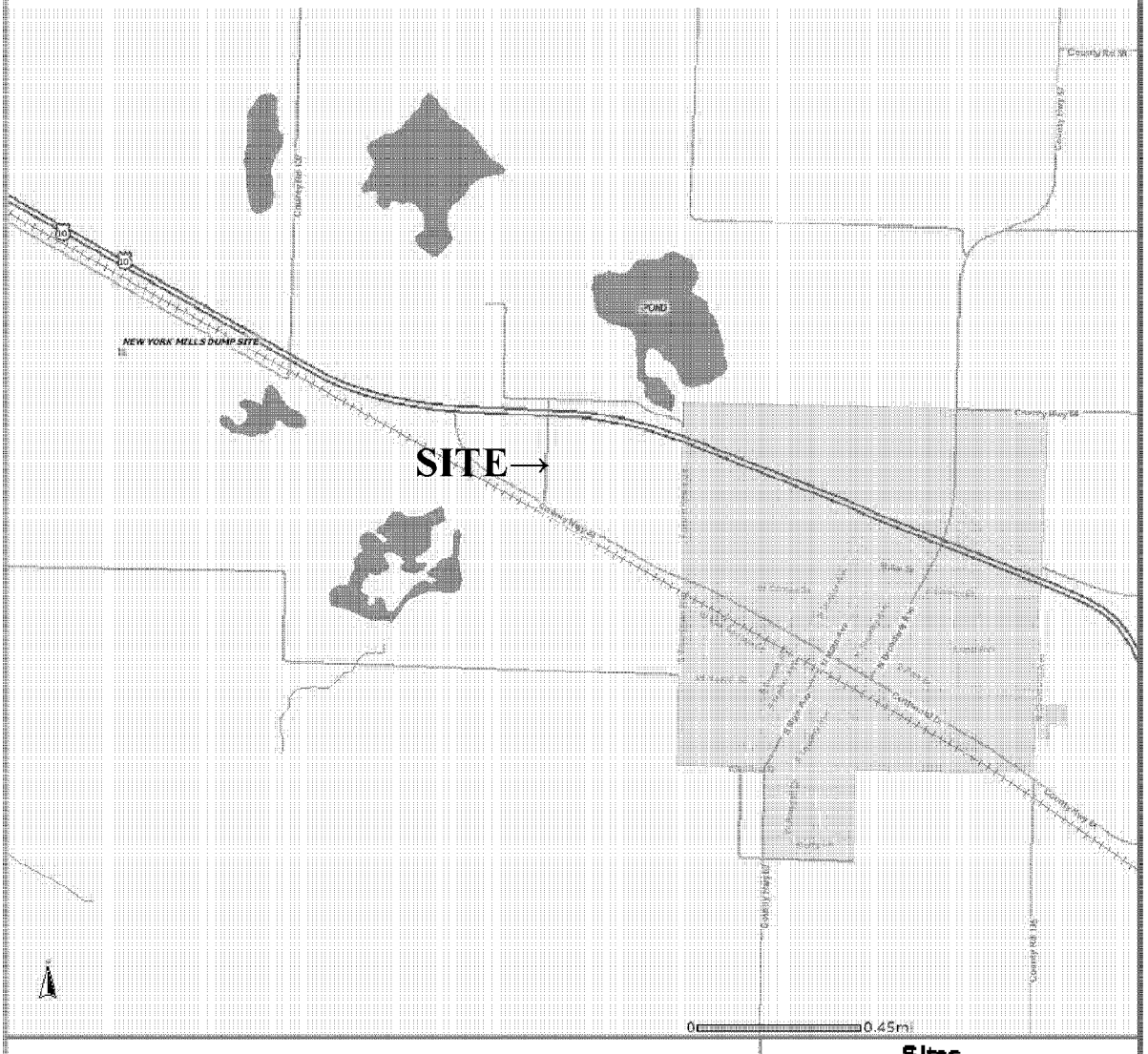
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2233.0478

STATE_02827290

New York Mills *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 T&D Facilities
- RCRA Investigation & Cleanup
- State Assessment

Minnesota Unique Well No.
185086

County Otter Tail
Quad New York Mills West
Quad ID 236C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/17/1988
Update Date 07/31/1998
Received Date

Well Name THOMPSON, JACK

Township	Range	Dir	Section	Subsections	Elevation	Elevation Method
135	37	W	7	ABA	1420 ft.	7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
130 ft.	111 ft.	05/17/1983

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 ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 107 ft.	lbs./ft.	6 in. to 130 ft.

Geological Material	Color	Hardness	From	To
TOPSOIL (DARK)		SOFT	0	1
CLAY	YELLOW	SOFT	1	7
GRAVEL AND STRIPS OF CLAY	YELLOW	SOFT	7	18
CLAY	BLUE	SOFT	18	48
GRAVEL	GRAY	SOFT	48	49
CLAY	BLUE	SOFT	49	84
SAND	GRAY	SOFT	84	85
CLAY	BLUE	SOFT	85	89
SAND	GRAY	SOFT	89	92
CLAY AND STRIPS OF SAND	GRAY	SOFT	92	98
SAND	GRAY	SOFT	98	100
CLAY AND STRIPS OF SAND	GRAY	SOFT	100	103
SAND AND GRAVEL	GRAY	SOFT	103	130

Open Hole from ft. to ft

Screen YES Make JOHNSON Type steel (non-stainless)

Diameter	Slot/Gauze	Length	Set Between
2	12	4	107 ft. and 111 ft.

Static Water Level
28 ft. from Land surface Date Measured 05/17/1983

PUMPING LEVEL (below land surface)
28 ft. after 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 owner
Date N/A

System UTM - Nad83, Zone15, Meters
X: 316586 Y: 5155391

Nearest Known Source of Contamination
__feet __direction __type
Well disinfected upon completion? ☑ Yes ☑ No

Pump ☑ Not Installed Date Installed 05/00/1983
Manufacturer's name JACUZZI Model number 754B HP 0.75 Volts 230
Length of drop Pipe 63 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

First Bedrock
Last Strat Sand & larger-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft

Well Contractor Certification

Cichy R.m. Well Co.	56154	CICHY, E.
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report 185086 Printed 9/12/2008
HE-01205-07

Minnesota Unique Well No.
185097

County Otter Tail
Quad New York Mills West
Quad ID 236C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/17/1988
Update Date 09/03/1998
Received Date

Well Name WALLACE, RON
Township Range Dir Section Subsections Elevation
135 37 W 7 ACAACB Elevation Method
1400 ft.
7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
145 ft.	135 ft.	07/15/1983

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 130 ft.	lbs./ft.	6 in. to 145 ft.

Open Hole from ft. to ft.

Screen YES Make HOWARD SMITH Type stainless steel

Diameter	Slot/Gauze	Length	Set Between
3.8	18	5	130 ft. and 135 ft.

Geological Material	Color	Hardness	From	To
TOP SOIL, FILL, AND DIRT	DARK	SOFT	0	7
COARSE GRAVEL	GRAY	SOFT	7	20
CLAY	BLUE	HARD	20	70
STRIPS OF SAND AND CLAY	GRAY	SOFT	70	79
CLAY	BLUE	HARD	79	104
SAND	GRAY	SOFT	104	105
CLAY	BLUE	HARD	105	108
SAND	GRAY	SOFT	108	109
CLAY	BLUE	SOFT	109	110
FINE SAND	GRAY	SOFT	110	116
CLAY	BLUE	SOFT	116	117
SAND	GRAY	SOFT	117	121
CLAY	BLUE	SOFT	121	122
SAND	GRAY	SOFT	122	125
STRIPS OF SAND AND CLAY	BLUE	SOFT	125	129
SAND	GRAY	SOFT	129	134
CLAY	BLUE	SOFT	134	136
SAND	GRAY	SOFT	136	142
SANDY CLAY	BLUE	SOFT	142	145

Static Water Level
10 ft. from Land surface Date Measured 07/15/1983

PUMPING LEVEL (below land surface)
10 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 Information from reighbor
Date N/A

System UTM - Nad83, Zone15, Meters
X: 316584 Y: 5155024

Nearest Known Source of Contamination
__feet __direction __type
Well disinfected upon completion? ☑ Yes ☑ No

Pump ☑ Not Installed Date Installed 08/00/1983
Manufacturer's name AERMOTOR Model number SD-12-50 HP 0.5 Volts 230
Length of drop Pipe 59 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

First Bedrock
Last Strat Clay & sand-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

Cichy R.m. Well Co.	56134	CICHY, E.
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report | 185097 | Printed 9/12/2008
HE-01205-07

Minnesota Unique Well No.
185878

County Otter Tail
Quad New York Mills West
Quad ID 236C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/17/1988
Update Date 09/04/1998
Received Date

Well Name CICHY, RAYMOND
Township Range Dir Section Subsections Elevation
135 37 W 7 ADDBDD Elevation Method 1405 ft. 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
160 ft.	115 ft.	198204

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 -0.5 ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 110 ft.	lbs./ft.	4 in. to 115 ft.

Well Address

NEW YORK MILLS MN

Geological Material	Color	Hardness	From	To
TOP SOIL	DARK	SOFT	0	1
CLAY	YELLOW	SOFT	1	8
SAND AND WATER	YELLOW	SOFT	8	18
CLAY	GRAY	SOFT	18	23
CLAY	BLUE	SOFT	23	40
CLAY AND ROCKS	BLUE	HARD	40	85
CLAY	BLUE	SOFT	85	111
SAND AND WATER	GRAY	SOFT	111	114
CLAY AND SAND	GRAY	SOFT	114	117
SAND AND WATER	GRAY	SOFT	117	120
CLAY	BLUE	SOFT	120	160

Open Hole from ft. to ft

Screen YES Make HOWARD SMITH Type stainless steel

Diameter	Slot/Gauze	Length	Set Between
3.8	20	5	110 ft. and 115 ft.

Static Water Level
11 ft. from Land surface Date Measured 06/05/1982

PUMPING LEVEL (below land surface)
11 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 Name on mailbox
Date N/A

System UTM - Nad83, Zone15, Meters
X: 316956 Y: 5154778

Nearest Known Source of Contamination
__feet __direction __type
Well disinfected upon completion? ☑ Yes ☑ No

Pump ☑ Not Installed Date Installed 06/05/1982
Manufacturer's name AERMOTOR Model number SA-75-M HP 0.75 Volts 230
Length of drop Pipe 63 ft. Capacity 32 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 Clay-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft

Well Contractor Certification

Cichy R.m. Well Co.	56154	CICHY, R.
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report 185878 Printed 9/12/2008
HE-01205-07

- **Newfolden**

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, 1st Street
Training Location Coordinates (X,Y):	253527.42, 5361252.2
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 approximately 1/4 mile southwest
Nearest wetland:	Less than 1 mile to the southwest
Karst Area:	Site is not located in a karst area.
Nearest water well:	1/2 to 1 mile east
Nearest Wellhead Protection Area:	More than 1 mile
Nearest Source Water Assessment Area:	Site located within a SWAA
SITE RANKING:	**12**

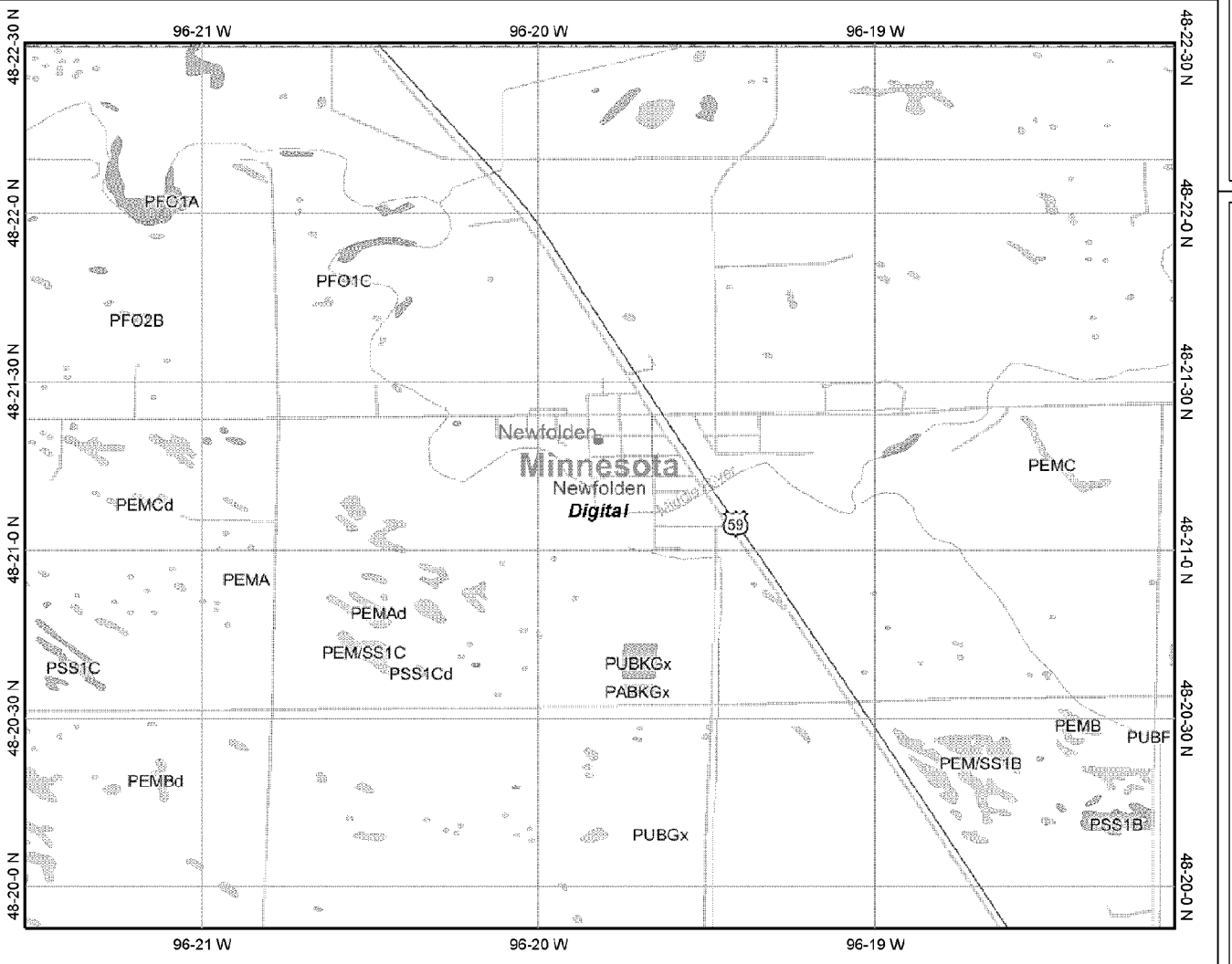
`NEWFOLDEN CWI Well Map

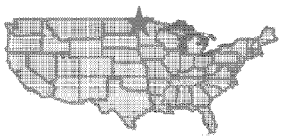


STATE_02827297

2233.0485

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

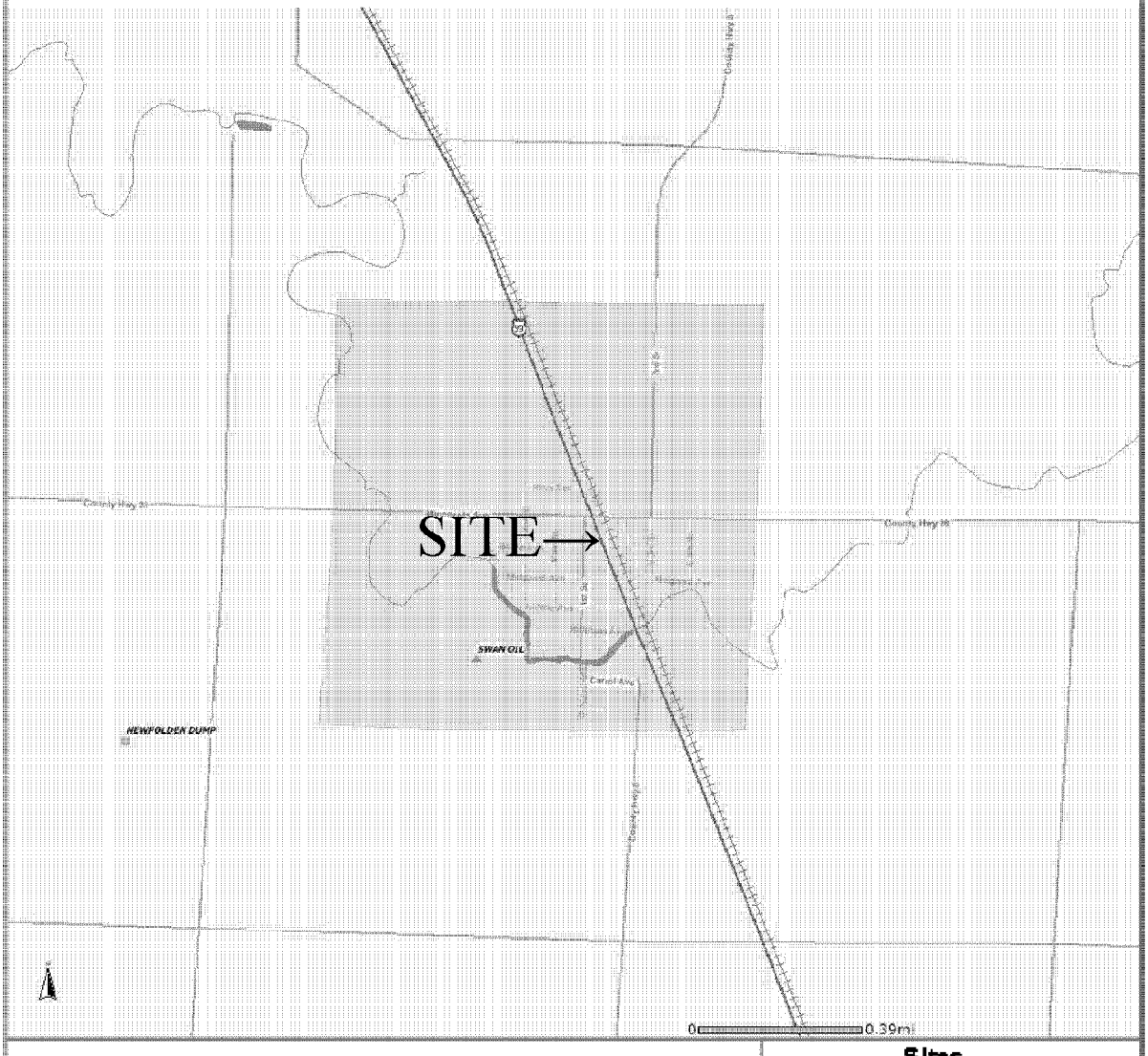
Map center: 48° 21' 12" N, 96° 19' 49" W

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2233.0486

STATE_02827298

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_02827299

2233.0487

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	Elevation Method	1096 ft. Calc from DEM (USGS 7.5 m n 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

Grouting Information Well Grouted? ☑ Yes ☑ No

Grout Material: High solids bentonite from to 40 ft. 1 bags

Located Minnesota Department of Health
Unique Number Verification N/A
System UTM - Nad83, Zone15, Meters

Method GPS SA Off (averaged)
Date 12/22/2005
X: 254434 Y: 5361240

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

First Bedrock
Last Strat
Aquifer
Depth to Bedrock ft

Well Contractor Certification

Davidson Well	45664	DAVIDSON, J.
License Business Name	Lic. Or Reg. No.	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	Elevation Method
156	44	W	8	BBBBDC	1093 ft.	Calc from DEM (USGS 7.5 m n 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.	

Well Address
330TH ST NW
NEWFOLDEN MN 56738

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.

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
Unique Number Verification N/A
System UTM - Nad83, Zone15, Meters

Method GPS SA Off (averaged)
Date 12/22/2005
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

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

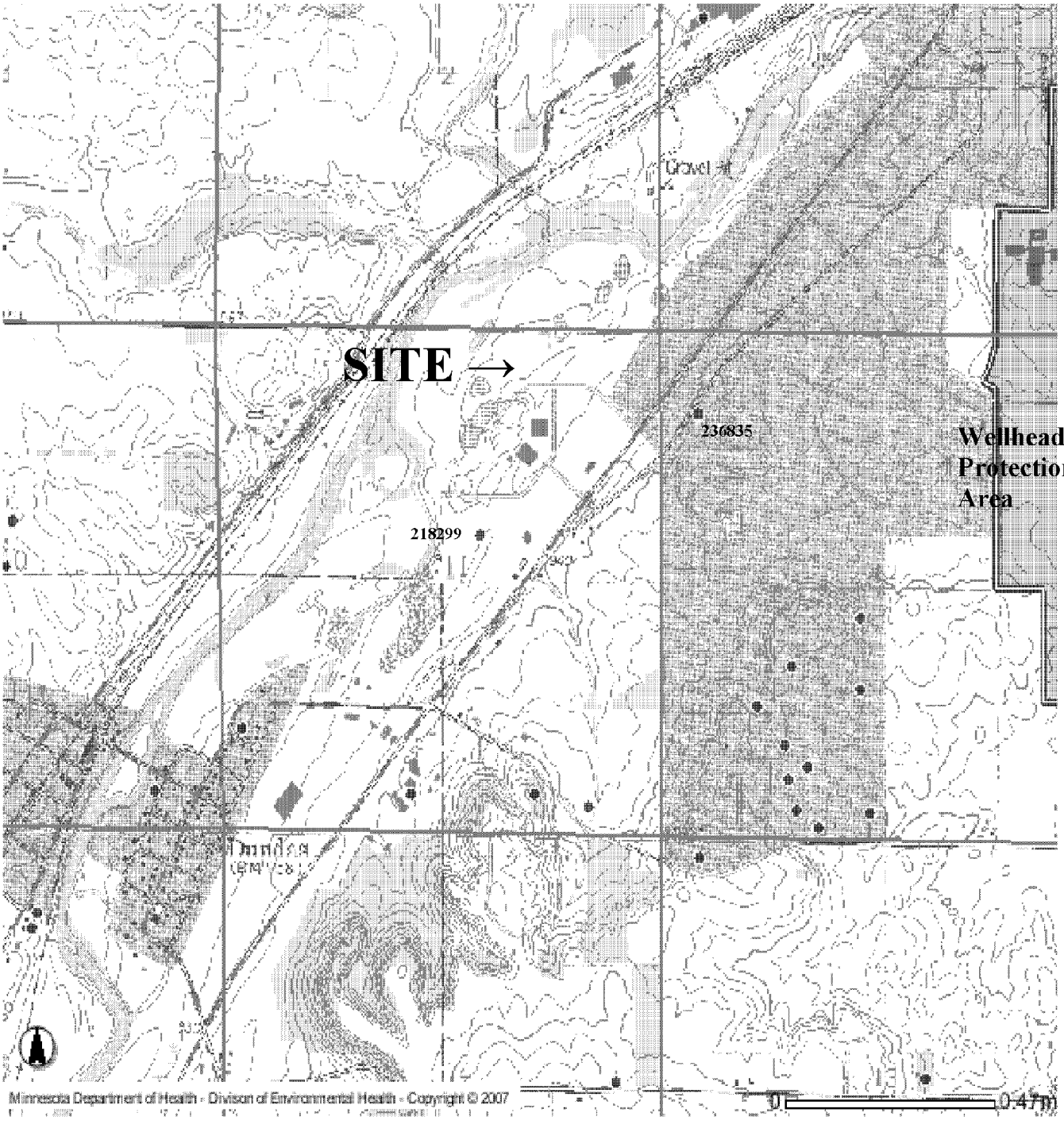
- **Northfield**

SITE SUMMARY

Site Name:	Northfield
Fire Department:	Northfield Fire Department 300 W. 5th Street Northfield, MN 55057
Site Contact:	Mitchell Dewar, Captain/Training Officer 507-271-4566 mdewar@ci.northfield.mn.us

Training Location:	City street shop, 1710 Riverview Drive, Northfield
Training Location Coordinates (X,Y):	485121.54, 4920959.49
Type of foam used in training:	AFFF: 3M ATC 3%-6%
Foam training frequency:	Approximately every 5 years; haven't trained with foam in 10 to 15 years
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Storm sewer
Annual foam use:	AFFF: 20 gallons over the last 30 years Class A: 300 gallons over the last 10 years
Nearest surface water:	Cannon River located less than 1/4 mile west
Nearest wetland:	Less than 1/4 mile west
Karst Area:	Site is located in an active karst area
Nearest water well:	Approximately 1/4 mile south
Nearest Wellhead Protection Area:	Approximately 1 mile
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**25**

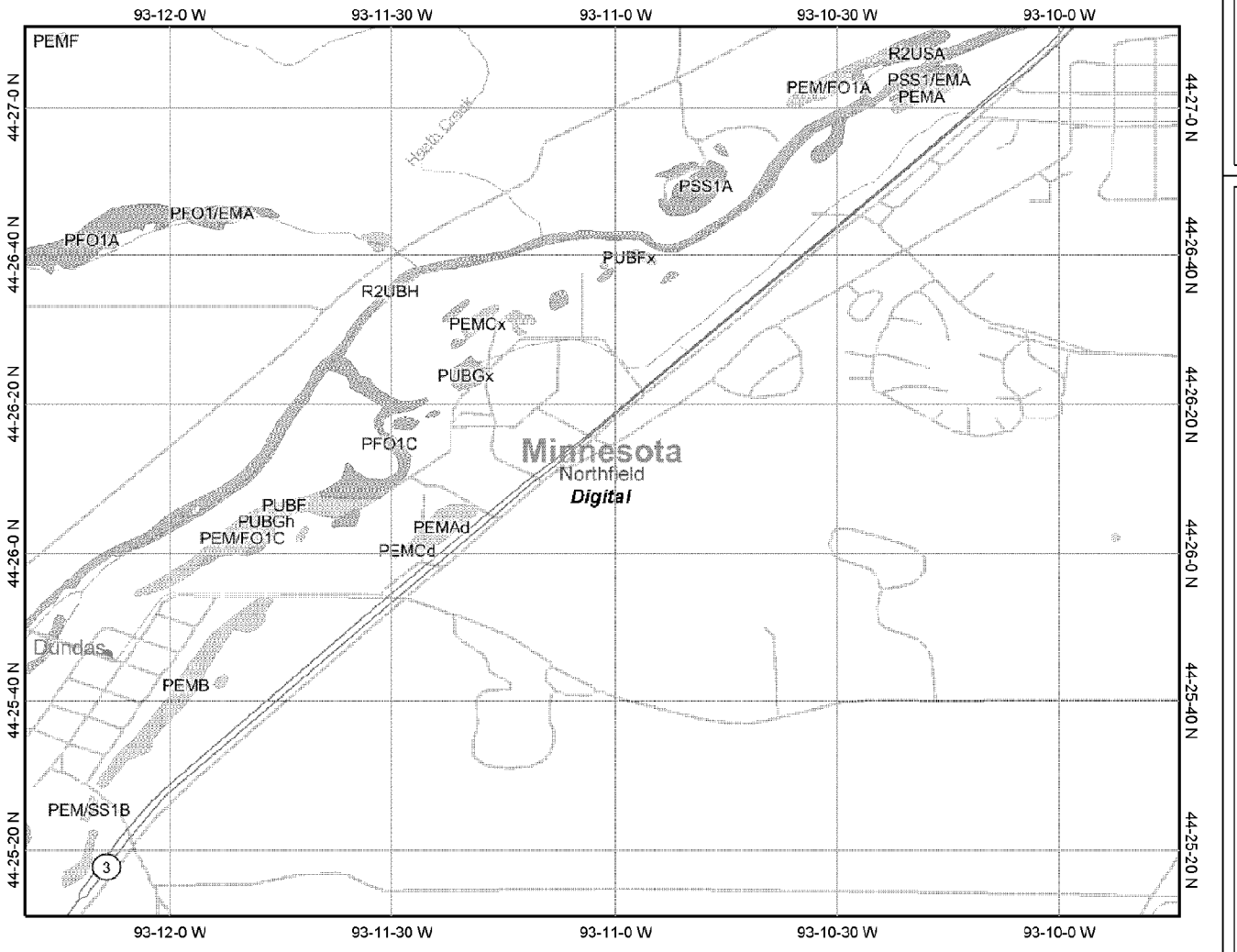
NORTHFIELD CWI Well Map



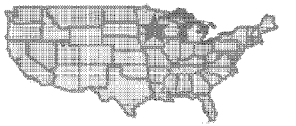
STATE_02827304

2233.0492

Northfield



Map center: 44° 26' 11" N, 93° 11' 2" 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

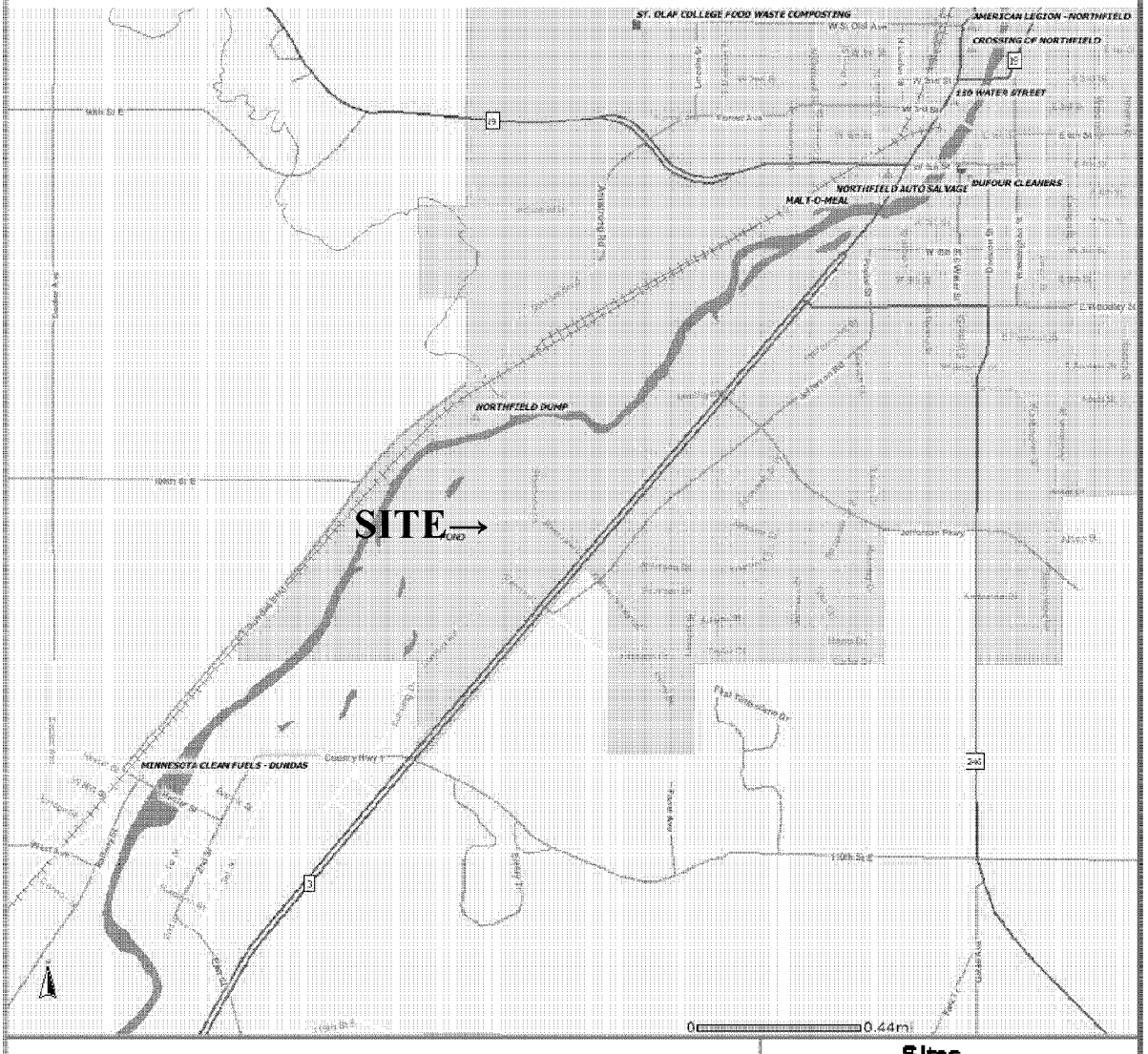
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2233.0493

STATE_02827305

Northfield *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_02827306

2233.0494

Minnesota Unique Well No.
218299

County Rice
Quad Northfield
Quad ID 71B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/17/1988
Update Date 04/23/1992
Received Date

Well Name COLLEGE CITY BEVERAGE
Township Range Dir Section Subsections Elevation
111 20 W 11 ACCAAC Elevation Method
931 ft.
7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
73 ft.	73 ft.	09/25/1971

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 Make Type

Diameter	Slot/Gauze	Length	Set Between

Well Address

NORTHFIELD MN

Geological Material	Color	Hardness	From	To
DRIFT			0	5
LIMESTONE			5	73

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 Name on mailbox
Date N/A

System UTM - Nad83, Zone15, Meters
X: 484942 Y: 4920392

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 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

First Bedrock Prairie Du Chien Group
Last Strat Prairie Du Chien Group
Aquifer Prairie Du Chien Group
Depth to Bedrock 5 ft.

License Business Name | Lic. Or Reg. No. | Name of Driller

County Well Index Online Report | 218299 | Printed 9/16/2008
HE-01205-07

Minnesota Unique Well No.
236835

County Rice
Quad Northfield
Quad ID 71B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/17/1988
Update Date 10/27/1992
Received Date

Well Name BARFAS, LUKES
Township Range Dir Section Subsections Elevation 954 ft.
111 20 W 12 BBCACB Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
48 ft.	48 ft.	06/21/1966

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 21 ft.	lbs./ft.	

Open Hole from 21 ft. to 48 ft.

Screen NO Make Type

Diameter	Slot/Gauze	Length	Set Between

Well Address
HWY 3 S
NORTHFIELD MN

Geological Material	Color	Hardness	From	To
MOSTLY CLAY			0	17
LIMESTONE			17	48

Static Water Level
15 ft from Land surface Date Measured 06/2?/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
HOUSE ACROSS FROM NORTHFIELD BOWLING.

Grouting Information Well Grouted? ☑ Yes ☑ No

Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Information from neighbor Date 06/29/2004
System UTM - Nad83, Zone15, Meters X: 485730 Y: 4920776

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 Prairie Du Chien Group
Last Strat Prairie Du Chien Group
Aquifer Prairie Du Chien Group
Depth to Bedrock 17 ft.

Hartmann Well Co	40174	
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report | 236835 | Printed 9/16/2008 HE-01205-07

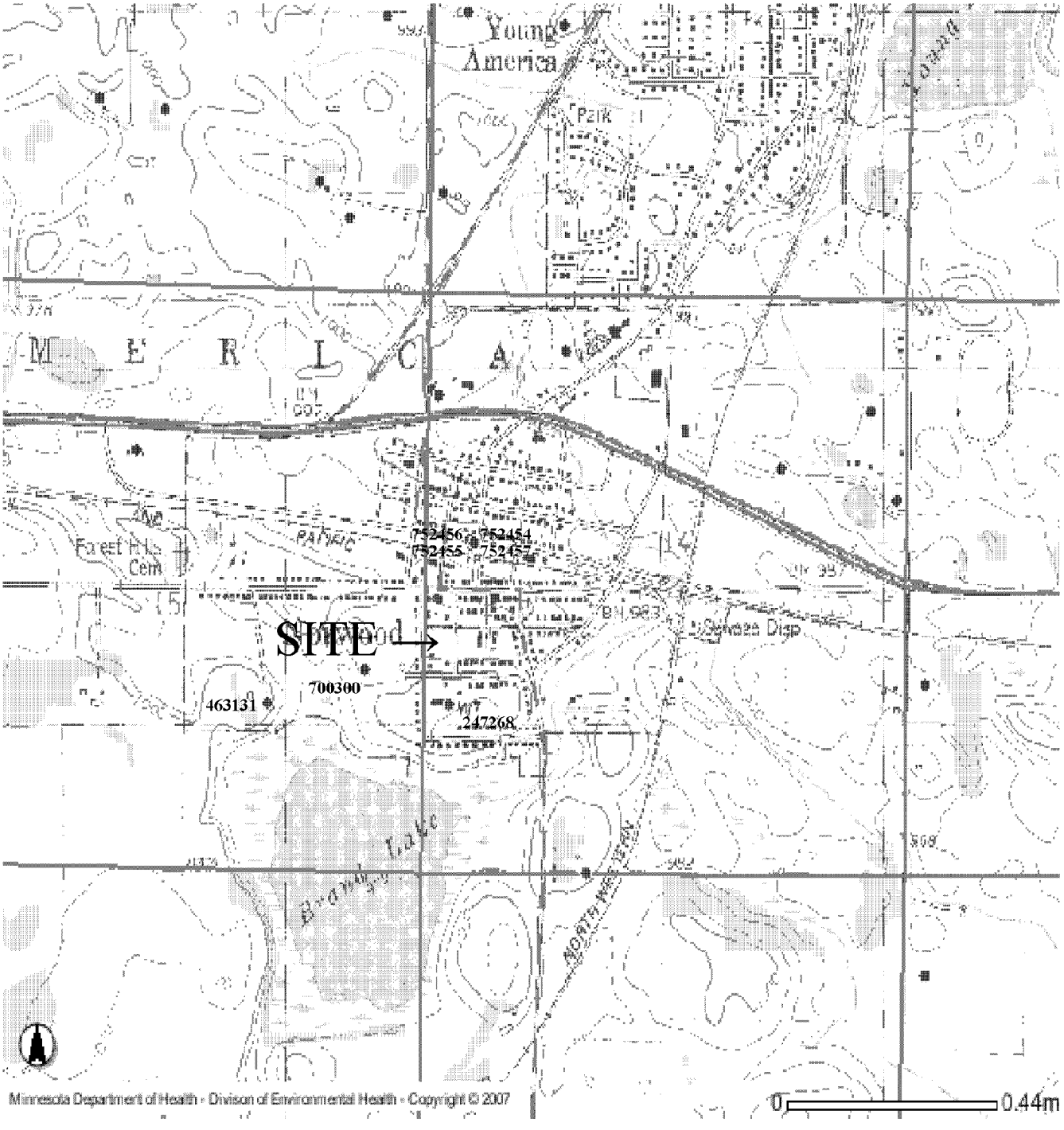
- **Norwood Young America**

SITE SUMMARY

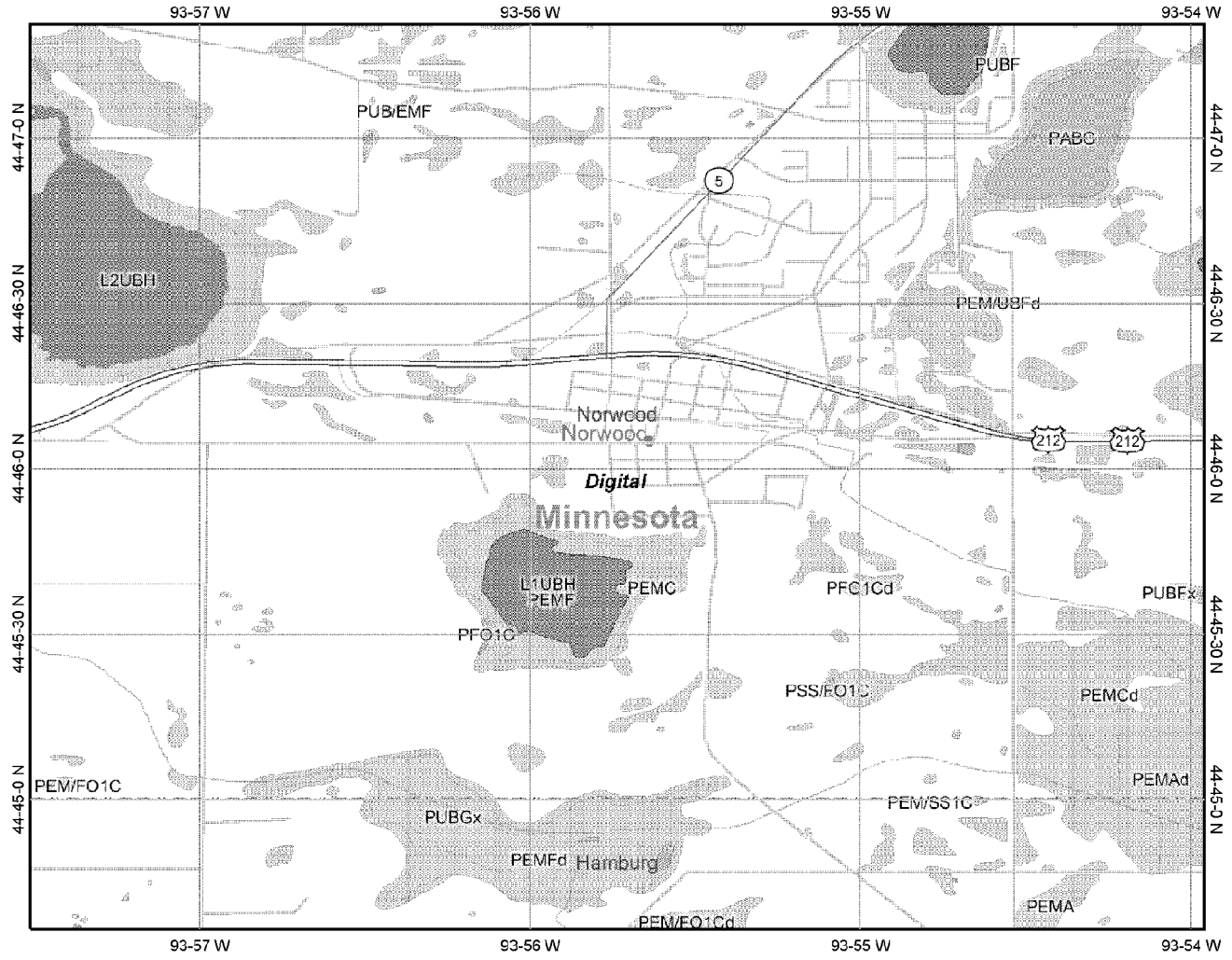
Site Name:	Norwood
Fire Department:	Norwood-Young America Fire Department PO Box 85 327 W. Elm Street Norwood, MN 55368
Site Contact:	Brent Aretz, Fire Chief 952-467-2797 (home)

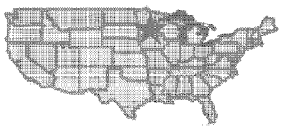
Training Location:	Vacant lot owned by the city, intersection of South Street and Brush Street, Norwood
Training Location Coordinates (X,Y):	426573.08, 4957440.52
Type of foam used in training:	AFFF: Angus Hi-Combat
Foam training frequency:	Annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Ground
Annual foam use:	AFFF: 5 gallons
Nearest surface water:	Brandy Lake, 1/4 to 1/3 mile south
Nearest wetland:	Approximately 1/4 mile south
Karst Area:	Training site is located in or near a covered karst area
Nearest water well:	Less than 1/4 mile south
Nearest Wellhead Protection Area:	More than 1 mile
Nearest Source Water Assessment Area:	Training site located in a SWAA
SITE RANKING:	**16**

NORWOOD CWI Well Map



Norwood 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: 1:35,529

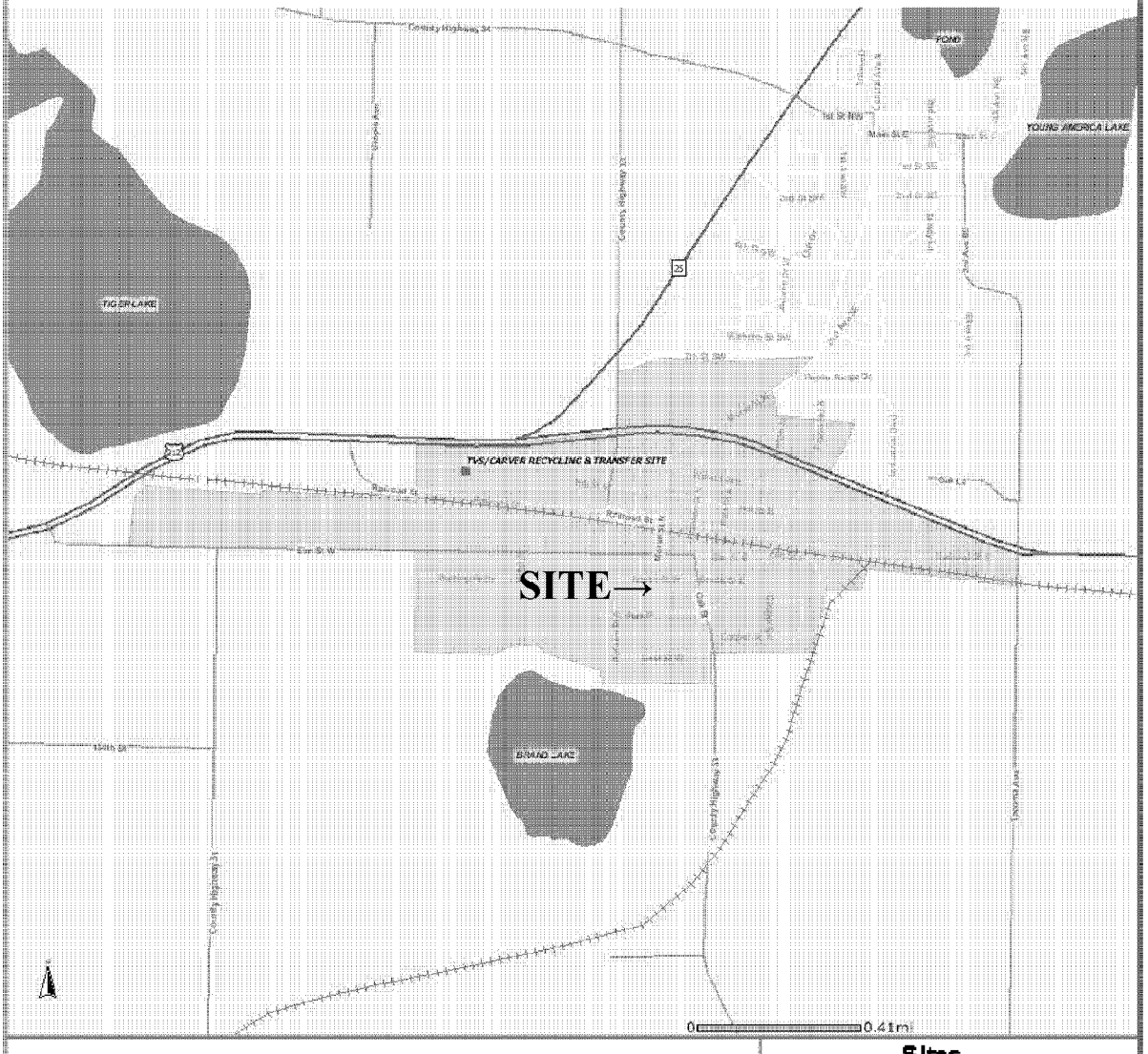
Map center: 44° 45' 58" N, 93° 55' 44" W

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2233.0500

STATE_02827312

Norwood *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 T&D Facilities
- RCRA Investigation & Cleanup
- State Assessment

STATE_02827313

2233.0501

Minnesota Unique Well No.
247268

County Carver
Quad Norwood
Quad ID 106C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 06/23/1992
Update Date 02/19/2008
Received Date

Well Name NORWOOD TEST WELL
Township Range Dir Section Subsections Elevation
115 26 W 14 CBCCAC Elevation Method 1008 ft. 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
620 ft.	620 ft.	00/00/1988

Drilling Method Non-specified Rotary

Well Address
NORWOOD MN 55368

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

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)

Geological Material	Color	Hardness	From	To
CLAY	BLACK		0	3
CLAY	TAN		3	30
CLAY	GRAY		30	50
CLAY WITH SAND	GRAY		50	110
SAND & GRAVEL	GRAY		110	115
ROCKY CLAY	GRAY		115	158
SAND & GRAVEL	GRAY	SOFT	158	165
CLAY	GRAY	HARD	165	170
ROCKY CLAY	GRAY		170	210
CLAY	GRAY		210	220
ROCKY GRAVEL	GRAY		220	223
CLAY	GRAY		223	237
ROCKY SAND & GRAVEL	GRAY		237	240
CLAY	GRAY		240	250
SAND & GRAVEL	TAN		250	257
CLAY	TAN		257	305
SAND & GRAVEL	TAN		305	315
CLAY WITH ROCKS	ORANGE		315	320
SHALE	WHITE		320	335
ROCK	BROWN	HARD	335	345
ROCK	GREEN	SFT-HRD	345	350
SHALE	GREEN	SOFT	350	365
SANDROCK	BROWN	HARD	365	373
SANDSTONE OFFWHITE			373	440
SANDSTONE SHALE OFF WHITE		HARD	440	450
SANDSTONE SHALE	BLU/WHT	HARD	450	460
SANDSTONE & SHALE BLUE RED PINK			460	505
SANDSTONE & SHALE	GREEN	HARD	505	520
SANDSTONE & SHALE	GRN/PNK	HARD	520	530
SANDSTONE & SHALE	GREEN		530	575
SANDSTONE & SHALE GREEN RED TAN	VARIED		575	600
CREVICED SANDSTONE	GREEN	SOFT	600	605
LOST CIRCULATION			605	620

REMARKS
M.G.S. NO. 2865.

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: 426531 Y: 4957263

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 Cretaceous,Undiff.
Last Strat Franconia-Ironton-Galesvill
Aquifer
Depth to Bedrock 320 ft.

Well Contractor Certification

Praught M. Well Co.	86576	
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report

247268

Printed 9/24/2008
HE-01205-07

Minnesota Unique Well No.
463131

County Carver
Quad Norwood
Quad ID 106C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/01/1991
Update Date 06/15/2007
Received Date

Well Name ARETZ, BRENT
Township Range Dir Section Subsections Elevation 1001 ft.
115 26 W 15 DBDCAD Elevation Method CALC FROM 2-FOOT COUNTY DEM

Well Depth	Depth Completed	Date Well Completed
168 ft.	168 ft.	03/21/1991

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 163 ft.	lbs./ft.	8 in. to 168 ft.

Well Address
815 ELM ST
NORWOOD MN 55368

Open Hole from ft. to ft

Screen YES Make JOHNSON Type stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	18	5	163 ft. and 168 ft.

Geological Material	Color	Hardness	From	To
TOPSOIL	BLACK	SOFT	0	3
CLAY	YELLOW	SOFT	3	15
CLAY	BLUE	SOFT	15	160
SAND			160	168

Static Water Level
90 ft. from Land surface Date Measured 03/2 /1991

PUMPING LEVEL (below land surface)
168 ft. after 0.5 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: Neat Cement	from 0 to 30 ft.	0.25 yrds.
Grout Material: Bentonite	from 30 to 163 ft.	0.5 yrds.

Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Address verification Date 02/27/2007
System UTM - Nad83, Zone15, Meters X: 425919 Y: 4957268

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 03/21/1991
Manufacturer's name FLINT & WALLING 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

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 463131 Printed 9/24/2008
HE-01205-07

Minnesota Unique Well No.
700300

County Carver
Quad Norwood
Quad ID 106C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/19/2006
Update Date 08/06/2007
Received Date 01/26/2006

Well Name CITY OF NORWOOD
Township Range Dir Section Subsections Elevation
115 26 W 15 DACAAD Elevation Method
989 ft.
7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
300 ft.	300 ft.	11/04/2003

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☑ Yes ☑ No
From Ft. to Ft.

Well Address
BALL FIELD
NORWOOD MN 55368

Use Abandoned Status Sealed

Casing Type Joint No Information Drive Shoe? ☑ Yes ☑ No Above/Below ft.

Casing Diameter	Weight	Hole Diameter
		6.25 in. to 300 ft.

Open Hole from ft. to ft

Screen Make Type

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
TOP SOIL	BLACK		0	4
SAND	GRY/BRN		4	9
SANDY CLAY & SAND MIX	GRAY		9	17
SAND CLAY	GRAY	SOFT	17	44
SAND & GRAVEL & CLAY LAYERS	GRAY		44	49
SANDY CLAY	GRAY		49	82
SANDY CLAY	GRAY	SOFT	82	87
SANDY CLAY, COAL	GRAY		87	102
SANDY CLAY	GRAY	SOFT	102	107
SANDY CLAY & COAL & PEBBLES	GRAY	HARD	107	116
SAND	VARIED		116	119
SANDY CLAY	GRAY		119	123
GRAVEL	VARIED		123	130
SANDY CLAY & LIMESTONE & SAND LAYE	GRAY		130	201
SANDY CLAY & LIMESTONE & SAND LAY	GREEN		201	232
SANDY CLAY & SAND LAYERS	BROWN		232	247
SAND	GRAY		247	276
ROCK CLAY & SAND LAYERS	GRAY		276	292
SANDSTONE	WHITE		292	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)

REMARKS
USE: ENVIRON. BORE HOLE

Grouting Information Well Grouted? ☑ Yes ☑ No

Grout Material: High solids bentonite from to 300 ft. 20 bags

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Information from owner
Date 07/16/2007
System UTM - Nad83, Zone15, Meters
X: 426247 Y: 4957361

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.	91636	GRIMM, G.
License Business Name	Lic. Or Reg. No.	Name of Driller

First Bedrock Cretaceous,Undiff.
Last Strat Cretaceous,Undiff.
Aquifer
Depth to Bedrock 292 ft.

County Well Index Online Report | 700300 | Printed 9/24/2008
HE-01205-07

Minnesota Unique Well No.
752454

County Carver
Quad Norwood
Quad ID 106C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 12/13/2007
Update Date 08/15/2008
Received Date 08/06/2007

Well Name MW-1
Township Range Dir Section Subsections Elevation — 987 ft.
115 26 W 14 BCCADB Elevation Method — Calc from DEM (USGS 7.5 m n or equiv.)

Well Depth	Depth Completed	Date Well Completed
20 ft.	14.5 ft.	06/04/2007

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 4.5 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	10	4.5 ft. and 14.5 ft.

Well Address
NORWOOD MN 55368

Geological Material	Color	Hardness	From	To
CONCRETE FILL	GRAY	HARD	0	2
BROWN SANDY CLAY	BROWN	MEDIUM	2	20

Static Water Level
7 ft. from Land surface Date Measured 06/04/2007

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
WELL LOCATION: SW OF N. MORSE ST. & W. RAILRCAD ST., NORWOOD, MN 55368

Located Minnesota Department of Health — Method GPS SA Off (averaged)
Unique Number Verification N/A — Date 08/23/2007
System UTM - Nad83, Zone15, Meters — X: 426615 Y: 4957718

Grouting Information Well Grouted? ☑ Yes ☑ No

Grout Material: CONCRETE from to 4 ft. 1.5 bags

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
Bergerson Caswell Inc.	1767	LENZMEIER, D.

First Bedrock
Last Strat
Aquifer
Depth to Bedrock ft

County Well Index Online Report — 752454 — Printed 9/24/2008
HE-01205-07

Minnesota Unique Well No.
752455

County Carver
Quad Norwood
Quad ID 106C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 12/13/2007
Update Date 08/15/2008
Received Date 08/06/2007

Well Name MW-2
Township Range Dir Section Subsections Elevation
115 26 W 14 BCCADC Elevation Method
990 ft.
Calc from DEM (USGS 7.5 m n or equiv.)

Well Depth	Depth Completed	Date Well Completed
15 ft.	14 ft.	06/04/2007

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 4 ft.	lbs./ft.	8.25 in. to 15 ft.

Open Hole from ft. to ft

Screen YES Make JOHNSON Type plastic

Diameter	Slot/Gauze	Length	Set Between
2	10	10	4 ft. and 14 ft.

Well Address

NORWOOD MN 55368

Geological Material	Color	Hardness	From	To
SANDY CLAY	BROWN	MEDIUM	0	15

Static Water Level
7 ft. from Land surface Date Measured 06/04/2007

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
MW-2
WELL LOCATION: SW OF N. MORSE ST. & W. RAILRCAD ST., NORWOOD, MN 55368

Located Minnesota Department of Health
Unique Number Verification N/A
System UTM - Nad83, Zone15, Meters
Method GPS SA Off (averaged)
Date 08/23/2007
X: 426607 Y: 4957710

Grouting Information Well Grouted? ☑ Yes ☑ No

Grout Material: CONCRETE from to 4 ft. 1.5 bags

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
Bergerson Caswell Inc.	1767	LENZMEIER, D.

County Well Index Online Report 752455 Printed 9/24/2008
HE-01205-07

Minnesota Unique Well No.
752456

County Carver
Quad Norwood
Quad ID 106C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 12/13/2007
Update Date 08/15/2008
Received Date 08/06/2007

Well Name MW-3
Township Range Dir Section Subsections Elevation — 987 ft.
115 26 W 14 BCCACA Elevation Method — Calc from DEM (USGS 7.5 m n or equiv.)

Well Depth	Depth Completed	Date Well Completed
16 ft.	15 ft.	06/04/2007

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 5 ft.	lbs./ft.	8.25 in. to 16 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

NORWOOD MN 55368

Geological Material	Color	Hardness	From	To
CONCRETE FILL	GRAY	HARD	0	4
CLAY	GRAY	MEDIUM	4	16

Static Water Level
8 ft. from Land surface Date Measured 06/04/2007

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
WELL LOCATION: SW OF N. MORSE ST. & W. RAILRCAD ST., NORWOOD, MN 55368
MW-3

Grouting Information Well Grouted? ☑ Yes ☑ No

Grout Material: CONCRETE from to 4 ft. 1.5 bags

Located Minnesota Department of Health — Method GPS SA Off (averaged)
Unique Number Verification N/A — Date 08/23/2007
System UTM - Nad83, Zone15, Meters — X: 426600 Y: 4957725

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

Bergerson Caswell Inc.	1767	LENZMEIER, D.
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report — 752456 — Printed 9/24/2008
HE-01205-07

Minnesota Unique Well No.
752457

County Carver
Quad Norwood
Quad ID 106C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 12/13/2007
Update Date 08/15/2008
Received Date 08/06/2007

Well Name MW-4

Township	Range	Dir	Section	Subsections	Elevation	Elevation Method
115	26	W	14	BCCADC	990 ft.	Calc from DEM (USGS 7.5 m n or equiv.)

Well Depth	Depth Completed	Date Well Completed
15 ft.	14 ft.	06/11/2007

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 4 ft.	lbs./ft.	8.25 in. to 15 ft.

Well Address

NORWOOD MN 55368

Open Hole from ft. to ft

Screen YES Make JOHNSON Type plastic

Diameter	Slot/Gauze	Length	Set Between
2	10	10	4 ft. and 14 ft.

Geological Material	Color	Hardness	From	To
SILT	BLACK	MEDIUM	0	2
SILTY CLAY	GRY/BRN	MEDIUM	2	15

Static Water Level
8 ft. from Land surface Date Measured 06/11/2007

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)

REMARKS
WELL LOCATION: SW OF N. MORSE ST. & W. RAILRCAD ST., NORWOOD, MN 55368
MW-4

Grouting Information Well Grouted? ☑ Yes ☑ No

Grout Material: CONCRETE from to 4 ft. 1.5 bags

Located Minnesota Department of Health
Unique Number Verification N/A
System UTM - Nad83, Zone15, Meters

Method GPS SA Off (averaged)
Date 08/23/2007
X: 426613 Y: 4957708

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

Bergerson Caswell Inc.	1767	HOLMEN, G.
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report 752457 Printed 9/24/2008
HE-01205-07

- **Perham**

SITE SUMMARY

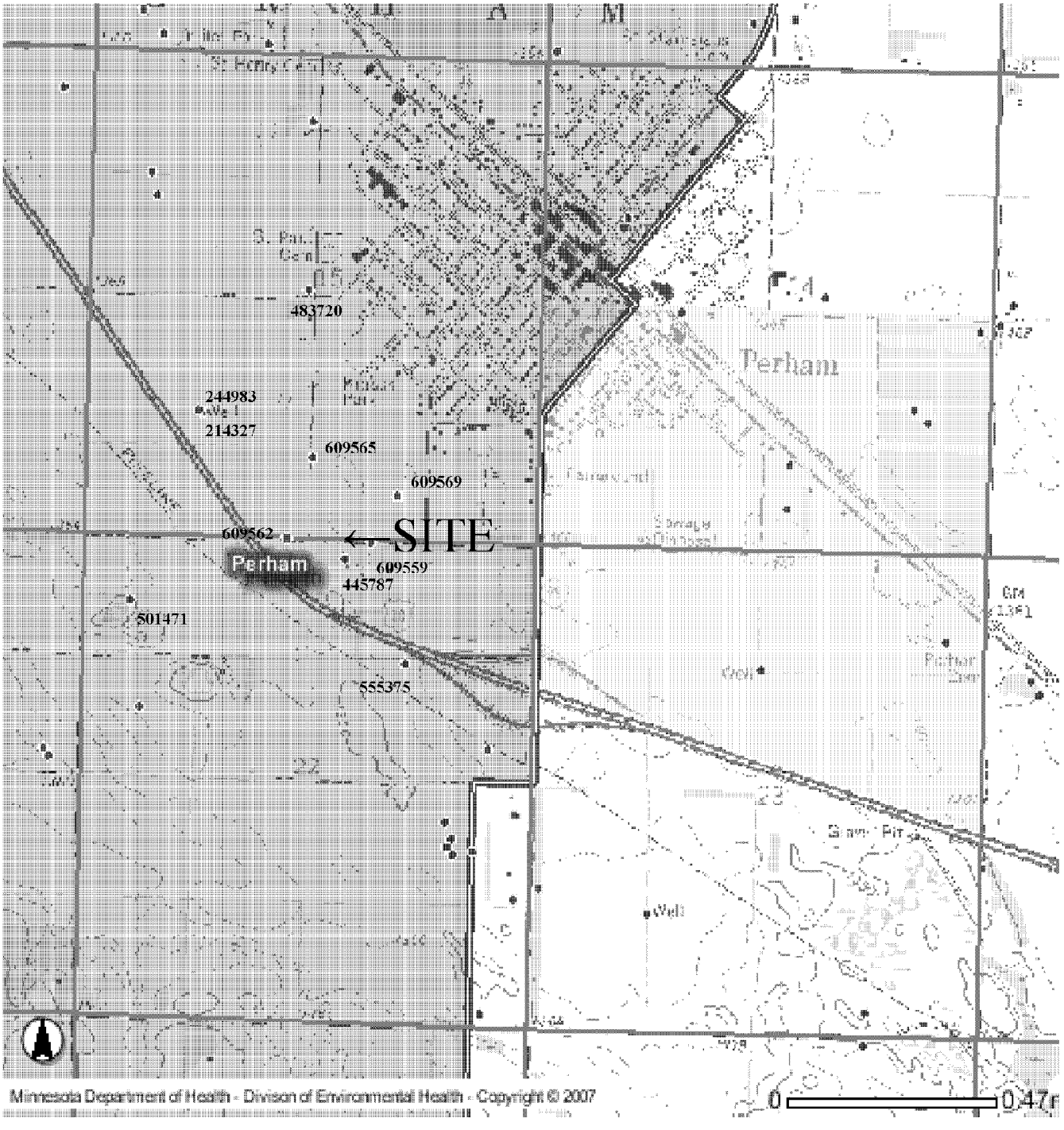
Site Name: Perham

Fire Department: Perham Fire Department
525 West Main
Perham, MN 56573

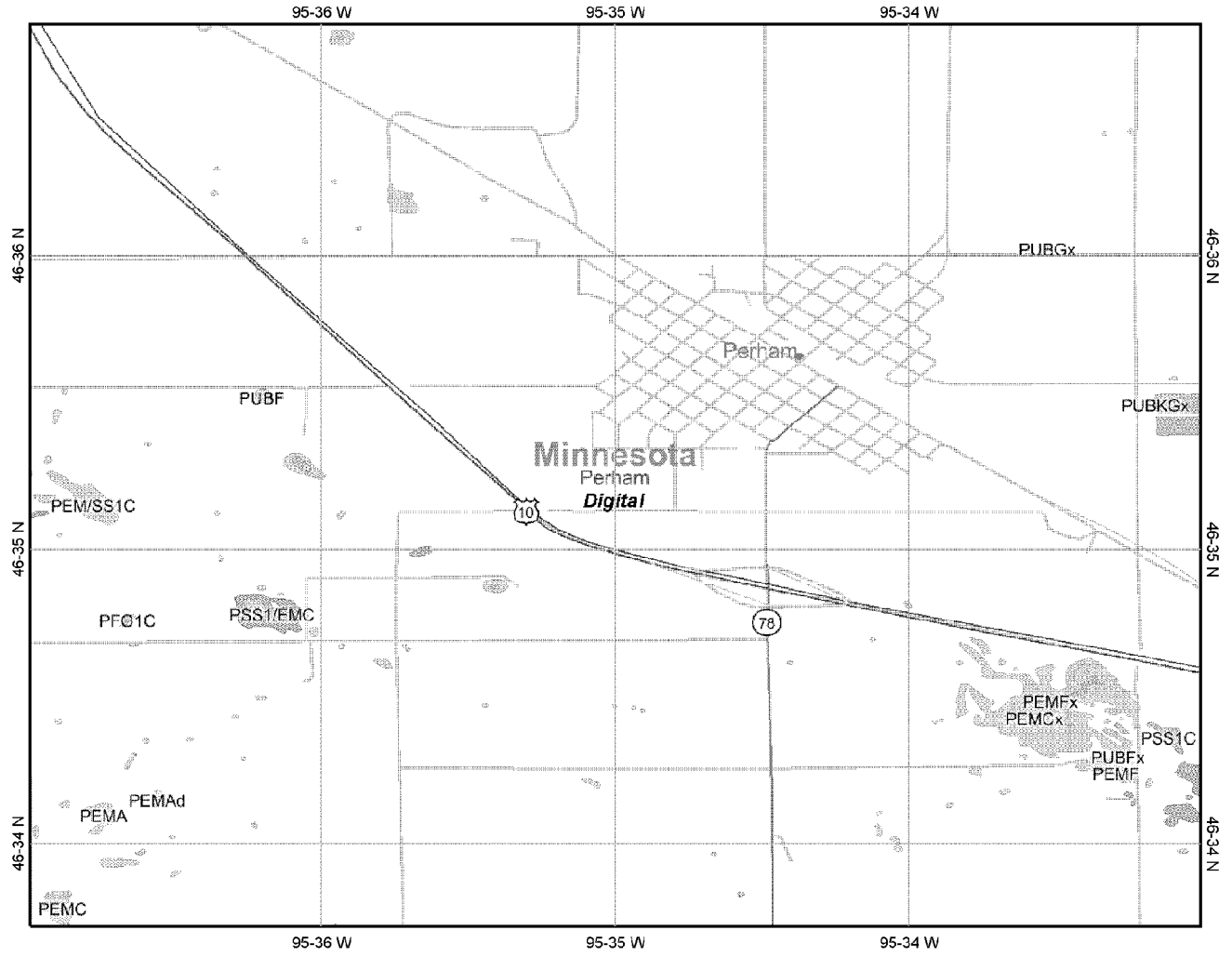
Site Contact: Tracy Schmidt, Fire Chief
218-346-4402
fire@cityofperham.com

Training Location:	Near parking entrance of Prairie Winds Middle School 480 Coney Street, Perham
Training Location Coordinates (X,Y):	30264.55, 5162411.87
Type of foam used in training:	Class B AFFF: various brands Class A: various brands Other: POK system with foam sticks
Foam training frequency:	Semi-annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Ground, storm sewer
Annual foam use:	Class B AFFF: 10 to 20 gallons Class A: 10 to 20 gallons Other: ~ a case of sticks (1 stick = ~5 gallons)
Nearest surface water:	Unnamed ponds located 1/4 to 1/2 mile southwest
Nearest wetland:	Approximately 1/4 to 1/2 mile southwest
Karst Area:	Site is not located in a karst area.
Nearest water well:	Less than 1/4 mile to the south, southeast and northeast
Nearest Wellhead Protection Area:	Site is located in a WPA
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**22**

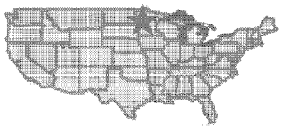
PERHAM CWI Well Map



Perham Wetland Map



Map center: 46° 35' 15" N, 95° 35' 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

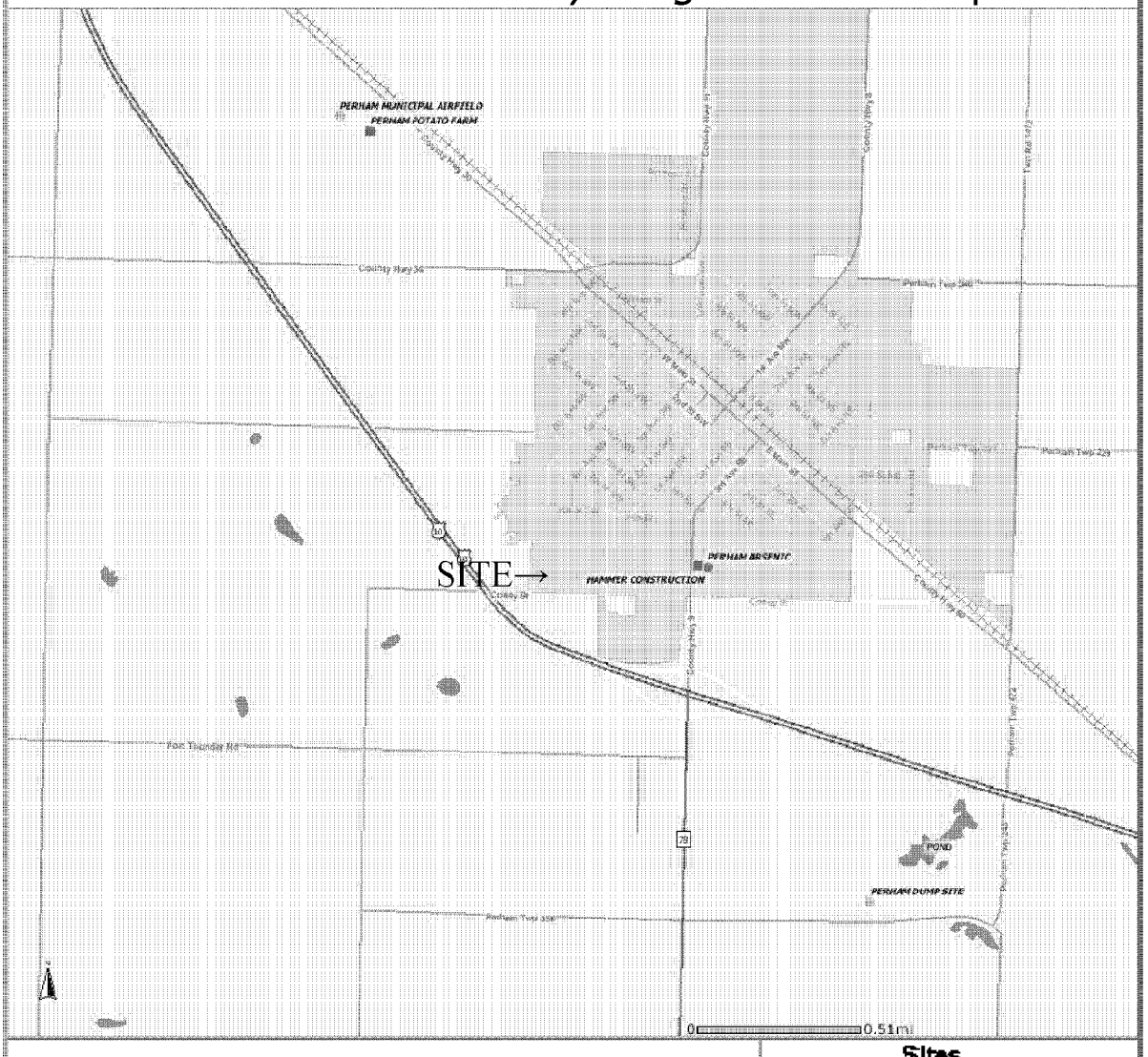
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This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

2233.0512

STATE_02827324

Perham *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

Minnesota Unique Well No.
214327

County Otter Tail
Quad Perham
Quad ID 237D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/17/1988
Update Date 10/07/1998
Received Date

Well Name MANTHE , ELWYN
Township Range Dir Section Subsections Elevation 1367 ft.
136 39 W 15 CACCCC Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
102 ft.	102 ft.	01/17/1969

Drilling Method --

Drilling Fluid --

Well Hydrofractured? ☑ Yes ☑ No
From Ft. to Ft.

Use Irrigation

Casing Type Joint No Information Drive Shoe? ☑ Yes ☑ No Above/Below ft.

Casing Diameter	Weight	Hole Diameter
12 in. to 56 ft.	lbs./ft.	

Open Hole from ft. to ft

Screen YES Make Type

Diameter	Slot/Gauze	Length	Set Between
12	100	46	56 ft. and 102 ft.

Geological Material	Color	Hardness	From	To
SAND	BROWN		0	25
CLAY		SOFT	25	35
CLAY		HARD	35	45
COARSE SAND			45	70
FINE SAND			70	102

Static Water Level
24 ft. from Land surface Date Measured 01/17/1969

PUMPING LEVEL (below land surface)
44 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)

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: 301553 Y: 5162783

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 | 214327 | Printed 9/2/2008
HE-01205-07

Minnesota Unique Well No.
244983

County Otter Tail
Quad Perham
Quad ID 237D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 01/02/1992
Update Date 03/11/2005
Received Date

Well Name R.D. OFFUTT COMPANY
Township Range Dir Section Subsections Elevation
136 39 W 15 Elevation Method 1366 ft. Calc from DEM (USGS 7.5 m n or equiv.)

Well Depth ft. | Depth Completed ft. | Date Well Completed
Drilling Method --

Drilling Fluid --
Well Hydrofractured? ☑ Yes ☑ No From Ft. to Ft.
Use Irrigation
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 Minnesota Department of Health
Unique Number Verification N/A
System UTM - Nad83, Zone15, Meters
Method GPS Differentially Corrected
Date N/A
X: 301545 Y: 5162789

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 | 244983 | Printed 9/2/2008 HE-01205-07

Minnesota Unique Well No.
445787

County Otter Tail
Quad Perham
Quad ID 237D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 01/17/1991
Update Date 10/08/1998
Received Date

Well Name LEIN, DAVE
Township Range Dir Section Subsections Elevation
136 39 W 22 ABBACB Elevation Method 1369 ft. 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
118 ft.	99 ft.	09/13/1988

Drilling Method Non-specified Rotary

Drilling Fluid Revert

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 94 ft.	lbs./ft.	6 in. to 118 ft.

Well Address

PERHAM MN 56573

Geological Material	Color	Hardness	From	To
SAND AND GRAVEL	YELLOW	SOFT	0	30
CLAY	BLUE	SOFT	30	38
CLAY & SAND STRIPS	YELLOW	SOFT	38	43
SAND	YELLOW	SOFT	43	65
CLAY	BLUE	SOFT	65	68
SAND	GRAY	SOFT	68	81
CLAY	BLUE	SOFT	81	88
SAND	GRAY	SOFT	88	93
SAND	GRAY	SOFT	93	98
SAND	GRAY	SOFT	98	99
CLAY	BLUE	SOFT	99	105
SAND	GRAY	SOFT	105	118

Open Hole from ft. to ft.

Screen YES Make JOHNSON Type stainless steel

Diameter	Slot/Gauze	Length	Set Between
3.8	12	5	94 ft. and 99 ft.

Static Water Level
27 ft. from Land surface Date Measured 09/13/1988

PUMPING LEVEL (below land surface)
50 ft. after hrs. pumping 100 g.p.m.

Well Head Completion
Pitless adapter manufacturer MONITOR Model 6FT BURY
☑ 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 to ft.

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: 302065 Y: 5162290

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 09/00/1988
Manufacturer's name AERMOTOR Model number SD-12-75 HP 0.75 Volts 230
Length of drop Pipe 72 ft. Capacity 30 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

First Bedrock

Last Strat Sand-gray

Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

Cichy R.m. Well Co.	56154	CICHY, R.
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report | 445787 | Printed 9/2/2008 HE-01205-07

Minnesota Unique Well No.
483720

County Otter Tail
Quad Perham
Quad ID 237D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 09/05/1997
Update Date 10/26/2007
Received Date

Well Name R.D. OFFERT CO.
Township Range Dir Section Subsections Elevation
136 39 W 15 BDDD Elevation Method 1367 ft. Calc from DEM (USGS 7.5 m n or equiv.)

Well Depth	Depth Completed	Date Well Completed
34 ft.	33 ft.	06/28/1994

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 28 ft.	lbs./ft.	6 in. to 34 ft.

Open Hole from ft. to ft.

Screen YES Make Type stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	10	5	28 ft. and 33 ft.

Geological Material	Color	Hardness	From	To
TOPSOIL			0	2
FINE GRAINED SAND	BROWN		2	8
SAND W/ GRAVEL	BROWN		8	16
FINE GRAINED SAND	BROWN		16	20
SAND & GRAVEL	BROWN		20	31
GRAVEL	GRAY		31	33
FINE SAND	GRY/BRN		33	34

Static Water Level
22 ft. from Land surface Date Measured 06/28/1994

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)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☑ No

Grout Material: Bentonite	from 21 to 26 ft.	0.5 bags
Grout Material: CONCRETE	from to 21 ft.	5 bags

Located Minnesota Department of Health
Unique Number Verification N/A
System UTM - Nad83, Zone15, Meters
Method GPS Differentially Corrected
Date N/A
X: 301937 Y: 5163187

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

U.s. Geol Survey	M0113	ROSEMORE, 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 | 483720 | Printed 9/2/2008
HE-01205-07

Minnesota Unique Well No.
501471

County Otter Tail
Quad Perham
Quad ID 237D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 01/02/1992
Update Date 12/29/2004
Received Date

Well Name TOBKINS, NEIL
Township Range Dir Section Subsections Elevation
136 39 W 22 BBADCD Elevation Method
1348 ft.
Calc from DEM (USGS 7.5 m n or equiv.)

Well Depth	Depth Completed	Date Well Completed
73 ft.	73 ft.	04/10/1989

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 No Information Drive Shoe? ☑ Yes ☑ No Above/Below 1 ft.

Casing Diameter	Weight	Hole Diameter
10 in. to 63 ft.	lbs./ft.	10 in. to 72 ft.

Open Hole from ft. to ft.

Screen YES Make JOHNSON Type stainless steel

Diameter	Slot/Gauze	Length	Set Between
10	100	10	63 ft. and 73 ft.

Geological Material	Color	Hardness	From	To
SAND	TAN	SOFT	0	10
SAND	BROWN	SOFT	10	55
SAND	BROWN	SOFT	55	73

Static Water Level
10 ft. from Land surface Date Measured 04/10/1989

PUMPING LEVEL (below land surface)
45 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)

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☑ No

Grout Material: Bentonite from 0 to 55 ft.

Located Minnesota Geological Survey
Unique Number Verification Other, note in remarks
System UTM - Nad83, Zone15, Meters
Method GPS Differentially Corrected
Date N/A
X: 301298 Y: 5162156

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 Sand-brown
Aquifer Quat. Water Table Aquifer
Depth to Bedrock ft.

Ingleside Engr.	27355	DEHN, D.
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report 501471 Printed 9/2/2008
HE-01205-07

Minnesota Unique Well No.
555375

County Otter Tail
Quad Perham
Quad ID 237D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 07/12/1995
Update Date 10/08/1998
Received Date

Well Name

Township	Range	Dir	Section	Subsections	Elevation	Elevation Method
136	39	W	22	ACAABA	1362 ft.	7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
165 ft.	159 ft.	05/25/1995

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 155 ft.	lbs./ft.	7 in. to 30 ft.
		6 in. to 165 ft.

Well Address
RR 3 BOX 27H
PERHAM MN 56573

Open Hole from ft. to ft

Screen YES Make JOHNSON Type stainless steel

Diameter	Slot/Gauze	Length	Set Between
3.8	10	4	155 ft. and 159 ft.

Geological Material	Color	Hardness	From	To
SAND AND CLAY STIPS	YELLOW	SOFT	0	58
SAND	YELLOW	SOFT	58	88
SAND	GRAY	SOFT	88	121
CLAY	BLUE	MEDIUM	121	132
SAND	YELLOW	SOFT	132	138
SAND	YELLOW	SOFT	138	148
SAND	GRAY	SOFT	148	161
CLAY	BLUE	HARD	161	165

Static Water Level
22 ft. from Land surface Date Measured 05/25/1995

PUMPING LEVEL (below land surface)
45 ft. after hrs. pumping 100 g.p.m.

Well Head Completion
Pitless adapter manufacturer MAASS Model 1.25
☑ 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 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: 302281 Y: 5161941

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 05/30/1995
Manufacturer's name AERMOTOR Model number 5T-12-50 HP 0.5 Volts 230
Length of drop Pipe 60 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 Clay-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft

Well Contractor Certification

Cichy R.m. Well Co.	56154	CICHY, R.
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report 555375 Printed 9/2/2008
HE-01205-07

Minnesota Unique Well No.
609559

County Otter Tail
Quad Perham
Quad ID 237D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 07/13/1999
Update Date 07/12/2004
Received Date

Well Name CITY OF PERHAM
Township Range Dir Section Subsections Elevation
136 39 W 22 ABABBB Elevation Method
1370 ft.
Calc from DEM (USGS 7.5 m n or equiv.)

Well Depth	Depth Completed	Date Well Completed
100 ft.	100 ft.	08/12/1998

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 No Information Drive Shoe? ☑ Yes ☑ No Above/Below ft.

Casing Diameter	Weight	Hole Diameter
2 in. to 97 ft.	lbs./ft.	4 in. to 95 ft.

Open Hole from ft. to ft

Screen YES Make Type steel (non-stainless)

Diameter	Slot/Gauze	Length	Set Between
2	10	3	97 ft. and 100 ft.

Well Address
CONEY RD S
PERHAM MN 56573

Geological Material	Color	Hardness	From	To
FINE SAND- MEDIUM DENSE	BROWN		0	9
MEDIUM SAND - MEDIUM DENSE	BROWN		9	24
SAND WITH GRAVEL - MEDIUM DENSE	BROWN		24	29
FINE SAND - MEDIUM DENSE	GRAY		29	34
SILTY SAND - VERY LOOSE TO DENSE	GRAY		34	44
SAND W/ SILT - DENSE TO VERY DENSE	GRAY		44	96

Static Water Level
24 ft. from Land surface Date Measured 08/12/1998

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

Grout Material: Neat Cement from 0 to 93 ft.
Grout Material: Bentonite from 93 to 95 ft.

Located Minnesota Department of Health
Unique Number Verification N/A
System UTM - Nad83, Zone15, Meters

Method Digitization (Screen) - Map (1:24,000)
Date 07/09/2004
X: 302159 Y: 5162346

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

Gme Consultants	M0101	ALDRICH, T.
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 | 609559 | Printed 9/2/2008
HE-01205-07

Minnesota Unique Well No.
609562

County Otter Tail
Quad Perham
Quad ID 237D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 05/25/1999
Update Date 03/11/2005
Received Date

Well Name PERHAM, CITY OF
Township Range Dir Section Subsections Elevation
136 39 W 15 CDDDCC Elevation Method
1366 ft.
Calc from DEM (USGS 7.5 m n or equiv.)

Well Depth	Depth Completed	Date Well Completed
101 ft.	65 ft.	08/14/1998

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
2 in. to 62 ft.	lbs./ft.	4 in. to 65 ft.

Open Hole from ft. to ft.

Screen YES Make Type stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	10	3	62 ft. and 65 ft.

Geological Material	Color	Hardness	From	To
SAND W/ SILT - MEDIUM DENSE	BROWN		0	19
SAND, TRACE SILT - DENSE TO LOOSE	BROWN		19	30
SILTY CLAYEY SAND - LOOSE TO DENSE	GRAY		30	44
FINE SAND - MEDIUM DENSE	BROWN		44	49
FINE SAND - DENSE	BROWN		49	59
FINE SAND - DENSE	GRY/BRN		59	64
SILTY CLAY - STIFF	GRAY		64	79
FINE TO COARSE SAND - DENSE	BROWN		79	84
FINE TO COARSE SAND - MEDIUM DENSE	GRAY		84	89
SILTY CLAY - STIFF TO VERY DENSE	GRAY		89	101

Static Water Level
18 ft. from Land surface Date Measured 08/14/1998

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

Located Minnesota Department of Health
Unique Number Verification N/A
System UTM - Nad83, Zone15, Meters
Method Digitization (Screen) - Map (1:24,000)
Date 07/09/2004
X: 301858 Y: 5162360

Grouting Information Well Grouted? ☑ Yes ☑ No

Grout Material: Neat Cement from 0 to 58 ft.
Grout Material: Bentonite from 58 to 60 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

Gme Consultants	M0101	ALDRICH, T.
License Business Name	Lic. Or Reg. No.	Name of Driller

First Bedrock
Last Strat Silt & clay-gray
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report

609562

Printed 9/2/2008
HE-01205-07

Minnesota Unique Well No.
609565

County Otter Tail
Quad Perham
Quad ID 237D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 07/13/1999
Update Date 07/12/2004
Received Date

Well Name HEART OF THE LAKE ELEM.
Township Range Dir Section Subsections Elevation
136 39 W 15 CDADAD Elevation Method
1369 ft.
Calc from DEM (USGS 7.5 m n or equiv.)

Well Depth	Depth Completed	Date Well Completed
100 ft.	100 ft.	03/18/1998

Drilling Method Auger (non-specified)

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
2 in. to 97 ft.	lbs./ft.	4 in. to 100 ft.

Open Hole from ft. to ft.

Screen YES Make Type steel (non-stainless)

Diameter	Slot/Gauze	Length	Set Between
2	10	3	97 ft. and 100 ft.

Well Address
810 2ND AV SW
PERHAM MN 56573

Geological Material	Color	Hardness	From	To
FINE TO MED SAND LOOSE TO DENSE	BROWN		0	24
SAND WITH SILT MEDIUM DENSE	BROWN		24	29
SILTY CLAYEY SAND MEDIUM DENSE	BROWN		29	31
FINE TO MEDIUM SAND MEDIUM DENSE	BROWN		31	49
SAND WITH SILT DENSE	GRAY		49	59
FINE TO MED SAND DENSE	GRAY		59	74
FINE SAND DENSE	GRAY		74	91
CLAYEY SAND DENSE	GRAY		91	94
SAND WITH SILT VERY DENSE	GRAY		94	95

Static Water Level
23 ft. from Land surface Date Measured 03/18/1998

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 93 ft.
Grout Material: Bentonite from 93 to 95 ft.

Located Minnesota Department of Health
Unique Number Verification N/A
System UTM - Nad83, Zone15, Meters
Method Digitization (Screen) - Map (1:24,000)
Date 07/09/2004
X: 301950 Y: 5162631

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

Gme Consultants	M0101	ALDRICH, T.
License Business Name	Lic. Or Reg. No.	Name of Driller

First Bedrock
Last Strat Sand & silt-gray
Aquifer
Depth to Bedrock ft.

County Well Index Online Report | 609565 | Printed 9/2/2008
HE-01205-07

Minnesota Unique Well No.
609569

County Otter Tail
Quad Perham
Quad ID 237D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 07/13/1999
Update Date 07/12/2004
Received Date

Well Name HEART OF THE LAKES ELEM.
Township Range Dir Section Subsections Elevation
136 39 W 15 DCDABC Elevation Method
1368 ft.
Calc from DEM (USGS 7.5 m n or equiv.)

Well Depth	Depth Completed	Date Well Completed
100 ft.	100 ft.	08/11/1998

Drilling Method Auger (non-specified)

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
2 in. to 97 ft.	lbs./ft.	8 in. to 29 ft.
		4 in. to 100 ft.

Open Hole from ft. to ft

Screen YES Make Type

Diameter	Slot/Gauze	Length	Set Between
2	10	3	97 ft. and 100 ft.

Well Address
810 2ND AV SW
PERHAM MN 56573

Geological Material	Color	Hardness	From	To
MED SAND LOOSE TO MED DENSE	BROWN		0	29
SAND WITH GRAVEL LOOSE	BROWN		29	34
SAND	BROWN	MEDIUM	34	64
SAND WITH GRAVEL DENSE	BROWN		64	74
SAND WITH SILT DENSE	BROWN		74	93
SAND WITH GRAVEL VERY DENSE	BROWN		93	95

Static Water Level
24 ft. from Land surface Date Measured 08/10/1998

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 90 ft.
Grout Material: Bentonite from 90 to 95 ft.

Located Minnesota Department of Health
Unique Number Verification N/A
System UTM - Nad83, Zone15, Meters
Method Digitization (Screen) - Map (1:24,000)
Date 07/09/2004
X: 302253 Y: 5162501

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

Gme Consultants	M0101	ALDRICH, T.
License Business Name	Lic. Or Reg. No.	Name of Driller

First Bedrock
Last Strat Sand & larger-brown
Aquifer
Depth to Bedrock ft.

County Well Index Online Report | 609569 | Printed 9/2/2008
HE-01205-07

- **Plymouth**

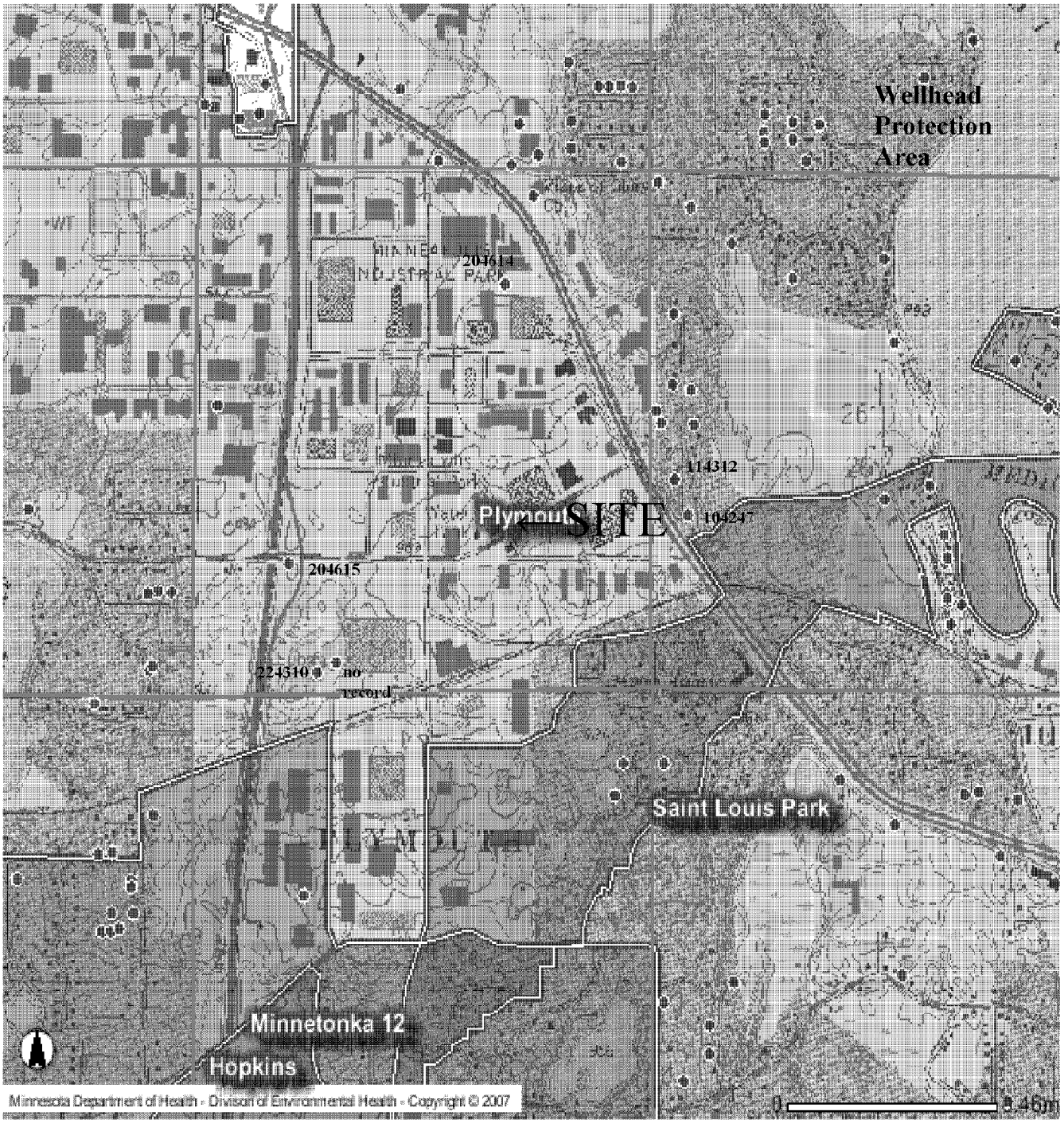
  - County Road 6
  - Dunkirk Lane
  - Old Rockford Road

SITE SUMMARY

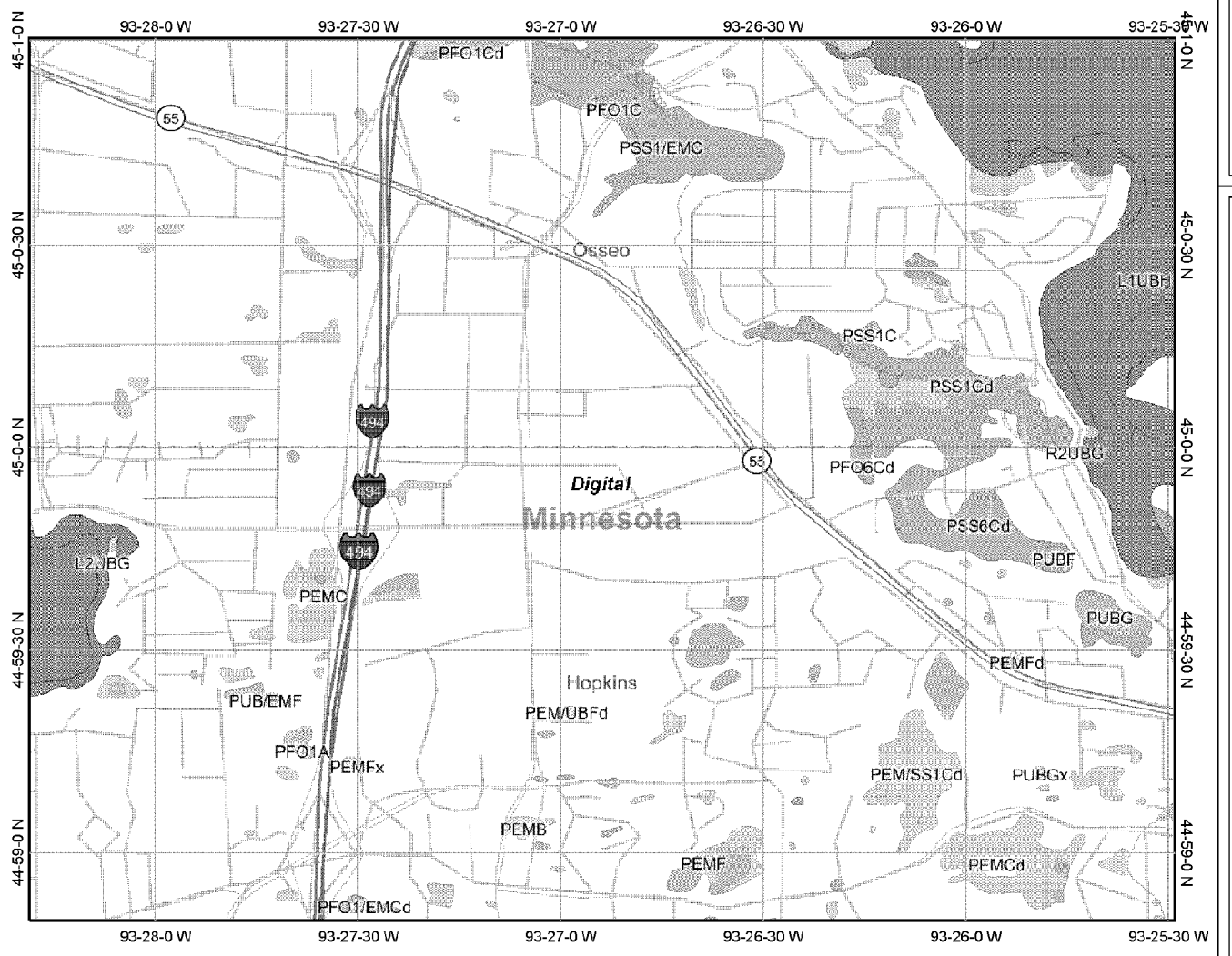
Site Name:	Plymouth - County Road 6
Fire Department:	Plymouth Fire Department 3400 Plymouth Blvd. Plymouth, MN 55447
Site Contact:	Rick Kline, Fire Chief 763-509-5121

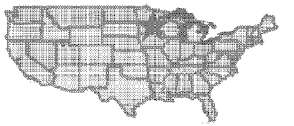
Training Location:	Fire Station 1, 13250 County Road 6, Plymouth
Training Location Coordinates (X,Y):	464699.04, 4982766.14
Type of foam used in training:	AFFF: Ansul
Foam training frequency:	Semi-annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Storm sewer
Annual foam use:	AFFF: less than 20 gallons Class A: less than 50 gallons
Nearest surface water:	Unnamed ponds 1/4 to 1/2 south
Nearest wetland:	1/2 to 1 mile east
Karst Area:	Site is located in a covered karst area
Nearest water well:	1/4 to 1/2 mile east
Nearest Wellhead Protection Area:	Training site is located in a WPA
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**12**

PLYMOUTH - COUNTY ROAD 6 CWI Well Map



Plymouth Co Rd 6 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: 1:28,214

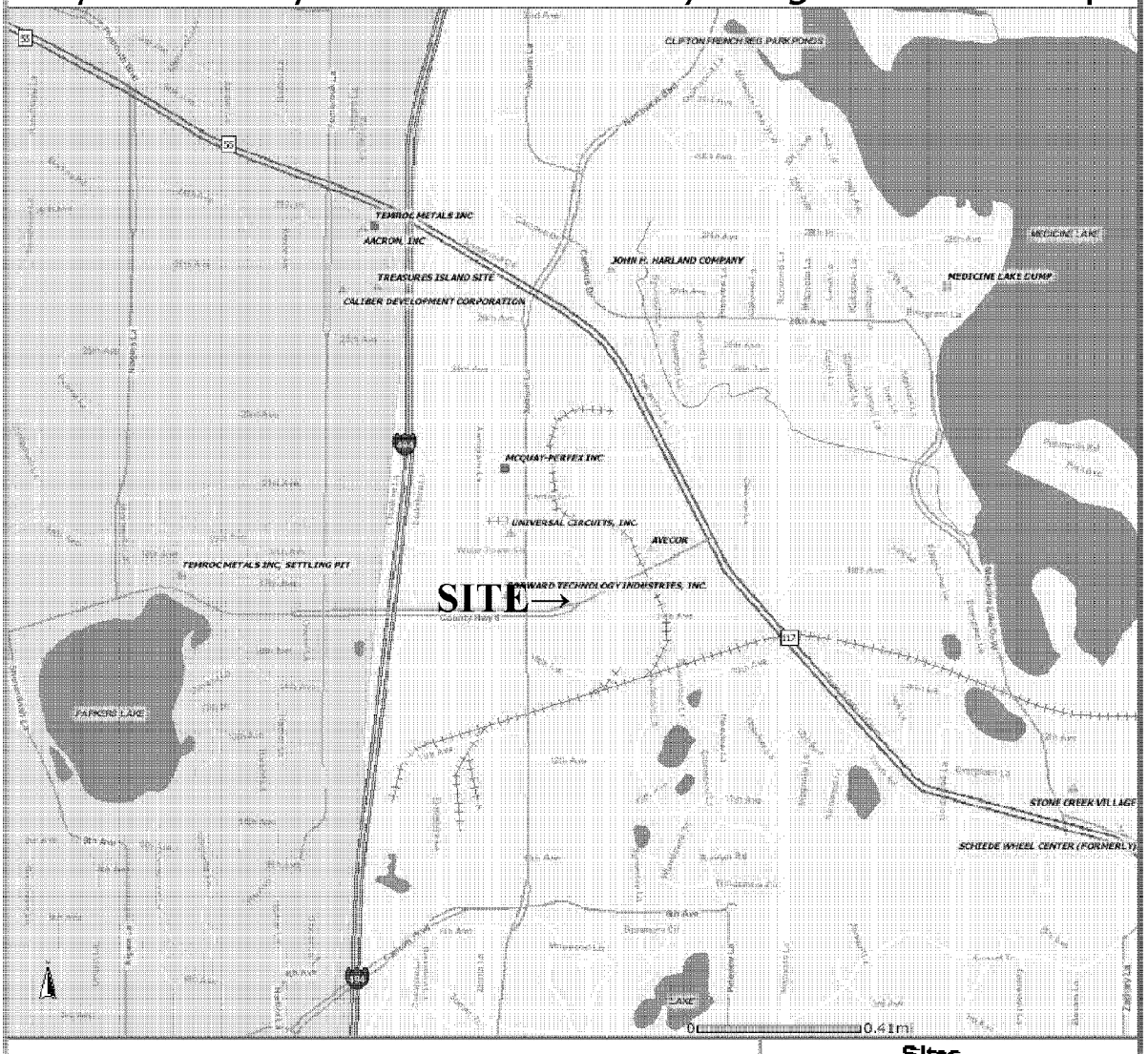
Map center: 44° 59' 55" N, 93° 26' 54" W

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2233.0527

STATE_02827339

Plymouth Cty Rd 6 *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

Minnesota Unique Well No.
104247

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 AL RANISATE
Township Range Dir Section Subsections Elevation
118 22 W 26 CBCACA Elevation Method
954 ft.
7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
90 ft.	90 ft.	06/12/1976

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 84 ft.	lbs./ft.	

Open Hole from ft. to ft

Screen YES Make HOWARD SMITH Type stainless steel

Diameter	Slot/Gauze	Length	Set Between
2	12	6	82 ft. and 88 ft.

Well Address
1640 OAKVIEW LA
PLYMOUTH MN

Geological Material	Color	Hardness	From	To
SOIL	BROWN	SOFT	0	3
SAND & GRAVEL	BROWN	SOFT	3	90

Static Water Level
55 ft. from Land surface Date Measured 06/12/1976

PUMPING LEVEL (below land surface)
56 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
LOCATED BOTH BY ADRESS VERIFICATION AND BY INFO. FROM NEIGHBOR

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: 465352 Y: 4982814

Nearest Known Source of Contamination
__feet __direction __type
Well disinfected upon completion? ☑ Yes ☑ No

Pump ☑ Not Installed Date Installed
Manufacturer's name FAIRBANKS Model number 4C-5008 HP 0.5 Volts 220
Length of drop Pipe 63 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-brown
Aquifer Quat. Water Table Aquifer
Depth to Bedrock ft

Well Contractor Certification

Maher Well Co.	19301	
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report | 104247 | Printed 9/10/2008
HE-01205-07

Minnesota Unique Well No.
114312

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 JEFF CANFIELD

Township	Range	Dir	Section	Subsections	Elevation	
118	22	W	26	CBBCAD	Elevation Method	949 ft. 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
97 ft.	97 ft.	05/20/1975

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 92 ft.	lbs./ft.	

Well Address
1745 OAKFIELD LA
PLYMOUTH MN

Open Hole from ft. to ft

Screen YES Make JOHNSON Type stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	18	4	92 ft. and 97 ft.

Geological Material	Color	Hardness	From	To
CLAY	BLACK		0	2
CLAY	BROWN		2	8
GRAVEL	VARIED		8	97

Static Water Level
67 ft. from Land surface Date Measured 05/20/1975

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 Address verification
Date N/A

System UTM - Nad83, Zone15, Meters
X: 465304 Y: 4982923

Nearest Known Source of Contamination
__feet __direction __type
Well disinfected upon completion? ☑ Yes ☑ No

Pump ☑ Not Installed Date Installed
Manufacturer's name MEYER Model number __ HP 0.75 Volts 230
Length of drop Pipe 75 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. 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 114312 Printed 9/10/2008
HE-01205-07

Minnesota Unique Well No.
204614

County Hennepin
Quad Osseo
Quad ID 120C

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 PETER KUIPER
Township Range Dir Section Subsections Elevation 941 ft.
118 22 W 27 ABCDBB Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
236 ft.	236 ft.	10/02/1961

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
5 in. to 191 ft.	lbs./ft.	

Open Hole from 191 ft. to 236 ft.

Screen NO Make Type

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
80 ft. from Land surface Date Measured 10/02/1961

PUMPING LEVEL (below land surface)
0 ft. after hrs. pumping 42 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
7908 HWY 55 HY
PLYMOUTH MN

Geological Material	Color	Hardness	From	To
CLAY	BROWN		0	10
CLAY	BLUE		10	40
SANDY CLAY	BROWN		40	46
DIRTY SAND-STONES	BROWN		46	65
CLAY	TAN		65	70
CLAY-STONES	BLUE		70	81
CEMENTED SAND	BROWN		81	85
MUSH	BROWN		85	101
CEMENTED SAND	BROWN		101	111
CEMENTED GRAVEL	DARK		111	135
ST. PETER, DIRTY	BROWN		135	177
SHALE	WHITE		177	185
SHALE	RED		185	191
ST. PETER	WHITE		191	236

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: 464709 Y: 4983523

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 15C K1-9CA HP 1.5 Volts
Length of drop Pipe 108 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

First Bedrock St.Peter
Last Strat St.Peter
Aquifer St.Peter
Depth to Bedrock 135 ft.

Renner E.H. & Sons	27015	
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report | 204614 | Printed 9/10/2008 HE-01205-07

Minnesota Unique Well No.
204615

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 O. V. BUSBY
Township Range Dir Section Subsections Elevation
118 22 W 27 CCAABA Elevation Method
950 ft.
7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
72 ft.	72 ft.	10/01/1968

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 66 ft.	lbs./ft.	

Open Hole from ft. to ft

Screen YES Make 948 Type stainless stee

Diameter	Slot/Gauze	Length	Set Between
2	12	5.6	0 ft. and ft.

Well Address
13919 CO RD 6 CR
MN

Geological Material	Color	Hardness	From	To
DIRT AND SAND	BLACK		0	27
CLAY, HARDPAN	YELLOW		27	56
SAND	BROWN		56	72

Static Water Level
30 ft. from Land surface Date Measured 10/0 /1968

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)

REMARKS
WELL WAS DESTROYED

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: 463948 Y: 4982664

Nearest Known Source of Contamination
__feet __direction __type
Well disinfected upon completion? ☑ Yes ☑ No

Pump ☑ Not Installed Date Installed
Manufacturer's name GOULD Model number __ HP 1.5 Volts
Length of drop Pipe 55 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

First Bedrock
Last Strat Sand-brown
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft

Mork Well Co.	02133	
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report 204615 Printed 9/10/2008
HE-01205-07

Minnesota Unique Well No.
224310

County Hennepin
Quad Hopkins
Quad ID 104B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 03/31/1994
Update Date 10/11/1995
Received Date

Well Name PARKERS LAKE SUB. STAT.
Township Range Dir Section Subsections Elevation
118 22 W 27 CDCCBC Elevation Method
939 ft.
7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
243 ft.	243 ft.	02/25/1969

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
8 in. to 67 ft.	lbs./ft.	8 in. to 107 ft.
4 in. to 208 ft.	lbs./ft.	4 in. to 246 ft.

Open Hole from 208 ft. to 246 ft.

Screen NO Make Type

Diameter	Slot/Gauze	Length	Set Between

Well Address
PLYMOUTH MN

Geological Material	Color	Hardness	From	To
CLAY	YELLOW		0	15
GRAVEL-CLAY MIXED			15	32
WATER SAND			32	46
GRAVEL-HARD-DIRTY			46	67
FINE GRAVEL			67	76
SHALE	GREEN		76	82
SHALEY SANDROCK			82	108
SANDROCK		SOFT	108	189
SHALE	GREEN		189	196
SHALE	RED		196	208
SANDROCK-HARD, SOFT STREAKS			208	243

Static Water Level
55 ft from Land surface Date Measured 02/25/1969

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)

REMARKS
M.G.S. NO.507.

Grouting Information Well Grouted? ☑ Yes ☑ No

Located Minnesota Geological Survey
Unique Number Verification Information from owner
System UTM - Nad83, Zone15, Meters

Method Digitization (Screen) - Map (1:24,000)
Date 08/30/2004
X: 464048 Y: 4982328

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 Platteville
Last Strat St.Peter
Aquifer St.Peter
Depth to Bedrock 67 ft.

Well Contractor Certification
Bergerson-Caswell | 27058
License Business Name | Lic. Or Reg. No. | Name of Driller

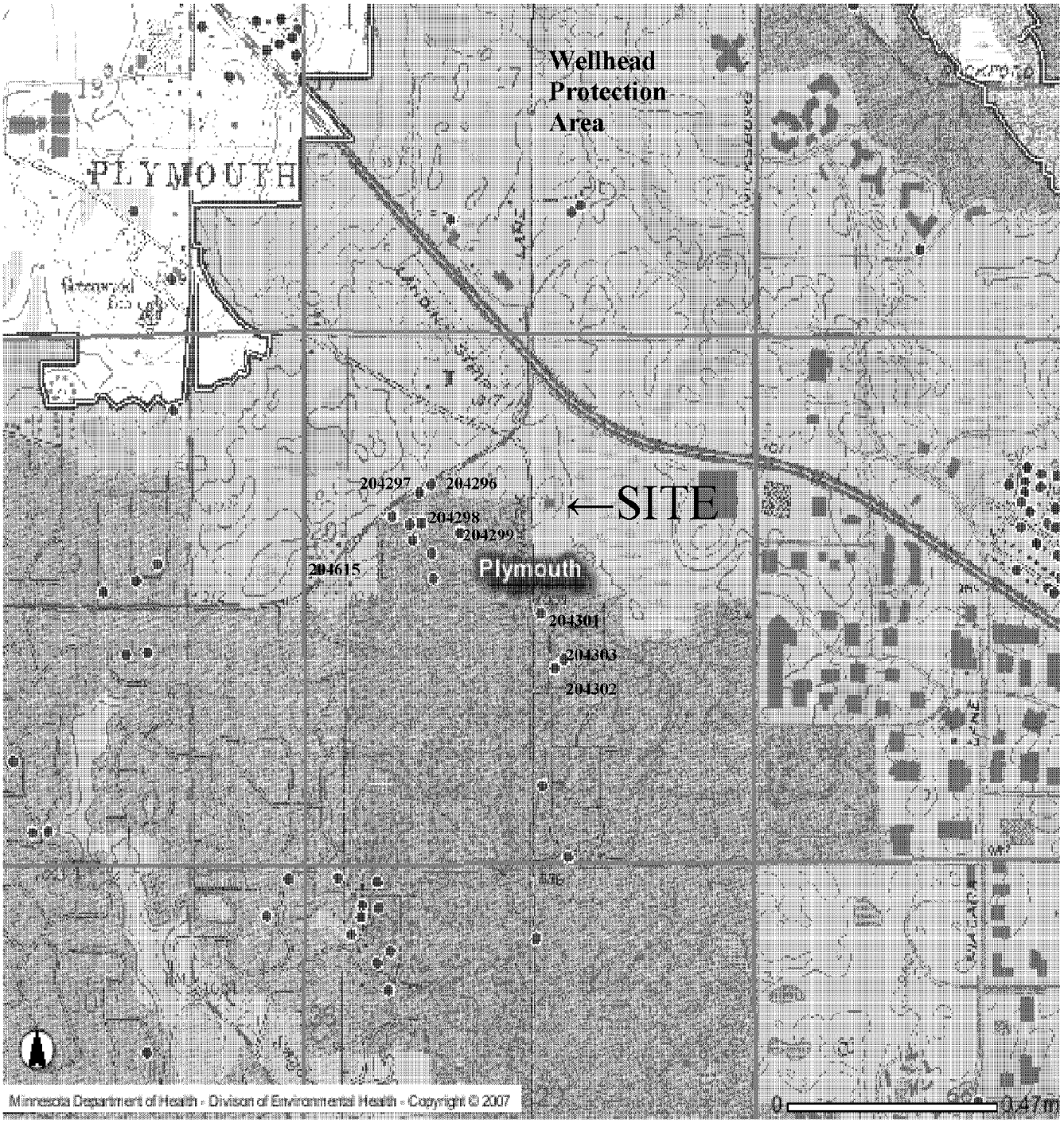
County Well Index Online Report | 224310 | Printed 9/10/2008 HE-01205-07

SITE SUMMARY

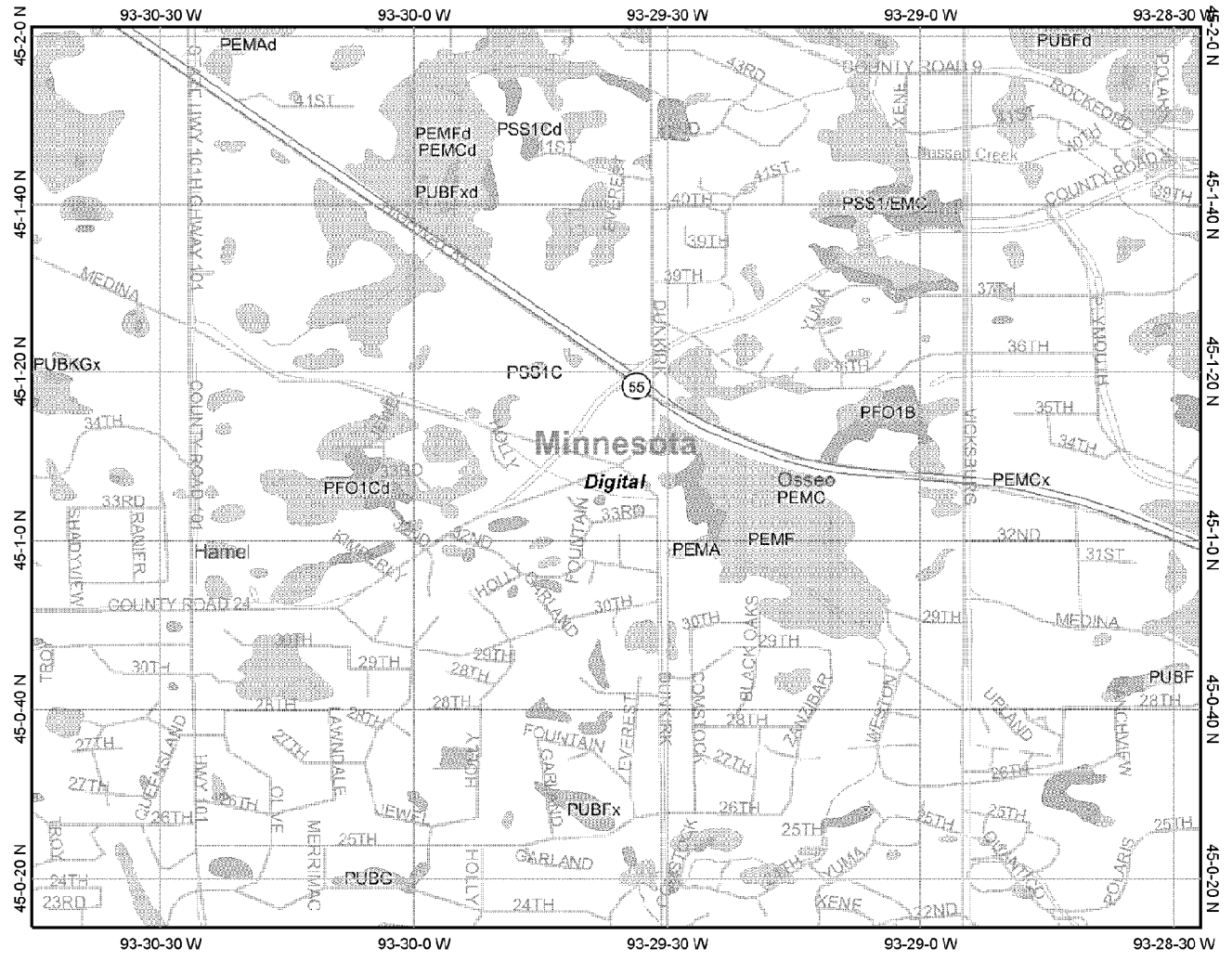
Site Name:	Plymouth - Dunkirk Lane
Fire Department:	Plymouth Fire Department 3400 Plymouth Blvd. Plymouth, MN 55447
Site Contact:	Rick Kline, Fire Chief 763-509-5121

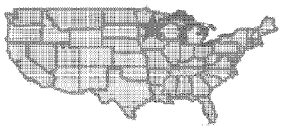
Training Location:	Fire Station 3, 3300 Dunkirk Lane, Plymouth
Training Location Coordinates (X,Y):	461306.41, 4984993.69
Type of foam used in training:	AFFF: Ansul
Foam training frequency:	Semi-annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Storm sewer
Annual foam use:	AFFF: less than 20 gallons Class A: less than 50 gallons
Nearest surface water:	Less than 1/8 mile east
Nearest wetland:	Less than 1/8 mile east
Karst Area:	Site is located in a covered karst area
Nearest water well:	Less than 1/4 mile west
Nearest Wellhead Protection Area:	Training site is located in a WPA
Nearest Source Water Assessment Area:	Less than 1 mile
SITE RANKING:	**18**

PLYMOUTH - DUNKIRK LANE CWI Well Map



Plymouth Dunkirk Ln 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

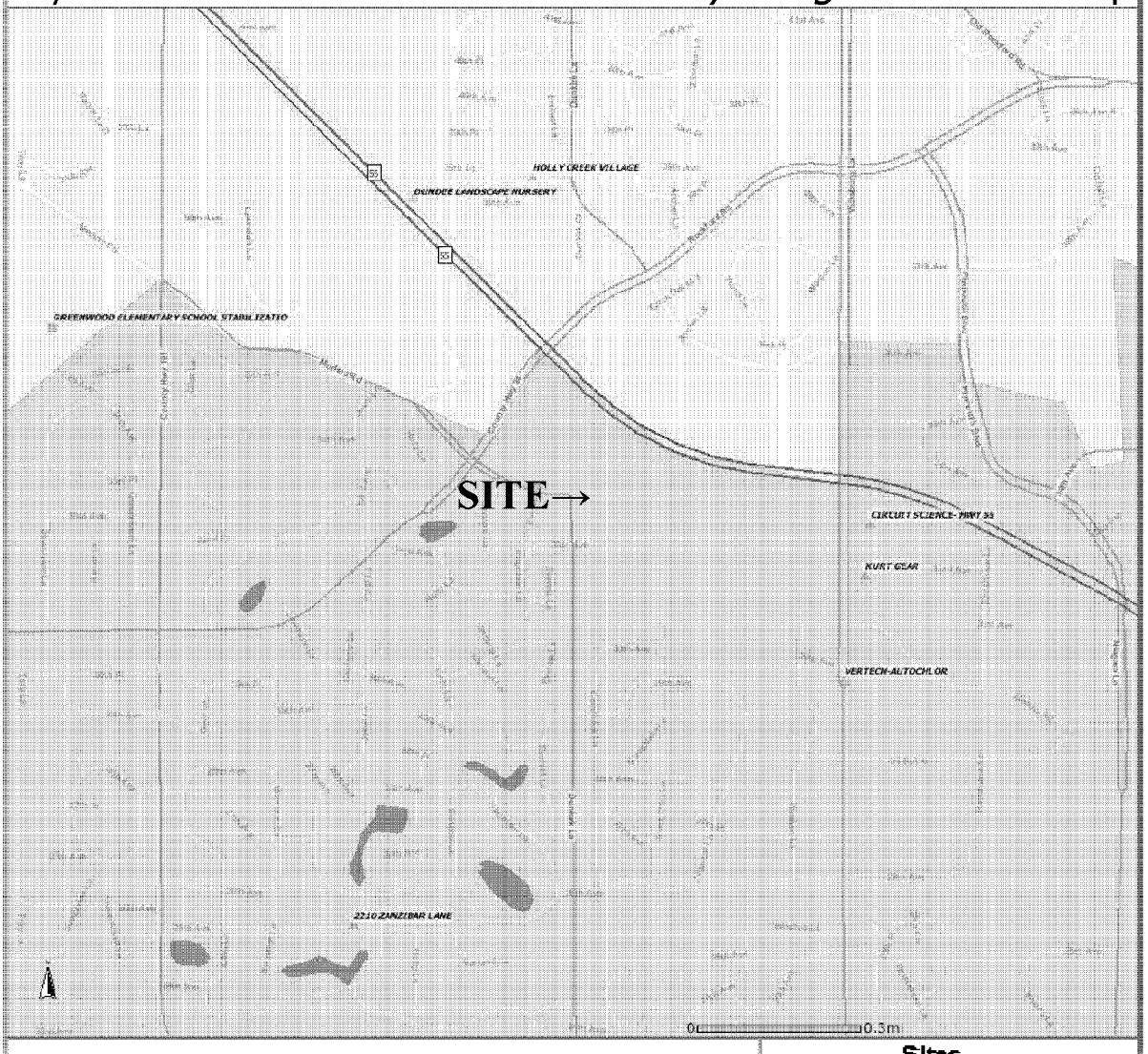
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2233.0536

STATE_02827348

Plymouth DunkirK Ln *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_02827349

2233.0537

Minnesota Unique Well No.
204296

County Hennepin
Quad Osseo
Quad ID 120C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/24/1991
Update Date 05/22/2002
Received Date

Well Name JOHN GULLICKSON
Township Range Dir Section Subsections Elevation
118 22 W 20 BDBBBD Elevation Method 1012 ft. 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
280 ft.	280 ft.	11/15/1968

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 ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 270 ft.	lbs./ft.	

Open Hole from 270 ft. to 280 ft.

Screen NO Make Type

Diameter	Slot/Gauze	Length	Set Between

Well Address
17005 24 CR
PLYMOUTH MN

Geological Material	Color	Hardness	From	To
CLAY			0	23
GRAVEL			23	44
BL CLAY			44	81
SAND GRAVEL			81	160
BLUE CLAY			160	241
SAND ROCK	WHITE		241	262
SHAKOPEE	PINK		262	278
SAND ROCK	WHITE		278	280

Static Water Level
112 ft. from Land surface Date Measured 11/15/1968

PUMPING LEVEL (below land surface)
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: 460888 Y: 4985047

Nearest Known Source of Contamination
__feet __direction __type
Well disinfected upon completion? ☑ Yes ☑ No

Pump ☑ Not Installed Date Installed 11/14/1968
Manufacturer's name FAIRBANKS MORSE Model number K2ND HP 1 Volts
Length of drop Pipe 126 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 St Peter
Last Strat Prairie Du Chien Group
Aquifer Prairie Du Chien Group
Depth to Bedrock 241 ft.

Well Contractor Certification

Renner E.H. & Sons	27015	
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report | 204296 | Printed 9/10/2008 HE-01205-07

Minnesota Unique Well No.
204297

County Hennepin
Quad Osseo
Quad ID 120C

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 GREG REDPATH
Township Range Dir Section Subsections Elevation 1010 ft.
118 22 W 20 BDBBCB Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
235 ft.	235 ft.	09/22/1971

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 231 ft.	lbs./ft.	

Open Hole from ft. to ft

Screen YES Make Type stainless steel

Diameter	Slot/Gauze	Length	Set Between

Well Address
17015 CO. RD. 24 CR
PLYMOUTH MN

Geological Material	Color	Hardness	From	To
CLAY			0	229
SAND			229	235

Static Water Level
108 ft. from Land surface Date Measured 09/22/1971

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: 460847 Y: 4985022

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 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

First Bedrock
Last Strat Sand
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

Stodola Don Well Co.	27172	
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report 204297 Printed 9/10/2008
HE-01205-07

Minnesota Unique Well No.
204298

County Hennepin
Quad Osseo
Quad ID 120C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/24/1991
Update Date 05/22/2002
Received Date

Well Name JOHN GULLICKSON
Township Range Dir Section Subsections Elevation
118 22 W 20 BDBCCB Elevation Method 1010 ft. 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
299 ft.	299 ft.	09/27/1968

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 ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 299 ft.	lbs./ft.	

Open Hole from 299 ft. to 299 ft.

Screen NO Make Type

Diameter	Slot/Gauze	Length	Set Between

Well Address
17040 32ND AV N
PLYMOUTH MN

Geological Material	Color	Hardness	From	To
SANDY CLAY	BROWN		0	30
GRAVEL	DARK		30	43
CLAY	BROWN		43	81
CLAY	GRAY		81	92
GRAVEL	DARK		92	100
CLAY	GRAY		100	225
CLAY	GRAY		225	255
DOLOMITE	PINK		255	299

Static Water Level
110 ft. from Land surface Date Measured 09/27/1968

PUMPING LEVEL (below land surface)
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: 460854 Y: 4984927

Nearest Known Source of Contamination
__feet __direction __type
Well disinfected upon completion? ☑ Yes ☑ No

Pump ☑ Not Installed Date Installed 10/15/1968
Manufacturer's name AERMCTOR Model number __ HP 0.75 Volts
Length of drop Pipe 126 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

First Bedrock Prairie Du Chien Group
Last Strat Prairie Du Chien Group
Aquifer Prairie Du Chien Group
Depth to Bedrock 255 ft.

License Business Name	Lic. Or Reg. No.	Name of Driller
Renner E.H. & Sons	27015	

County Well Index Online Report 204298 Printed 9/10/2008
HE-01205-07

Minnesota Unique Well No.
204299

County Hennepin
Quad Osseo
Quad ID 120C

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 J. GULLICKSON
Township Range Dir Section Subsections Elevation 1015 ft.
118 22 W 20 BDBDDC Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
208 ft.	208 ft.	10/25/1967

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 204 ft.	lbs./ft.	

Open Hole from ft. to ft

Screen YES Make Type stainless steel

Diameter	Slot/Gauze	Length	Set Between

Well Address
16925 CO. RD. 24 CR
WAYZATA MN

Geological Material	Color	Hardness	From	To
CLAY			0	204
SAND			204	208

Static Water Level
108 ft. from Land surface Date Measured 10/25/1967

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

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: 460991 Y: 4984898

Nearest Known Source of Contamination
__feet __direction __type
Well disinfected upon completion? ☑ Yes ☑ No

Pump ☑ Not Installed Date Installed
Manufacturer's name AERMCTOR 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

First Bedrock
Last Strat Sand
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

License Business Name	Lic. Or Reg. No.	Name of Driller
Stodola Don Well Co.	27172	

County Well Index Online Report | 204299 | Printed 9/10/2008
HE-01205-07

Minnesota Unique Well No.
204301

County Hennepin
Quad Osseo
Quad ID 120C

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 BILL CAVANAUGH
Township Range Dir Section Subsections Elevation 1009 ft.
118 22 W 20 DBBBBA Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
105 ft.	105 ft.	10/25/1970

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 99 ft.	lbs./ft.	

Well Address
2951 COMSTOCK LA
PLYMOUTH MN

Open Hole from ft. to ft

Screen YES Make 960 Type

Diameter	Slot/Gauze	Length	Set Between
4		6	0 ft. and ft.

Geological Material	Color	Hardness	From	To
CLAY	YELLOW		0	16
CLAY	BLUE		16	32
SAND + GRAVEL	BLUE		32	61
SAND GRAVEL	BROWN	HARD	61	72
HARDPAN	BROWN		72	98
SAND, GRAVEL			98	105

Static Water Level
75 ft. from Land surface Date Measured 10/25/1970

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 Digitized - scale 1:24,000 or larger (Digitizing Table)
Unique Number Verification N/A Date N/A
System UTM - Nad83, Zone15, Meters X 461279 Y 4984647

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 1.8 Volts
Length of drop Pipe 84 ft. Capacity __g.p.m Type Material

Abandoned Wells Does property have any not in 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

Mork Well Co.	02133	
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report 204301 Printed 9/10/2008
HE-01205-07

Minnesota Unique Well No.
204302

County Hennepin
Quad Osseo
Quad ID 120C

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 GREG REDPATH
Township Range Dir Section Subsections Elevation 1010 ft.
118 22 W 20 DBBCDD Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
138 ft.	138 ft.	10/24/1968

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 134 ft.	lbs./ft.	

Open Hole from ft. to ft

Screen YES Make Type stainless steel

Diameter	Slot/Gauze	Length	Set Between
4		4	134 ft. and 138 ft.

Well Address
2920 COMSTOCK LA
PLYMOUTH MN

Geological Material	Color	Hardness	From	To
CLAY AND SAND			0	126
SAND			126	138

Static Water Level
85 ft. from Land surface Date Measured 10/24/1968

PUMPING LEVEL (below land surface)
85 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 461327 Y 4984476

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 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

First Bedrock
Last Strat Sand
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft

Stodola Don Well Co.	27172	
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report 204302 Printed 9/10/2008
HE-01205-07

Minnesota Unique Well No.
204303

County Hennepin
Quad Osseo
Quad ID 120C

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 ROBERT RODERICK
Township Range Dir Section Subsections Elevation
118 22 W 20 DBBDCD Elevation Method
1015 ft.
7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
169 ft.	169 ft.	04/17/1969

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 165 ft.	lbs./ft.	

Open Hole from ft. to ft

Screen YES Make Type stainless steel

Diameter	Slot/Gauze	Length	Set Between
4		4	0 ft. and ft.

Well Address
16520 29TH AV N
PLYMOUTH MN

Geological Material	Color	Hardness	From	To
CLAY			0	162
SAND			162	169

Static Water Level
103 ft. from Land surface Date Measured 04/17/1969

PUMPING LEVEL (below land surface)
103 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 461360 Y 4984504

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 25 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
Stodola Don Well Co. 27172
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report 204303 Printed 9/10/2008
HE-01205-07

SITE SUMMARY

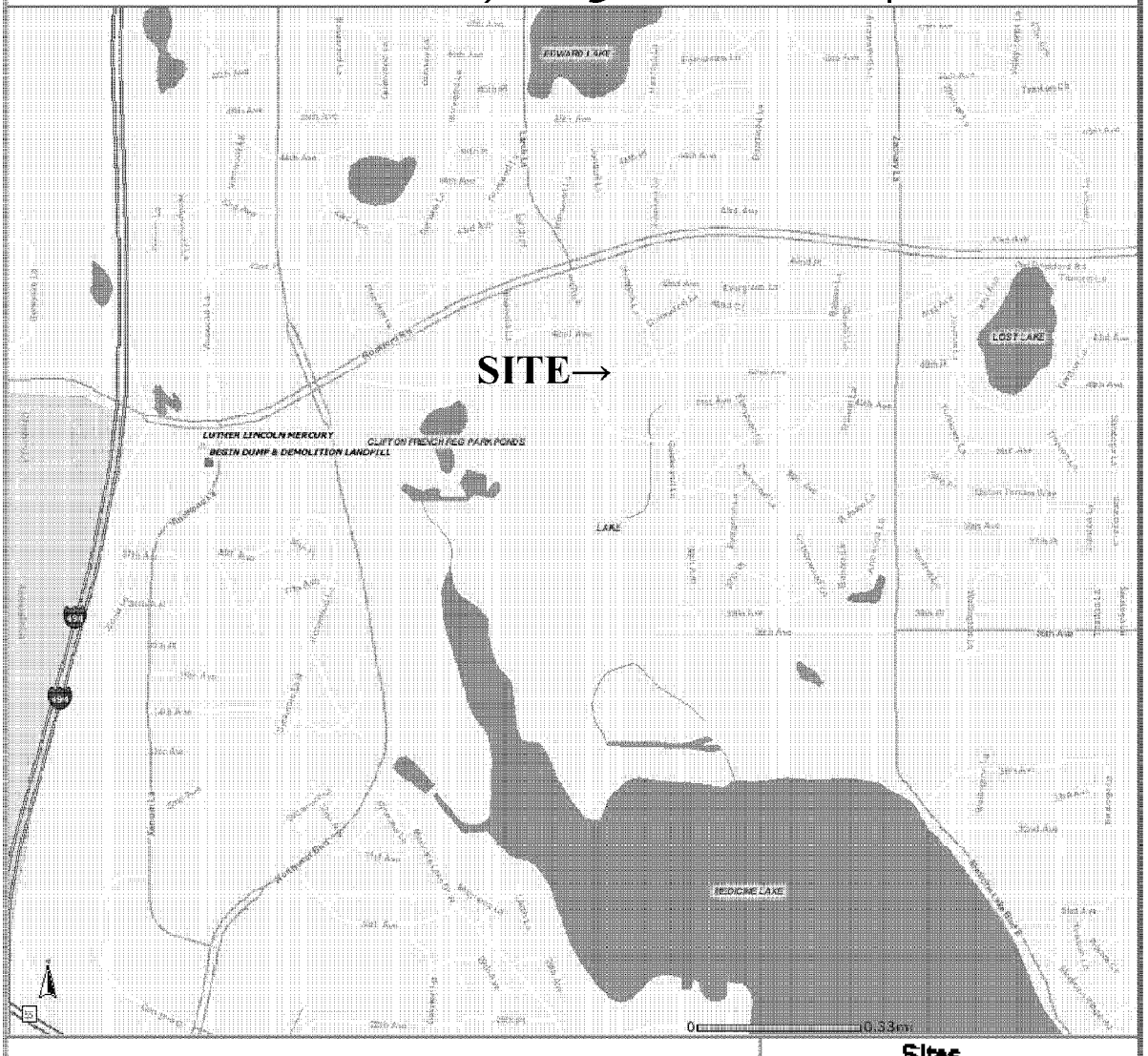
Site Name: Plymouth - Old Rockford Road

Fire Department: Plymouth Fire Department
3400 Plymouth Blvd.
Plymouth, MN 55447

Site Contact: Rick Kline, Fire Chief
763-509-5121

Training Location:	Fire Station 2, 12000 Old Rockford Road, Plymouth
Training Location Coordinates (X,Y):	465932.53, 4986344.76
Type of foam used in training:	AFFF: Ansul
Foam training frequency:	Semi-annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Storm sewer
Annual foam use:	AFFF: less than 20 gallons Class A: less than 50 gallons
Nearest surface water:	Less than 1/8 mile north and west
Nearest wetland:	Less than 1/8 mile north
Karst Area:	Site is located in a covered karst area
Nearest water well:	Less than 1/8 mile north
Nearest Wellhead Protection Area:	Training site is located in a WPA
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**18**

Plymouth Old Rockford
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

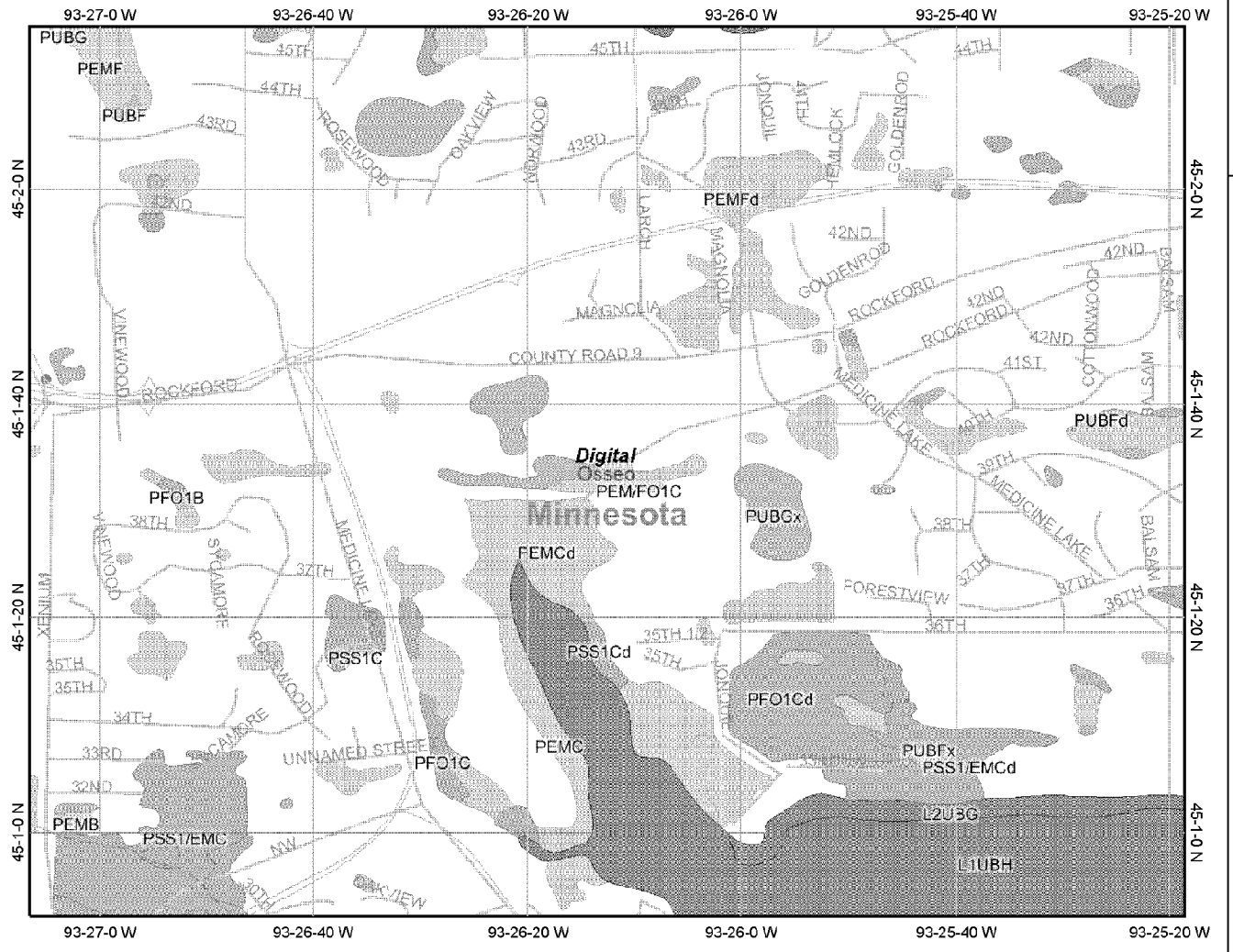
Sites

- 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

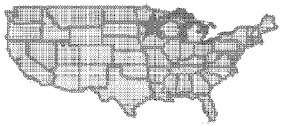
STATE_02827358

2233.0546

Plymouth Old Rockford Rd Wetland Map



Map center: 45° 1' 34" N, 93° 26' 13" 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

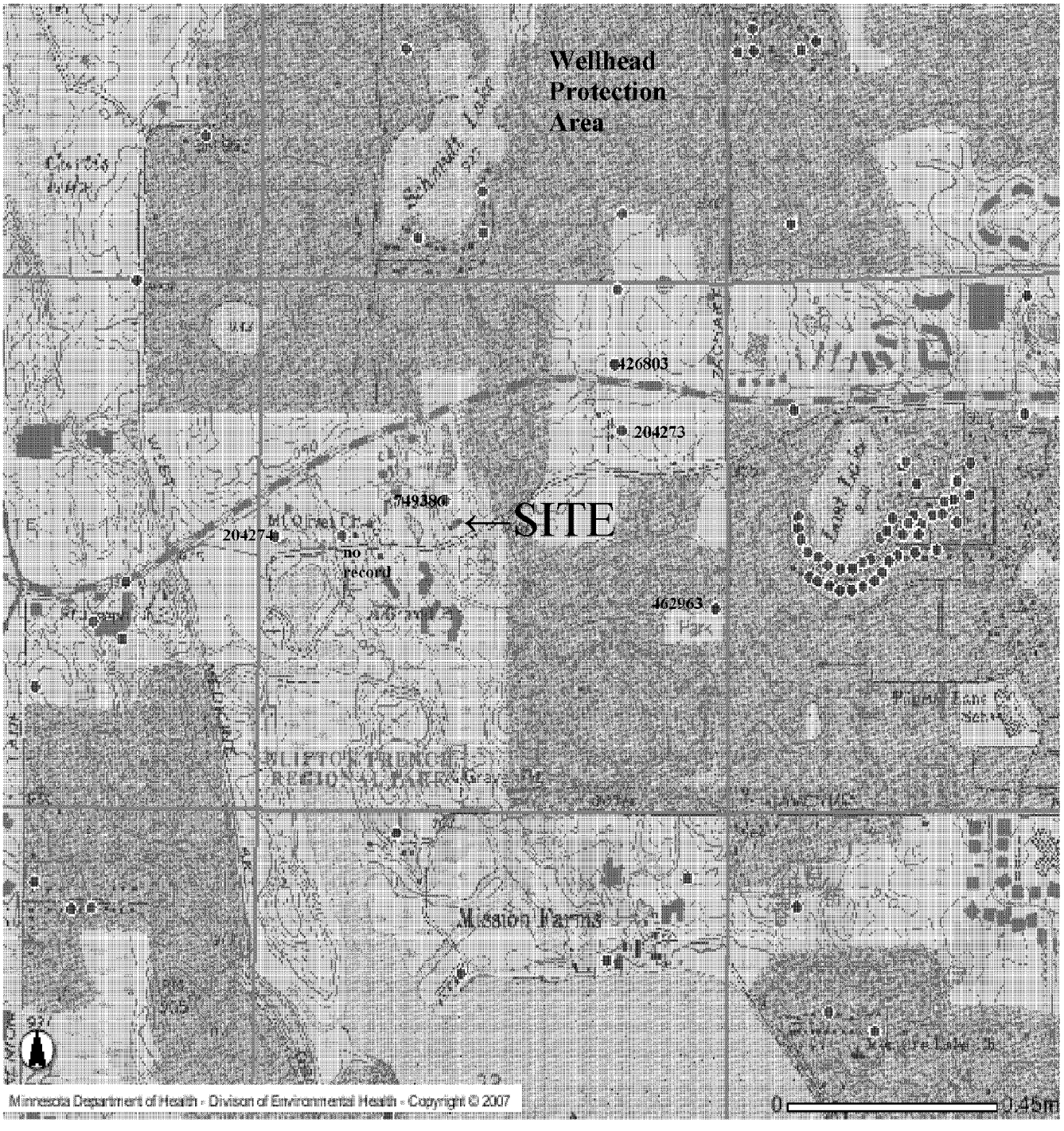
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This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

2233.0547

STATE_02827359

PLYMOUTH - OLD ROCKFORD ROAD CWI Well Map



Minnesota Unique Well No.
204273

County Hennepin
Quad Osseo
Quad ID 120C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/24/1991
Update Date 05/21/2002
Received Date

Well Name TOM FORSTER
Township Range Dir Section Subsections Elevation
118 22 W 14 ADBBBD Elevation Method
970 ft.
7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
211 ft.	211 ft.	07/29/1959

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 ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 169 ft.	lbs./ft.	

Open Hole from 169 ft. to 211 ft.

Screen NO Make Type

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
88 ft. from Land surface Date Measured 07/29/1959

PUMPING LEVEL (below land surface)
96 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)

Well Address
11510 ROCKFORD RD
PLYMOUTH MN

Geological Material	Color	Hardness	From	To
CLAY, SOME BOULDER			0	72
HARDPAN			72	79
SAND, SOME GRAVEL + CLAY			79	139
BOULDERS			139	141
GRAVEL, SOME CLAY			141	147
CLAY, SOME GRAVEL			147	160
SAND			160	164
CLAY, SOME GRAVEL			164	167
ST. PETER SANDSTONE			167	194
SHALEY SANDSTONE			194	204
SANDSTONE			204	211

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: 466487 Y: 4986613

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 15S4 H HP 1.5 Volts 220
Length of drop Pipe 105 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

Tri-state Well Co.	27118	BENEKE, R.
License Business Name	Lic. Or Reg. No.	Name of Driller

First Bedrock St.Peter
Last Strat St.Peter
Aquifer St.Peter
Depth to Bedrock 167 ft.

County Well Index Online Report 204273 Printed 9/10/2008
HE-01205-07

Minnesota Unique Well No.
204274

County Hennepin
Quad Osseo
Quad ID 120C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 08/24/1991
Update Date 05/21/2002
Received Date

Well Name JEROME BEGIN
Township Range Dir Section Subsections Elevation 910 ft.
118 22 W 14 BCCCCA Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
160 ft.	160 ft.	11/06/1959

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 ft.

Casing Diameter	Weight	Hole Diameter
5 in. to 143 ft.	lbs./ft.	

Open Hole from 143 ft. to 160 ft.

Screen NO Make Type

Diameter	Slot/Gauze	Length	Set Between

Well Address
12710 ROCKFORD RD
PLYMOUTH MN

Geological Material	Color	Hardness	From	To
GLACIAL DRIFT			0	109
PLATTVILLE LIMESTONE			109	145
ST. PETER SANDSTONE			145	160

Static Water Level
67 ft. from Land surface Date Measured 11/06/1959

PUMPING LEVEL (below land surface)
78 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
HARDNESS - 21 GRAINS FE - 1.7 PPM

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 465302 Y 4986297

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 1L4 HP 1 Volts 220
Length of drop Pipe 120 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

First Bedrock Prairie Du Chien Group
Last Strat Prairie Du Chien Group
Aquifer Prairie Du Chien Group
Depth to Bedrock 109 ft.

Tri-state Well Co.	27118	
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report 204274 Printed 9/10/2008
HE-01205-07

Minnesota Unique Well No.
426803

County Hennepin
Quad Osseo
Quad ID 120C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 03/06/1993
Update Date 03/11/2005
Received Date

Well Name PLYMOUTH (P-3)
Township Range Dir Section Subsections Elevation 966 ft.
118 22 W 14 AACBCB Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
328 ft.	328 ft.	08/12/1986

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☑ Yes ☑ No
From Ft. to Ft.

Use Test well

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 155 ft.	10.79 lbs./ft.	8 in. to 155 ft.
		4 in. to 328 ft.

Open Hole from 155 ft. to 328 ft.

Screen NO Make Type

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
91 ft from Land surface Date Measured 08/06/1986

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)

Well Address
11510 9 CR
PLYMOUTH MN 55447

Geological Material	Color	Hardness	From	To
CLAY (FILL)	BROWN	SOFT	0	3
CLAY	BLACK	SOFT	3	5
CLAY	BLUE	MEDIUM	5	35
SILTY SANDY CLAY	RED	MEDIUM	35	45
SANDY CLAY & GRAVEL	RED	MEDIUM	45	55
SANDY CLAY & GRAVEL	RED	SOFT	55	60
GRAVEL	VARIED	SOFT	60	68
GRAVEL, CLAY, SAND	RED	MEDIUM	68	75
SILTY SANDY GRAVEL	RED	MEDIUM	75	149
SHALEY SANDSTONE	GRN/GRY	HARD	149	155
SANDSTONE (ST. PETER)	GRAY	HARD	155	165
LIMESTONE (SHAKOPEE)	BRN/ORN	HARD	165	322
SANDSTONE (JORDAN)	WHITE	V.SOFT	322	328

REMARKS
M.G.S. NO.2542.

Grouting Information Well Grouted? ☑ Yes ☑ No

Grout Material: Neat Cement from 0 to 155 ft. 1.5 yrds.

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: 466462 Y: 4986811

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 St Peter
Last Strat Jordan
Aquifer Prairie Du Chien-Jordan
Depth to Bedrock 149 ft.

Well Contractor Certification
Bergerson-Caswell 27058
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report 426803 Printed 9/10/2008
HE-01205-07

Minnesota Unique Well No.
462963

County Hennepin
Quad Osseo
Quad ID 120C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 03/06/1993
Update Date 05/06/2005
Received Date

Well Name PLYMOUTH MW MARION PARK
Township Range Dir Section Subsections Elevation — 932 ft.
118 22 W 14 DAADDC Elevation Method — 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
320 ft.	320 ft.	01/18/1991

Drilling Method Non-specified Rotary

Drilling Fluid Bentonite

Well Hydrofractured? ☑ Yes ☑ No
From Ft. to Ft.

Well Address
3950 ZACHARY LA N
PLYMOUTH MN 55447

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
4 in. to 187 ft.	10.79 lbs./ft.	4 in. to 320 ft.

Open Hole from 187 ft. to 320 ft.

Screen NO Make Type

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
TOP SOIL	BLACK	SOFT	0	2
SANDY CLAY	GRAY		2	15
CLAY	BROWN	SOFT	15	25
GRAVEL	DARK	SOFT	25	45
CLAY	BROWN		45	50
GRAVEL	GRAY	SOFT	50	78
CLAY	RED		78	98
GRAVEL	BROWN	SOFT	98	105
CLAY	RED		105	115
GRAVEL & ROCKS	BROWN		115	135
SAND & GRAVEL	BROWN	SOFT	135	160
ST. PETER SANDSTONE	WHITE		160	177
SHAKOPEE DOLOMITE	TAN	HARD	177	187
ST. PETER SANDSTONE	TAN		187	230
DOLOMITE	TAN/YEL		230	247
DOLOMITE	TAN		247	256
DOLOMITE	TAN/YEL		256	278
DOLOMITE	TAN/WHT		278	295
SANDSTONE	WHT/PNK		295	320

Static Water Level
72 ft from Land surface Date Measured 01/17/1991

PUMPING LEVEL (below land surface)
100 ft. after 3 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)

REMARKS
M.G.S. NO. 3199.
WELL SEALED 04-19-1993 BY 27010
ORIGINAL USE MW - MONITOR WELL

Grouting Information Well Grouted? ☑ Yes ☑ No

Grout Material: Neat Cement from 0 to 187 ft. 40 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: 466808 Y: 4986080

Nearest Known Source of Contamination
90 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

Renner E.H. Well	71015	PRAUGHT, V.
License Business Name	Lic. Or Reg. No.	Name of Driller

First Bedrock St Peter
Last Strat Jordan
Aquifer Prairie Du Chien-Jordan
Depth to Bedrock 160 ft.

County Well Index Online Report — 462963 — Printed 9/10/2008
HE-01205-07

Minnesota Unique Well No. **749386**

County Hennepin
Quad Osseo
Quad ID 120C

MINNESOTA DEPARTMENT OF HEALTH

WELL AND BORING RECORD

Minnesota Statutes Chapter 103I

Entry Date 05/22/2007
Update Date 02/15/2008
Received Date 07/05/2007

Well Name PLYMOUTH TW-16

Township	Range	Dir	Section	Subsections	Elevation	Elevation Method
118	22	W	14	BDDBCA	933 ft.	7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
408 ft.	408 ft.	04/27/2007

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 Threaded Drive Shoe? ☑ Yes ☑ No Above/Below ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 152 ft.	10.79 lbs./ft.	8.75 in. to 150 ft.
		4 in. to 408 ft.

Open Hole from 153 ft. to 408 ft.

Screen NO Make Type

Diameter	Slot/Gauze	Length	Set Between

Well Address
12000 OLD ROCKFORD RD
PLYMOUTH MN 55441

Geological Material	Color	Hardness	From	To
ROCKY SANDY CLAY	BROWN	SOFT	0	38
SAND	BROWN	SOFT	38	42
CLAY ROCK	BROWN	SOFT	42	53
SAND TOOK WATER	BROWN	SOFT	53	97
CLAY ROCKS	BROWN	MEDIUM	97	98
SAND GRAVEL	BROWN	SOFT	98	116
CLAY GRAVEL	BROWN	MEDIUM	116	123
SANDSTONE SHALE	GRY/WHT	HARD	123	125
SANDSTONE SHALE	GRY/WHT	HARD	125	148
SANDSTONE SHALE GRY WHT ORG	VARIED	HARD	148	150
SANDSTONE SHALE GRY WHT ORG	VARIED	HARD	150	154
SANDSTONE TAN GRN ORG	VARIED	HARD	154	213
SANDSTONE	BRN/TAN	HARD	213	292
SANDSTONE	WHITE	SOFT	292	308
SANDSTONE	WHITE	SOFT	308	398
SANDSTONE SHALE BRN TAN GRY		HARD	398	408

Static Water Level
62 ft from Top of casing extension Date Measured 04/27/2007

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 5-16-2007. M.G.S. NO. 4696. LOGGED BY JIM TRAEN.

Grouting Information Well Grouted? ☑ Yes ☑ No

Grout Material: Neat Cement	from 20 to 153 ft.	45	bags
Grout Material: Neat Cement	from to 20 ft.	10	bags

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Info/GPS from data source
Date 05/22/2007
System UTM - Nad83, Zone15, Meters
X: 465886 Y: 4966405

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
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 St Peter
Last Strat St.Lawrence
Aquifer Prairie Du Chien-Jordan
Depth to Bedrock 125 ft.

Well Contractor Certification

EH Renner and Sons, Inc.	1431	PRAUGHT, L.
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report | 749386 | Printed 9/10/2008 HE-01205-07

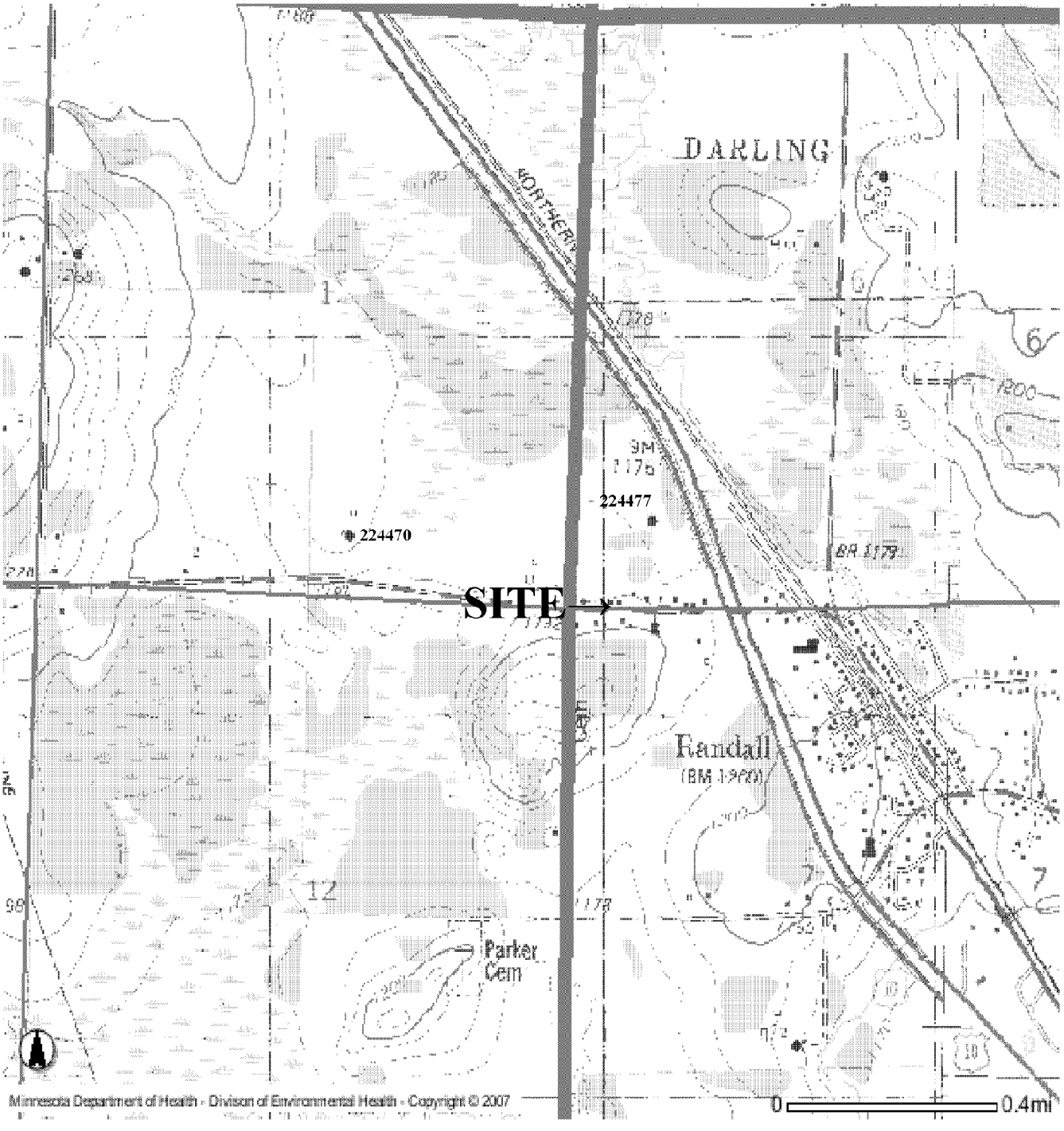
- **Randall**

SITE SUMMARY

Site Name:	Randall
Fire Department:	Randall Fire Department 105 Maplewood Drive Randall, MN 56475
Site Contact:	Pat Boone, Fire Chief 320-360-5240 Patrick.j.boone@us.army.mil

Training Location:	Lot across from the fire station
Training Location Coordinates (X,Y):	383015.77, 5105488.16
Type of foam used in training:	Class A/B Pyrocom sticks
Foam training frequency:	Annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Ground
Annual foam use:	Class A/B Pyrocom sticks: less than 5 gallons (1 stick Class B and 2 sticks Class A) Class A Ansul Silv-ex: 30 gallons
Nearest surface water:	More than 1 mile
Nearest wetland:	Approximately 1/4 mile west and southwest
Karst Area:	Site is not located in a karst area.
Nearest water well:	Less than 1/4 mile northeast
Nearest Wellhead Protection Area:	More than 1 mile
Nearest Source Water Assessment Area:	Less than 1/4 mile
SITE RANKING:	**12**

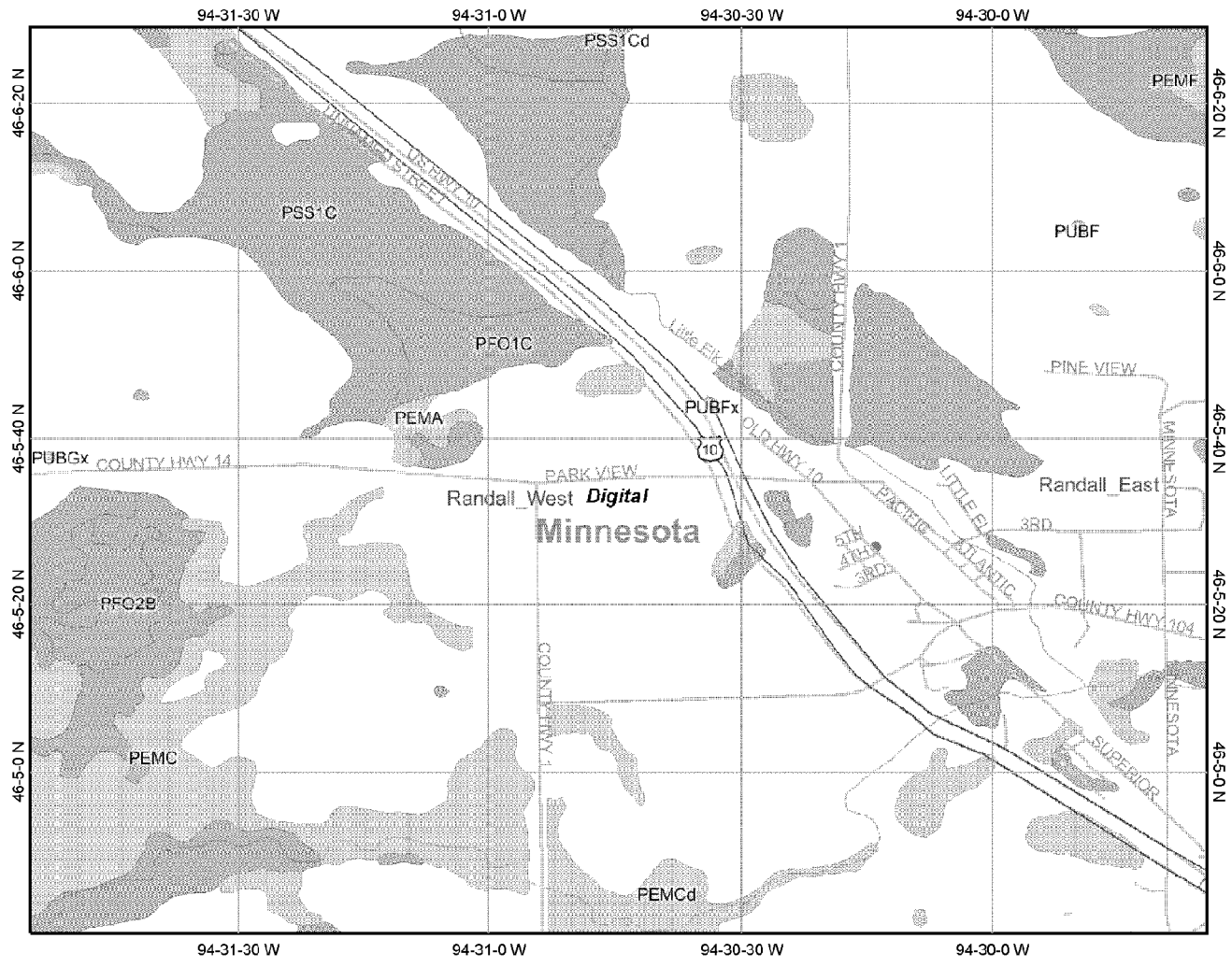
RANDALL CWI Well Map



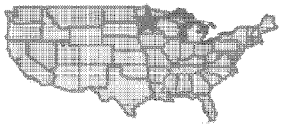
STATE_02827368

2233.0556

Randall Wetland Map



Map center: 46° 5' 35" N, 94° 30' 45" 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

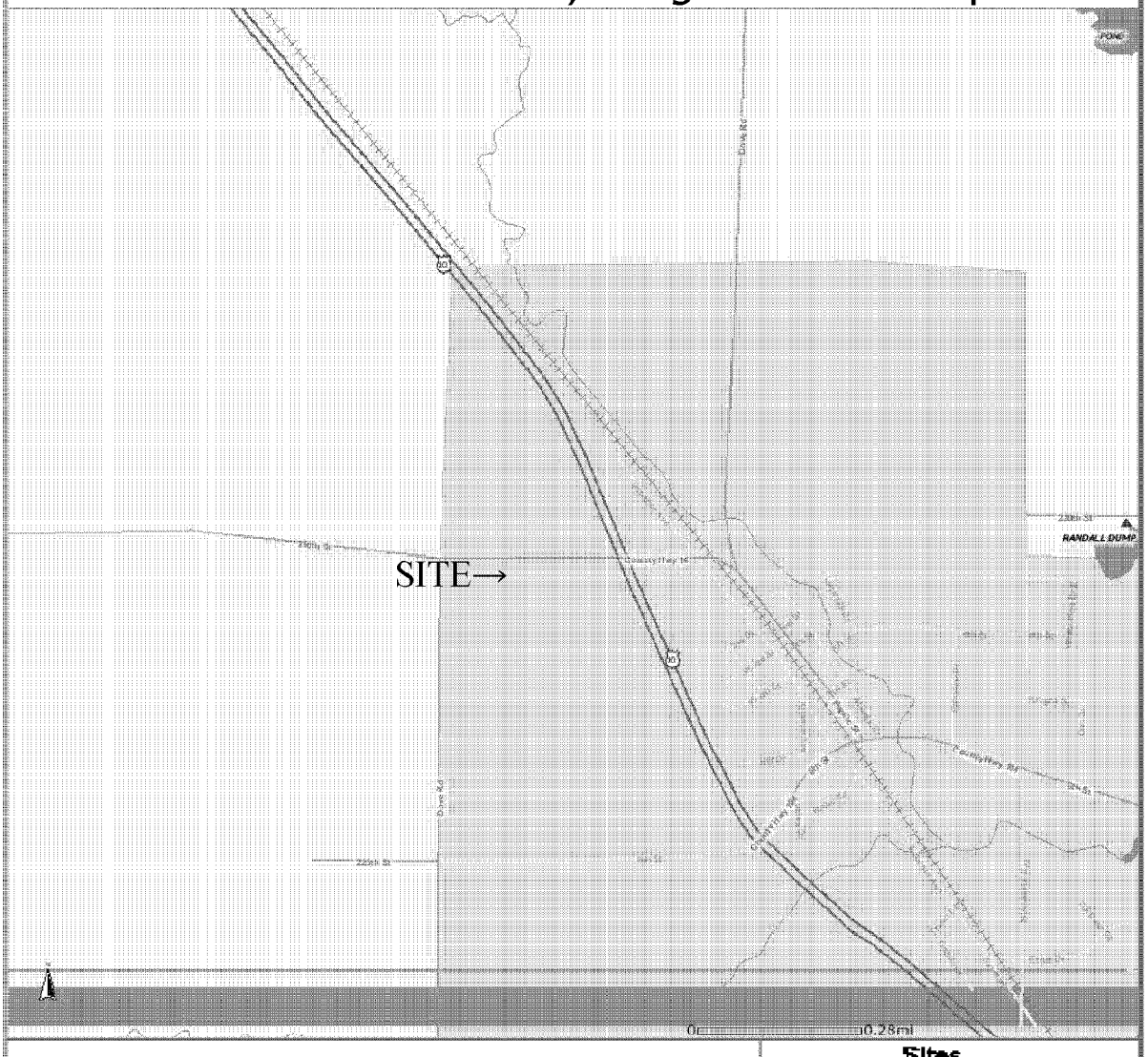
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2233.0557

STATE_02827369

Randall *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.
224470

County Morrison
Quad Randall West
Quad ID 195D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/13/1988
Update Date 05/24/2004
Received Date

Well Name SCHMIDT, EUGENE
Township Range Dir Section Subsections Elevation 1181 ft.
130 31 W 1 DCCAB Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
46 ft.	46 ft.	00/00/1948

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
6 in. to 42 ft.	lbs./ft.	

Well Address

RANDALL MN 56475

Geological Material	Color	Hardness	From	To
CLAY			0	41
SAND			41	46

Open Hole from ft. to ft

Screen YES Make Type

Diameter	Slot/Gauze	Length	Set Between
6		4	42 ft. and 46 ft.

Static Water Level
-1 ft. from Land surface Date Measured 00/00/1948

PUMPING LEVEL (below land surface)
ft. after hrs. pumping 1.5 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☑ Casing Protection ☑ 12 in. above grade
☑ At-grade (Environmental Wells and Borings ONLY)

REMARKS
WELL FLOWS.

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: 382222 Y: 5105690

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 Sand
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

United States Geological Survey	USGS	OOTHOUDT, E.
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report | 224470 | Printed 9/15/2008
HE-01205-07

Minnesota Unique Well No.
224477

County Morrison
Quad Randall West
Quad ID 195D

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/13/1988
Update Date 06/27/2006
Received Date

Well Name RANDALL TEST WELL
Township Range Dir Section Subsections Elevation 1175 ft.
130 30 W 6 CCACCD Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
114 ft.	111 ft.	

Drilling Method --
Drilling Fluid --
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
in. to 96 ft.	lbs./ft.	

Well Address
RANDALL MN 56475

Geological Material	Color	Hardness	From	To
CLAY			0	18
QUICKSAND			18	40
FINE SAND			40	45
FINE SAND			45	50
FINE SAND			50	55
GRAVEL			55	60
GRAVEL			60	72
CLAY	BLUE		72	94
SAND			94	113
IRON ORE			113	114

Open Hole from ft. to ft
Screen YES Make Type

Diameter	Slot/Gauze	Length	Set Between
		15	96 ft. and 111 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
FIRST WELL BEAME TOO HIGH IN MN & FE.

Grouting Information Well Grouted? ☑ Yes ☑ No

Located Minnesota Geological Survey Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Information from owner Date 06/27/2006
System UTM - Nad83, Zone15, Meters X: 383133 Y: 5105728

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 Precambrian Crystalline Roc
Last Strat Precambrian Crystalline Roc
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock 113 ft.

United States Geological Survey	USGS	OOTHOUDT, E.
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report | 224477 | Printed 9/15/2008
HE-01205-07

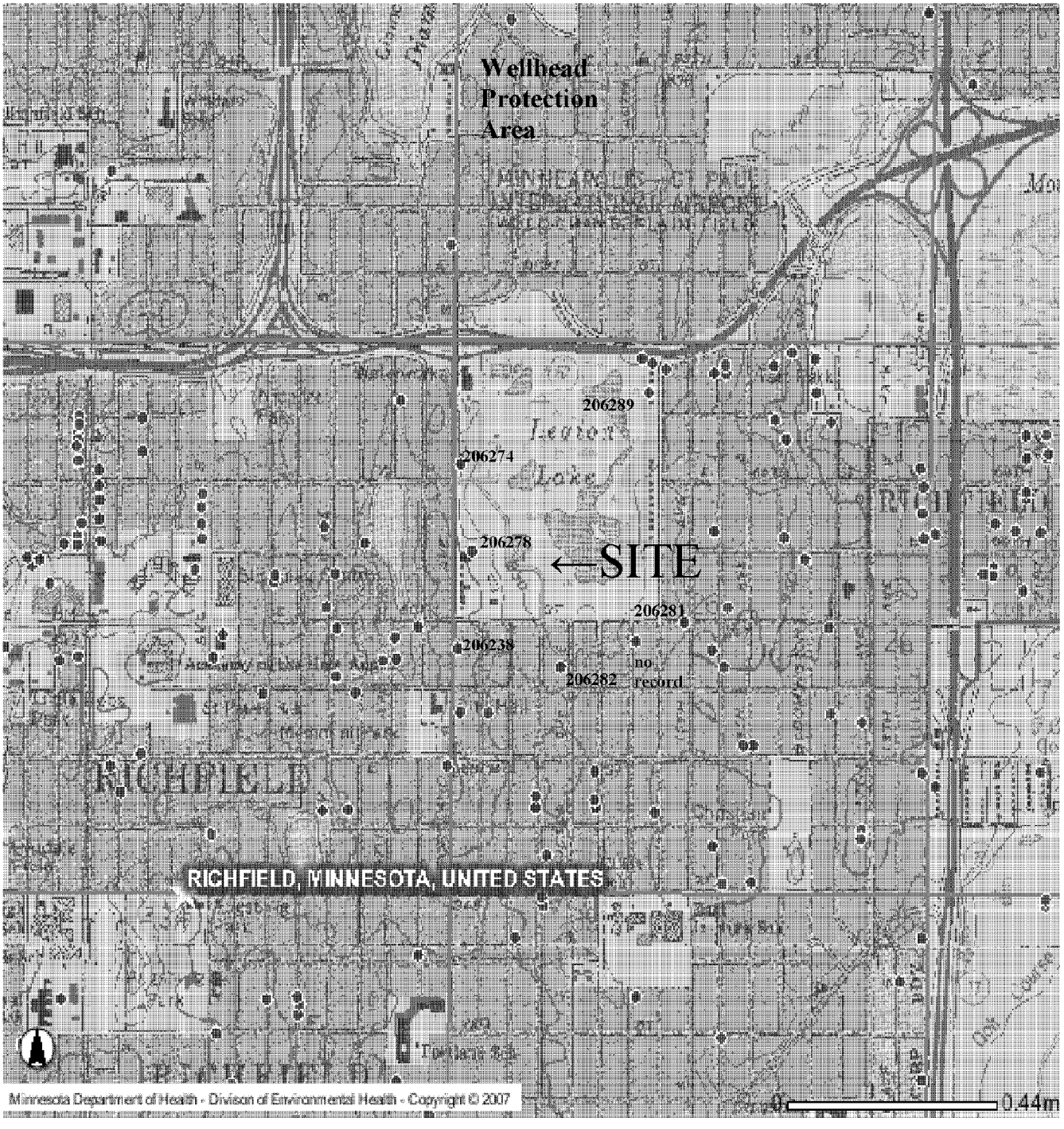
- **Richfield**

SITE SUMMARY

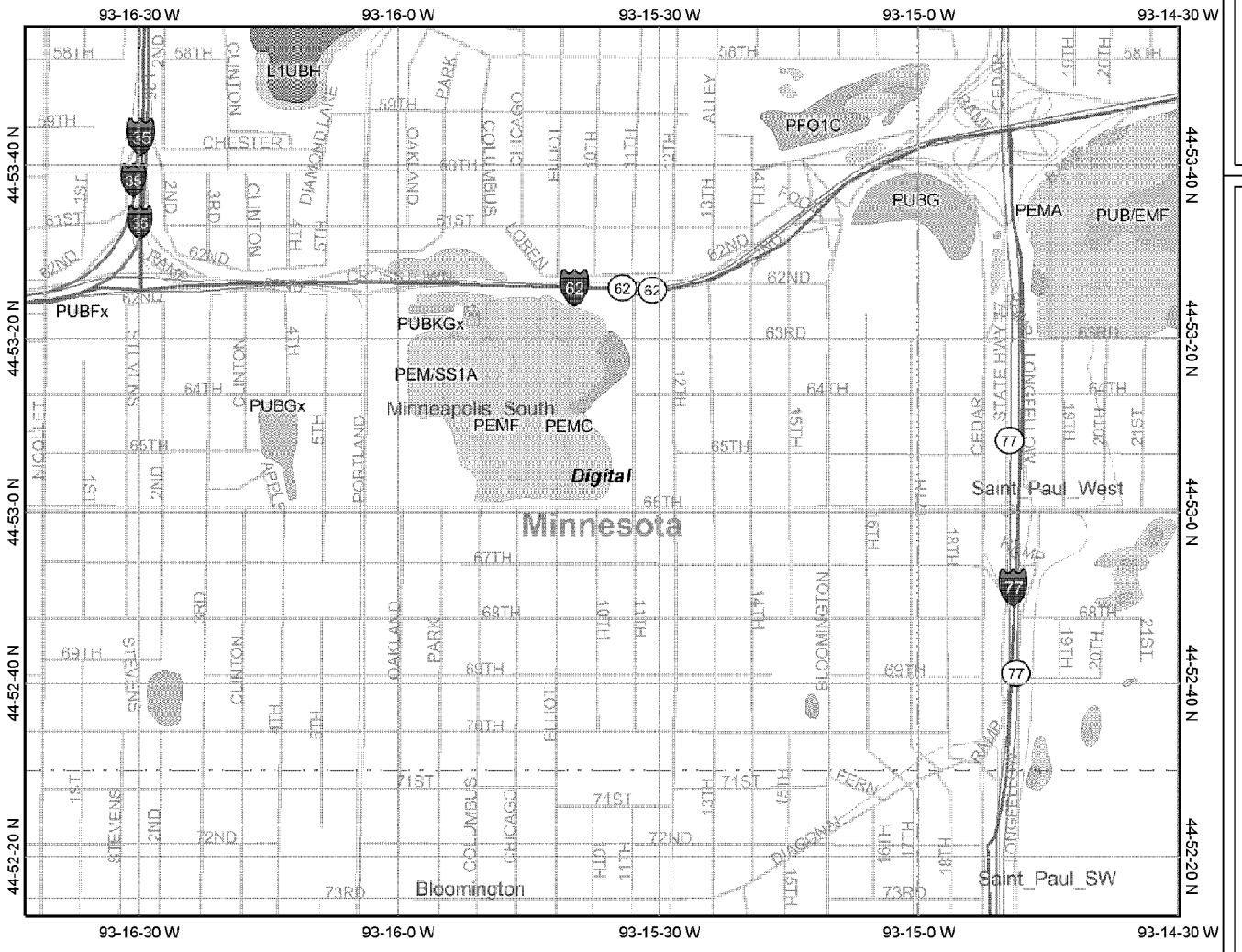
Site Name:	Richfield
Fire Department:	Richfield Fire Department 6700 Portland Ave. Richfield, MN 55423
Site Contact:	Brad Sveum, Fire Chief 612-243-4502

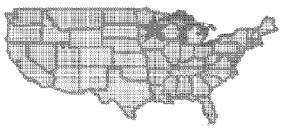
Training Location:	Richfield ice arena, 636 E. 66th Street
Training Location Coordinates (X,Y):	479089.13, 4970143.5
Type of foam used in training:	AFFF: 3M-brand historically used Training Foam: National training foam
Foam training frequency:	Approximately bi-annually
Foam use per training event:	30 to 40 gallons to cover all department shifts
Spent foam destination:	Ground, storm sewer
Annual foam use:	AFFF: Uncertain Class A: 50 gallons
Nearest surface water:	Legion Lake less than 1/8 mile east
Nearest wetland:	Less than 1/8 mile east
Karst Area:	Site is located in a covered karst area
Nearest water well:	Less than 1/4 mile to the west
Nearest Wellhead Protection Area:	Training site located within a WPA
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**30**

RICHFIELD CWI Well Map



Richfield 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: 1:22,252

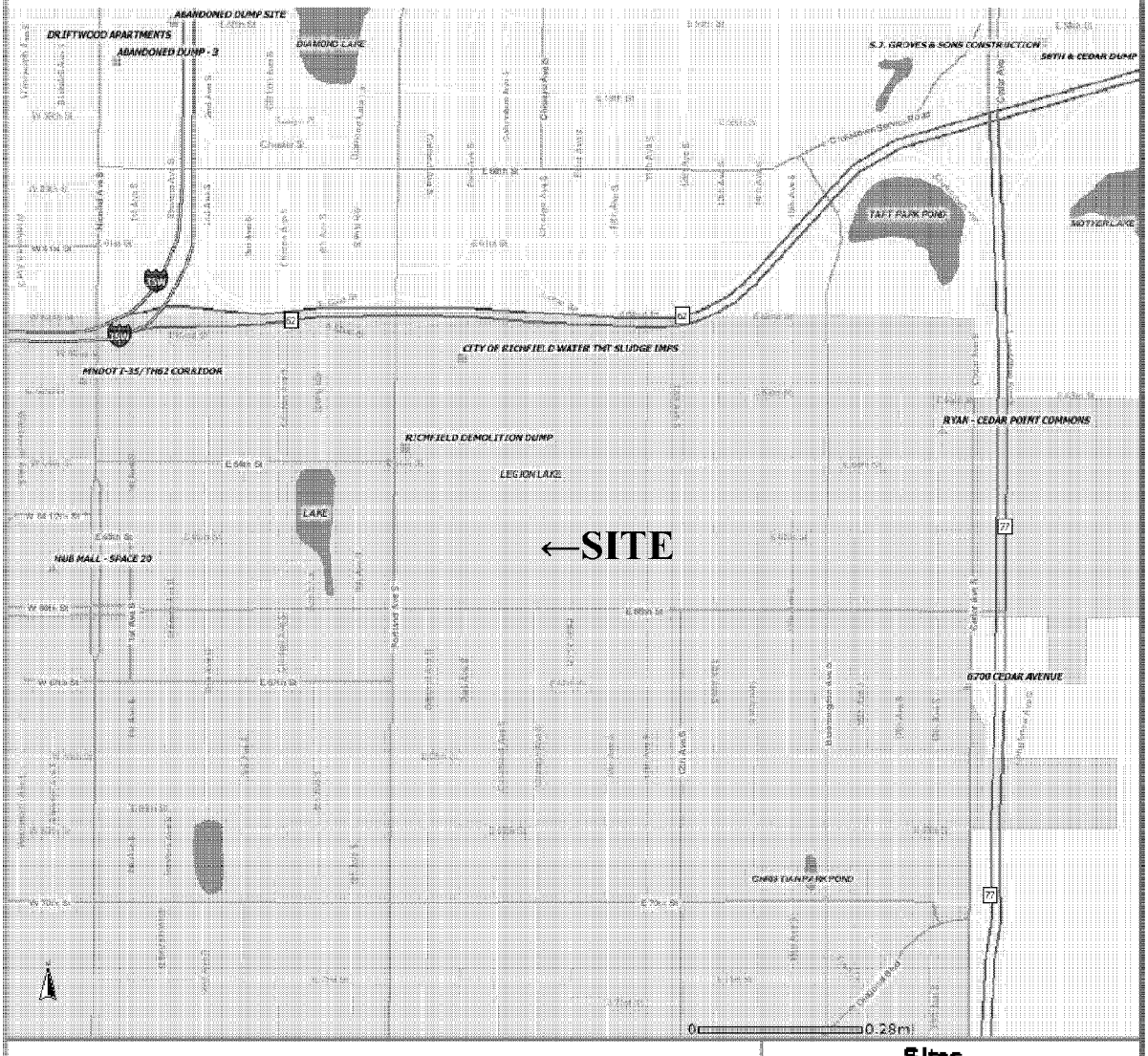
Map center: 44° 53' 5" N, 93° 15' 36" W

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2233.0564

STATE_02827376

Richfield *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 T&D Facilities
- RCRA Investigation & Cleanup
- State Assessment

STATE_02827377

2233.0565

Minnesota Unique Well No.
206274

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 OKERMAN AND HUNTSTEAD
Township Range Dir Section Subsections Elevation
28 24 W 26 BBCCCC Elevation Method 845 ft. 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
49 ft.	49 ft.	11/30/1960

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
2 in. to 46 ft.	lbs./ft.	

Open Hole from ft. to ft

Screen YES Make JOHNSON Type

Diameter	Slot/Gauze	Length	Set Between
1.3	8	4	0 ft. and ft.

Well Address
6339 PORTLAND AV S
RICHFIELD MN

Geological Material	Color	Hardness	From	To
SAND			0	10
HARDPACKED SAND			10	18
SAND AND GRAVEL			18	49

Static Water Level
30 ft. from Land surface Date Measured 11/30/1960

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 478873 Y 4970493

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
Aquifer Quat. Water Table Aquifer
Depth to Bedrock ft

Well Contractor Certification
Aamot Well Co. 27052
License Business Name Lic. Or Reg. No. Name of Driller

County Well Index Online Report 206274 Printed 9/10/2008
HE-01205-07

Minnesota Unique Well No.
206278

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 LEGION POST 435
Township Range Dir Section Subsections Elevation 848 ft.
28 24 W 26 BCCBBA Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
168 ft.	168 ft.	06/16/1971

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 108 ft.	lbs./ft.	

Open Hole from ft. to ft

Screen Make Type

Diameter	Slot/Gauze	Length	Set Between

Well Address
6501 PORTLAND AV S
RICHFIELD MN

Geological Material	Color	Hardness	From	To
SAND, CLAY, ROCK			0	72
SAND, GRAVEL			72	89
CLAY, GRAVEL			89	104
LIMEROCK			104	168

Static Water Level
74 ft. from Land surface Date Measured 06/16/1971

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: 478910 Y: 4970239

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 Platteville
Last Strat Platteville
Aquifer Platteville
Depth to Bedrock 104 ft.

License Business Name	Lic. Or Reg. No.	Name of Driller
Aamot Well Co.	27062	

County Well Index Online Report 206278 Printed 9/10/2008
HE-01205-07

Minnesota Unique Well No.
206281

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 06/03/2004
Received Date

Well Name SKELLY OIL CO.
Township Range Dir Section Subsections Elevation
28 24 W 26 CAAAAA Elevation Method
840 ft.
7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
243 ft.	243 ft.	10/20/1960

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
5 in. to 205 ft.	lbs./ft.	

Well Address

RICHFIELD MN

Geological Material	Color	Hardness	From	To
SAND	BROWN		0	60
GRAVEL	GRAY		60	70
CLAY, STONES	BROWN		70	90
GRAVEL	GRAY		90	91
SANDY CLAY	BROWN		91	128
SANDY SHALE	LIGHT		128	150
STICKY CLAY, STONES	GRAY		150	165
CLAY	BLUE		165	190
SAND + ROCK	LIGHT		190	200
HEAVY GRAVEL	LIGHT		200	210
HARD SAND	GRAY	HARD	210	212
SHAKOPEE			212	243

Open Hole from ft. to ft

Screen Make Type

Diameter	Slot/Gauze	Length	Set Between

Static Water Level
73 ft. from Land surface Date Measured 10/20/1960

PUMPING LEVEL (below land surface)
77 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 N/A Date N/A
System UTM - Nad83, Zone15, Meters X: 479616 Y: 4970032

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 1 Volts
Length of drop Pipe _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

First Bedrock Prairie Du Chien Group
Last Strat Prairie Du Chien Group
Aquifer Multiple
Depth to Bedrock 212 ft.

Renner E.H. & Sons	27015	
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report 206281 Printed 9/10/2008
HE-01205-07

Minnesota Unique Well No.
206282

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 CAKERMAN AND HUNSTEAD
Township Range Dir Section Subsections Elevation 835 ft.
28 24 W 26 CBADDA Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
50 ft.	50 ft.	06/29/1960

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 47 ft.	lbs./ft.	

Open Hole from ft. to ft

Screen YES Make Type

Diameter	Slot/Gauze	Length	Set Between
1.3		3	0 ft. and ft.

Well Address
6638 CHICAGO AV S
RICHFIELD MN

Geological Material	Color	Hardness	From	To
SAND			0	21
FINE SAND	GRAY		21	42
SAND AND GRAVEL			42	50

Static Water Level
22 ft. from Land surface Date Measured 06/29/1960

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 479206 Y 4969902

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
Aamot Well Co. 27052
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 206282 Printed 9/10/2008
HE-01205-07

Minnesota Unique Well No.
206283

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 WEEGMAN
Township Range Dir Section Subsections Elevation 852 ft.
28 24 W 26 CBBBCC Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
50 ft.	50 ft.	08/29/1960

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 47 ft.	lbs./ft.	

Open Hole from ft. to ft

Screen Make Type

Diameter	Slot/Gauze	Length	Set Between

Well Address
6621 PORTLAND
RICHFIELD MN

Geological Material	Color	Hardness	From	To
SAND			0	21
SAND	BROWN		21	42
SAND AND GRAVEL	BROWN		42	50

Static Water Level
38 ft. from Land surface Date Measured 08/29/1960

PUMPING LEVEL (below land surface)
0 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 N/A Date N/A
System UTM - Nad83, Zone15, Meters X: 478864 Y: 4969956

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-brown
Aquifer Quat. Water Table Aquifer
Depth to Bedrock ft.

License Business Name	Lic. Or Reg. No.	Name of Driller
Aamot Well Co.	27052	

County Well Index Online Report 206283 Printed 9/10/2008
HE-01205-07

Minnesota Unique Well No.
206289

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 FOLEY P_G
Township Range Dir Section Subsections Elevation 825 ft.
28 24 W 26 BAACCA Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
50 ft.	50 ft.	09/21/1960

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 47 ft.	lbs./ft.	

Open Hole from ft. to ft

Screen YES Make Type

Diameter	Slot/Gauze	Length	Set Between

Well Address
6232 11TH AV S
RICHFIELD MN

Geological Material	Color	Hardness	From	To
SAND	BROWN		0	21
SAND	GRAY		21	42
SAND AND GRAVEL	BROWN		42	50

Static Water Level
36 ft. from Land surface Date Measured 09/2?/1960

PUMPING LEVEL (below land surface)
0 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 N/A Date N/A
System UTM - Nad83, Zone15, Meters X: 479499 Y: 4970700

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-brown
Aquifer Quat. Water Table Aquifer
Depth to Bedrock ft.

License Business Name	Lic. Or Reg. No.	Name of Driller
Aamot Well Co.	27062	

County Well Index Online Report 206289 Printed 9/10/2008
HE-01205-07

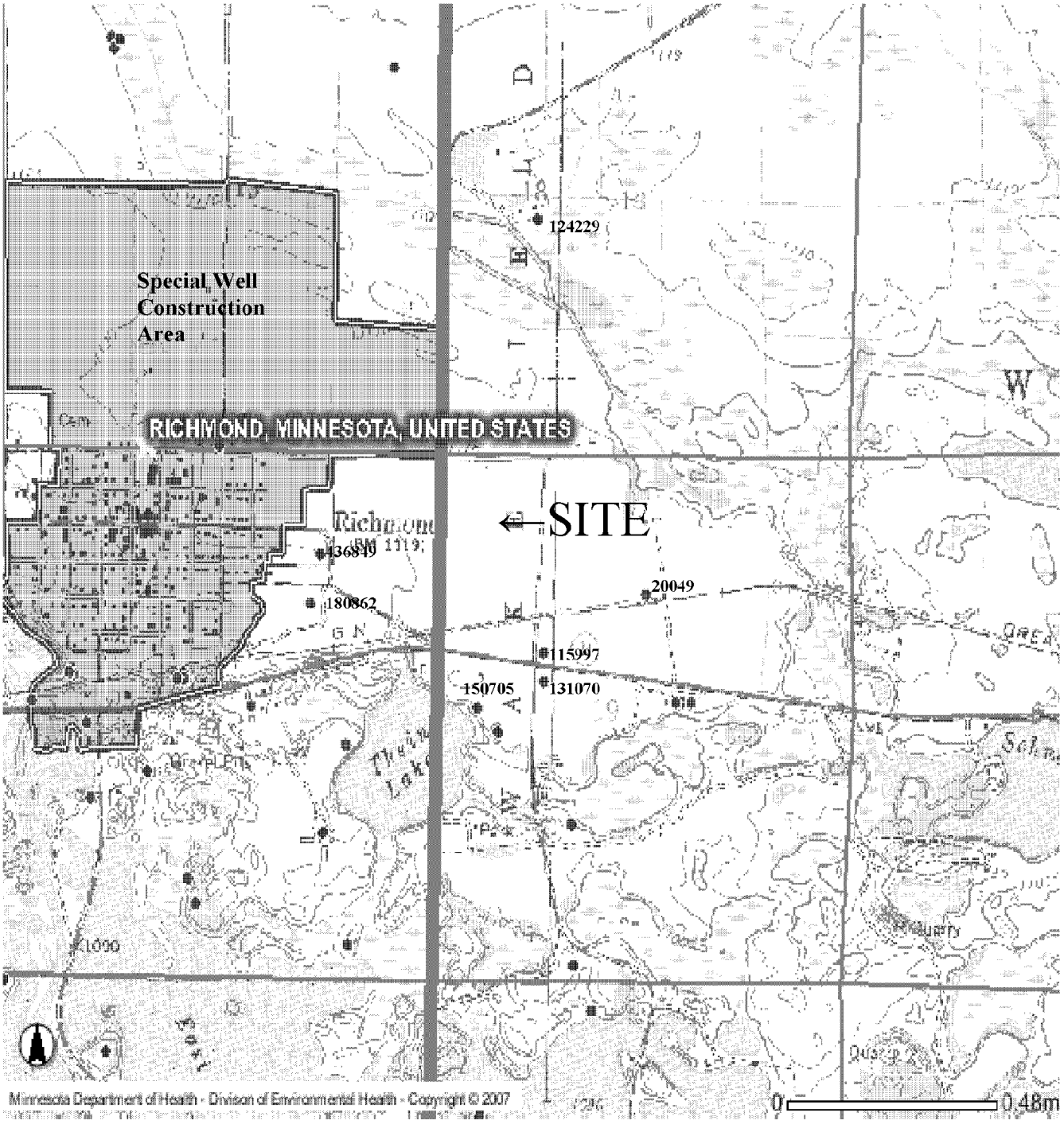
- **Richmond**

SITE SUMMARY

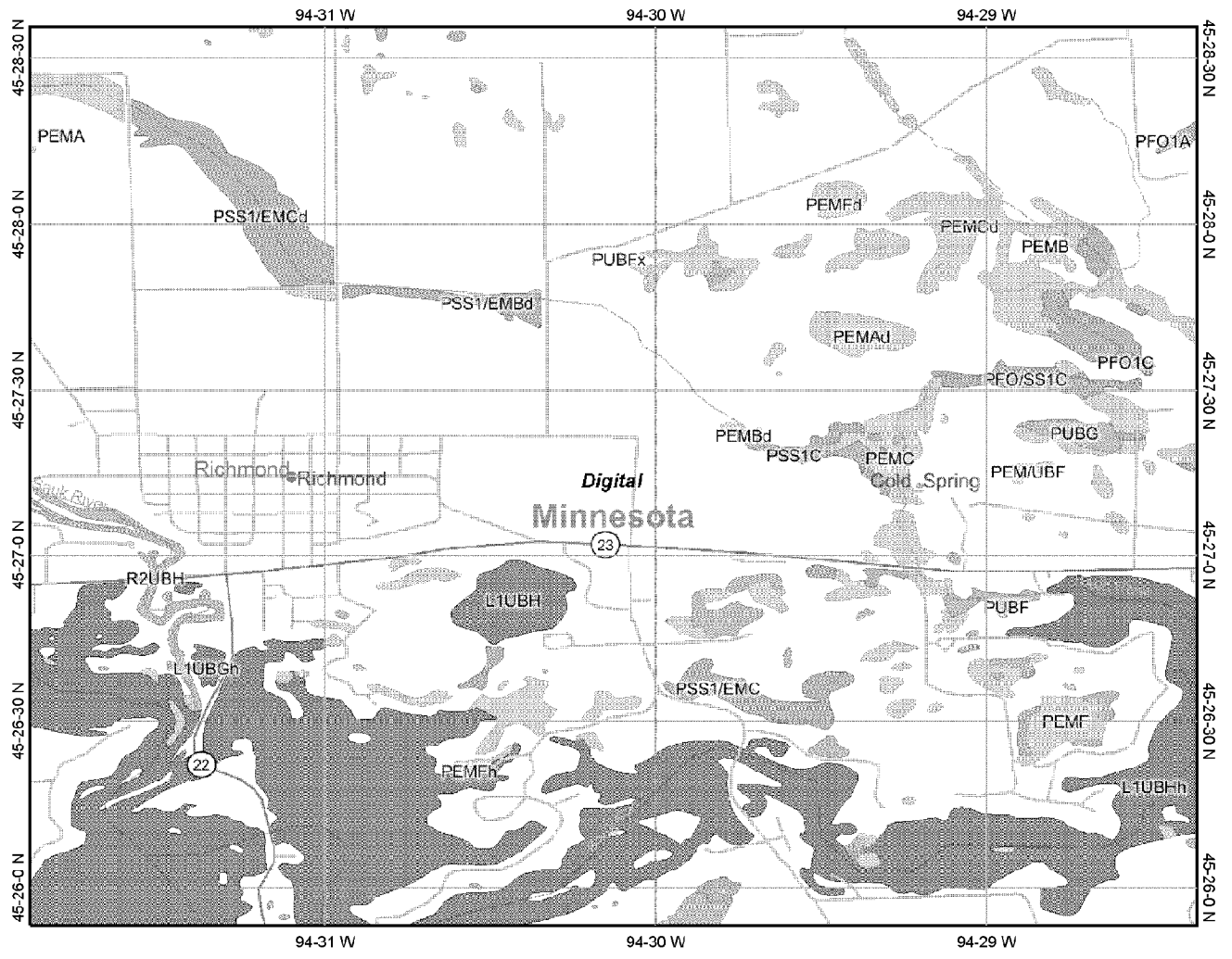
Site Name:	Richmond
Fire Department:	Richmond Fire Department 45 Hall Avenue Richmond, MN 56368
Site Contact:	Chuck Merten, Fire Chief 320-597-2214

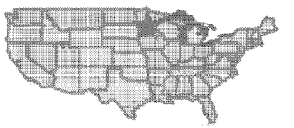
Training Location:	Industrial lot, 3 lots west of the intersection of Main & 191st Avenue, on the north side of Main.
Training Location Coordinates (X,Y):	382469.71, 5034541.88
Type of foam used in training:	AFFF: Ansulite
Foam training frequency:	Annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Ground, then to catchment pond
Annual foam use:	AFFF: 60 to 90 gallons Class A Silv-ex: 60 to 90 gallons Other: Just started using HCT F-500 A-B foam
Nearest surface water:	Approximately 1/4 mile east-northeast
Nearest wetland:	Approximately 1/4 mile east-northeast
Karst Area:	Site is not located in a karst area
Nearest water well:	Approximately 1/4 mile south and southeast
Nearest Wellhead Protection Area:	Less than 1/4 mile northwest
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**15**

RICHMOND CWI Well Map



Richmond 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: 1:35,159

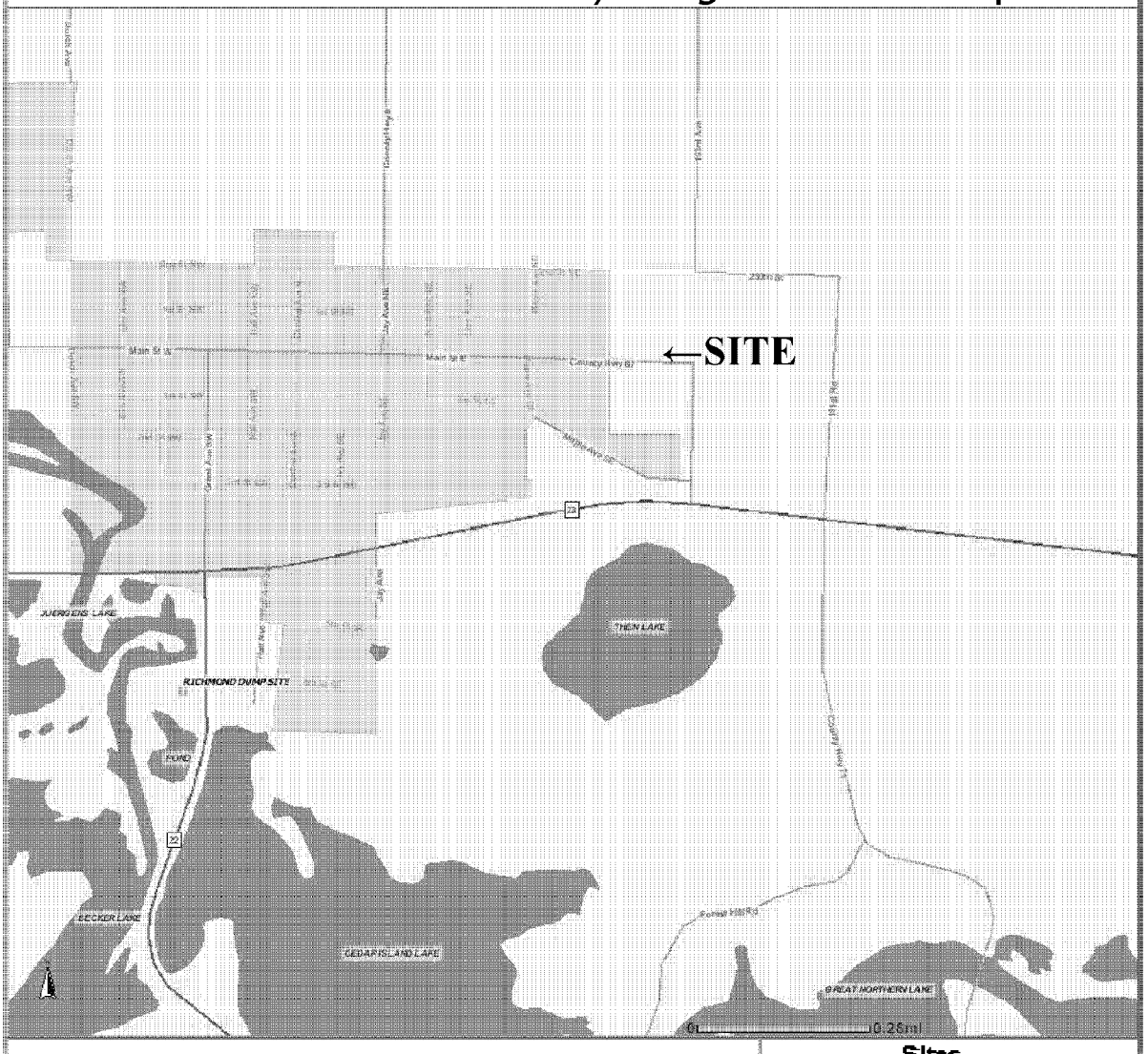
Map center: 45° 27' 14" N, 94° 30' 8" W

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.

2233.0575

STATE_02827387

Richmond *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
- MFRAP
- State Superfund
- CERCLIS
- Federal Superfund
- State Closed Landfills
- Voluntary Investigation & Cleanup
- RCRA TSD Facilities
- RCRA Investigation & Cleanup
- State Assessment

STATE_02827388

2233.0576

Minnesota Unique Well No.
20049

County Stearns
Quad Cold Spring
Quad ID 140B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 05/30/1991
Update Date 12/23/2003
Received Date

Well Name CS-1
Township Range Dir Section Subsections Elevation 1111 ft.
123 30 W 19 ACBBBA Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
112 ft.	112 ft.	06/22/1988

Drilling Method Non-specified Rotary

Drilling Fluid --

Well Hydrofractured? ☑ Yes ☑ No
From Ft. to Ft.

Use Exploration

Casing Type Joint No Information Drive Shoe? ☑ Yes ☑ No Above/Below 0 ft.

Casing Diameter	Weight	Hole Diameter
		6 in. to 60 ft.
		3 in. to 112 ft.

Open Hole from ft. to ft

Screen Make Type

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
SAND OUTWASH	BROWN	SOFT	0	53
SAPROLITH	BLUE	MEDIUM	53	98
GNEISSIC GRANITE		HARD	98	112

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 6-21-88.
M.G.S. NO. 2830.

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: 383030 Y: 5034293

Nearest Known Source of Contamination
750 feet N direction Barnyard 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 Borehole Geophysics Yes
First Bedrock Cretaceous Regolith
Last Strat RICHMOND GRANITE
Aquifer
Depth to Bedrock 53 ft.

Well Contractor Certification
Boyles Bros.drilling | E0053
License Business Name | Lic. Or Reg. No. | Name of Driller

County Well Index Online Report | 20049 | Printed 9/12/2008 HE-01205-07

Minnesota Unique Well No.
115997

County Stearns
Quad Richmond
Quad ID 141A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/17/1988
Update Date 08/02/1993
Received Date

Well Name HART, GARY
Township Range Dir Section Subsections Elevation 1115 ft.
123 30 W 19 BCADDC Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
52 ft.	52 ft.	07/15/1976

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
4 in. to 52 ft.	lbs./ft.	

Well Address

RICHMOND MN 56368

Open Hole from ft. to ft

Screen YES Make Type slotted pipe

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
GRAVEL	YELLOW	MEDIUM	0	37
WATERSAND FINE	YELLOW		37	40
MARL	BLU/GRN	SOFT	40	52

Static Water Level
30 ft from Land surface Date Measured 07/15/1976

PUMPING LEVEL (below land surface)
33 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)

REMARKS
SCREEN-6 IN. HOLE 4 IN. SLOTTED PIPE GRAVEL PACK.

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: 382656 Y: 5034117

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
Jennings Well Co.	73321	JENNINGS, S.

First Bedrock Cretaceous Regolith
Last Strat Cretaceous Regolith
Aquifer
Depth to Bedrock 40 ft.

County Well Index Online Report — 115997 — Printed 9/12/2008 HE-01205-07

Minnesota Unique Well No.
124229

County Stearns
Quad Richmond
Quad ID 141A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 02/13/1989
Update Date 08/02/1993
Received Date

Well Name TORBERG, MELVIN
Township Range Dir Section Subsections Elevation
123 30 W 18 CBAACA Elevation Method
1108 ft.
7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
37 ft.	35 ft.	06/29/1976

Drilling Method Bucket Auger

Drilling Fluid
--

Well Hydrofractured? ☑ Yes ☑ No
From Ft. to Ft.

Use Abandoned Status Sealed

Casing Type Joint Welded Drive Shoe? ☑ Yes ☑ No Above/Below 2 ft.

Casing Diameter	Weight	Hole Diameter
12 in. to 31 ft.	lbs./ft.	

Open Hole from ft. to ft

Screen YES Make JOHNSON Type stainless steel

Diameter	Slot/Gauze	Length	Set Between
12	100	4	31 ft. and 35 ft.

Well Address
RR 1
RICHMOND MN 56368

Geological Material	Color	Hardness	From	To
DRY SAND & CLAY	BROWN		0	6
FAIR FINE SAND	GRAY		6	17
FAIR GRAVEL	GRAY		17	37

Static Water Level
8.8 ft. from Land surface Date Measured 06/29/1976

PUMPING LEVEL (below land surface)
21.8 ft. after hrs. pumping 357 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: 382634 Y: 5035440

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

Ingelside Eng	71278	PRAUGHT, J.W.
License Business Name	Lic. Or Reg. No.	Name of Driller

First Bedrock
Last Strat Gravel (+larger)-gray
Aquifer Quat. Water Table Aquifer
Depth to Bedrock ft

County Well Index Online Report | 124229 | Printed 9/12/2008
HE-01205-07

Minnesota Unique Well No.
131070

County Stearns
Quad Richmond
Quad ID 141A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/17/1988
Update Date 08/02/1993
Received Date

Well Name NEU, LARRY
Township Range Dir Section Subsections Elevation
123 30 W 19 BCDADD Elevation Method
1118 ft.
7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
56 ft.	56 ft.	09/24/1976

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 22 ft.	lbs./ft.	

Open Hole from ft. to ft.

Screen YES Make JET STREAM Type plastic

Diameter	Slot/Gauze	Length	Set Between
5	30	34	22 ft. and 56 ft.

Static Water Level
20 ft. from Land surface Date Measured 09/24/1976

PUMPING LEVEL (below land surface)
50 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)

Well Address
RR 1
RICHMOND MN 56368

Geological Material	Color	Hardness	From	To
NO RECORD			0	56

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 Name on mailbox
Date N/A

System UTM - Nad83, Zone15, Meters
X: 382657 Y: 5034029

Nearest Known Source of Contamination
135 feet S direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☑ No

Pump ☑ Not Installed Date Installed 09/27/1976
Manufacturer's name AERMOTOR Model number SD12X50 HP 0.5 Volts 230
Length of drop Pipe 34 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

Traut Well	73157	CLAUDE, J.
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 | 131070 | Printed 9/12/2008
HE-01205-07

Minnesota Unique Well No.
150705

County Stearns
Quad Richmond
Quad ID 141A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/17/1988
Update Date 08/02/1993
Received Date

Well Name HEMMESCH, LESTER
Township Range Dir Section Subsections Elevation
123 30 W 19 BCDADD Elevation Method
1112 ft.
7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
52 ft.	52 ft.	05/17/1978

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 33 ft.	lbs./ft.	7 in. to 52 ft.

Well Address

RICHMOND MN 56368

Open Hole from ft. to ft

Screen YES Make Type plastic

Diameter	Slot/Gauze	Length	Set Between
4		0	33 ft. and 52 ft.

Geological Material	Color	Hardness	From	To
GRAVEL COARSE	YELLOW		0	35
MARL	RED	HARD	35	47
MARL	GREEN	HARD	47	52

Static Water Level
ft. from Date Measured

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 Information from owner
Date N/A

System UTM - Nad83, Zone15, Meters
X: 382414 Y: 5033950

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

Jennings Well Co.	73321	JENNINGS, S.
License Business Name	Lic. Or Reg. No.	Name of Driller

First Bedrock Cretaceous Regolith
Last Strat Cretaceous Regolith
Aquifer Multiple
Depth to Bedrock 35 ft.

County Well Index Online Report | 150705 | Printed 9/12/2008
HE-01205-07

Minnesota Unique Well No. **180862**

County Stearns
Quad Richmond
Quad ID 141A

MINNESOTA DEPARTMENT OF HEALTH

WELL AND BORING RECORD

Minnesota Statutes Chapter 103I

Entry Date 04/17/1988
Update Date 05/29/2002
Received Date

Well Name RICHMOND BASEBALL ASSC.

Township Range Dir Section Subsections Elevation — 1115 ft.

123 31 W 24 ACAABC Elevation Method — 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
163 ft.	163 ft.	05/29/1981

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 ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 83 ft.	lbs./ft.	8 in. to 163 ft.

Well Address

RICHMOND MN

Open Hole from ft. to ft

Screen YES Make JET STREAM Type plastic

Diameter	Slot/Gauze	Length	Set Between
4	40	80	83 ft. and 163 ft.

Geological Material	Color	Hardness	From	To
SAND	YELLOW	MEDIUM	0	20
SHALE	GRAY	MEDIUM	20	24
MARL & DECOMPOSED GRANITE	GREEN	SFT-HRD	24	150
GRANITE	GREEN	SFT-HRD	150	163

Static Water Level
22 ft. from Land surface Date Measured 05/30/1981

PUMPING LEVEL (below land surface)
150 ft. after hrs. pumping 3 g.p.m.

Well Head Completion
Pitless adapter manufacturer Model
☑ Casing Protection ☑ 12 in. above grade
☑ At-grade (Environmental Wells and Borings ONLY)

REMARKS
´23-31-24 ACAABC
ELEV 1115-+5
´41-A

Grouting Information Well Grouted? ☑ Yes ☑ No

Grout Material: Neat Cement — from 3 to 30 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: 381803 Y: 5034238

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 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 Cretaceous,Undiff.
Last Strat Precambrian Crystalline Roc
Aquifer Multiple
Depth to Bedrock 20 ft

Well Contractor Certification

Jennings Well Co.	73321	JENNINGS, S.
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report — 180862 — Printed 9/12/2008
HE-01205-07

Minnesota Unique Well No.
436849

County Stearns
Quad Richmond
Quad ID 141A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 05/07/1991
Update Date 07/22/1993
Received Date

Well Name RICHMOND APARTMENTS
Township Range Dir Section Subsections Elevation
123 31 W 24 ABDADC Elevation Method
1119 ft.
7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
42 ft.	40 ft.	07/15/1988

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 25 ft.	lbs./ft.	
4 in. to 40 ft.	lbs./ft.	

Open Hole from ft. to ft

Screen YES Make CERTAINTEED Type plastic

Diameter	Slot/Gauze	Length	Set Between
4	23	5	25 ft. and 30 ft.

Well Address
466 1ST ST SE
RICHMOND MN 56368

Geological Material	Color	Hardness	From	To
SAND	YELLOW	SOFT	0	30
MARL	LT. GRY		30	42

Static Water Level
22 ft. from Land surface Date Measured 07/15/1988

PUMPING LEVEL (below land surface)
25 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 22 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: 381840 Y: 5034418

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 Cretaceous Regolith
Last Strat Cretaceous Regolith
Aquifer Quat. Water Table Aquifer
Depth to Bedrock 30 ft

Well Contractor Certification

Jennings Well Co.	73321	NORDMANN, M.
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report | 436849 | Printed 9/12/2008
HE-01205-07

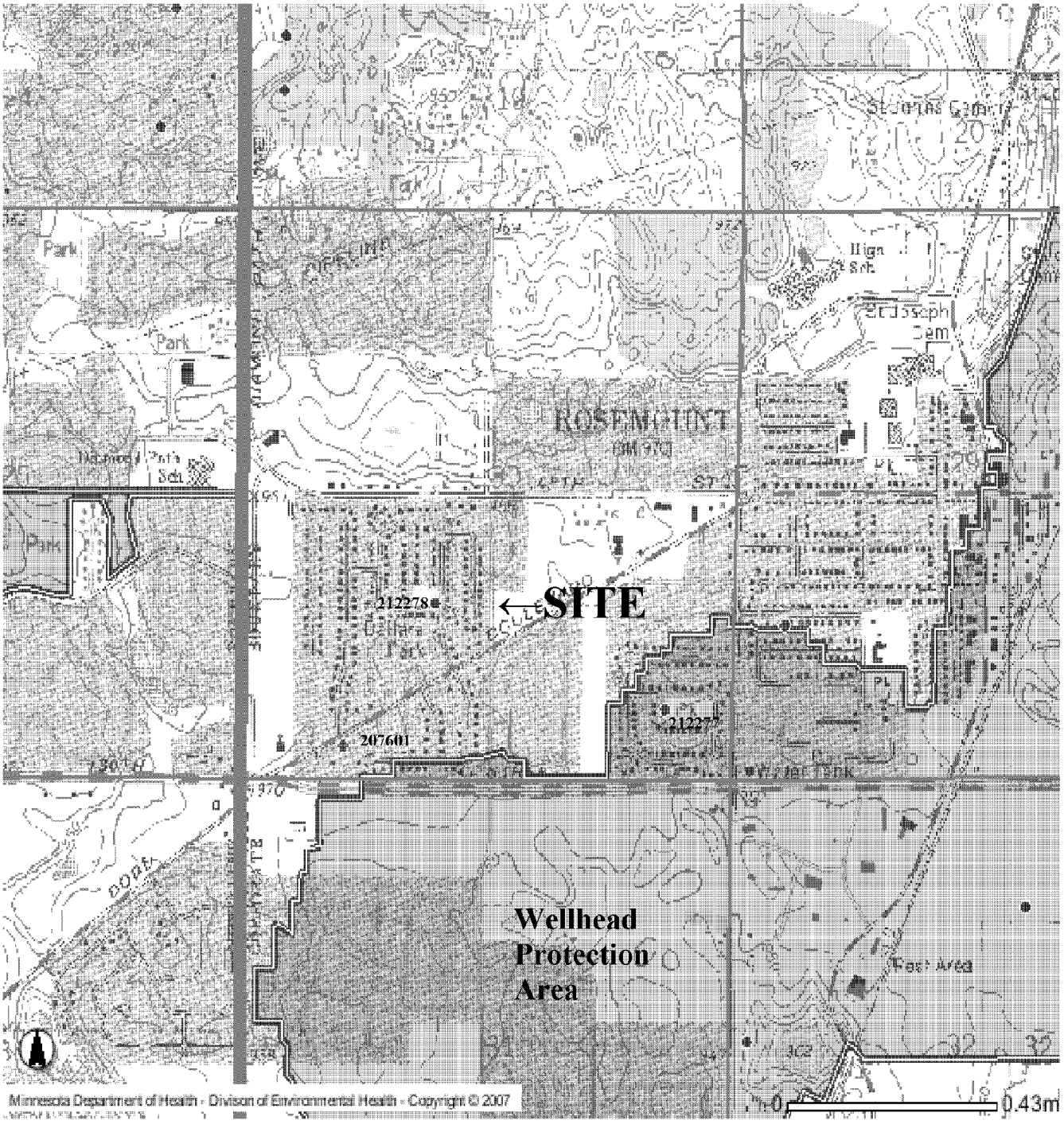
- **Rosemount**

SITE SUMMARY

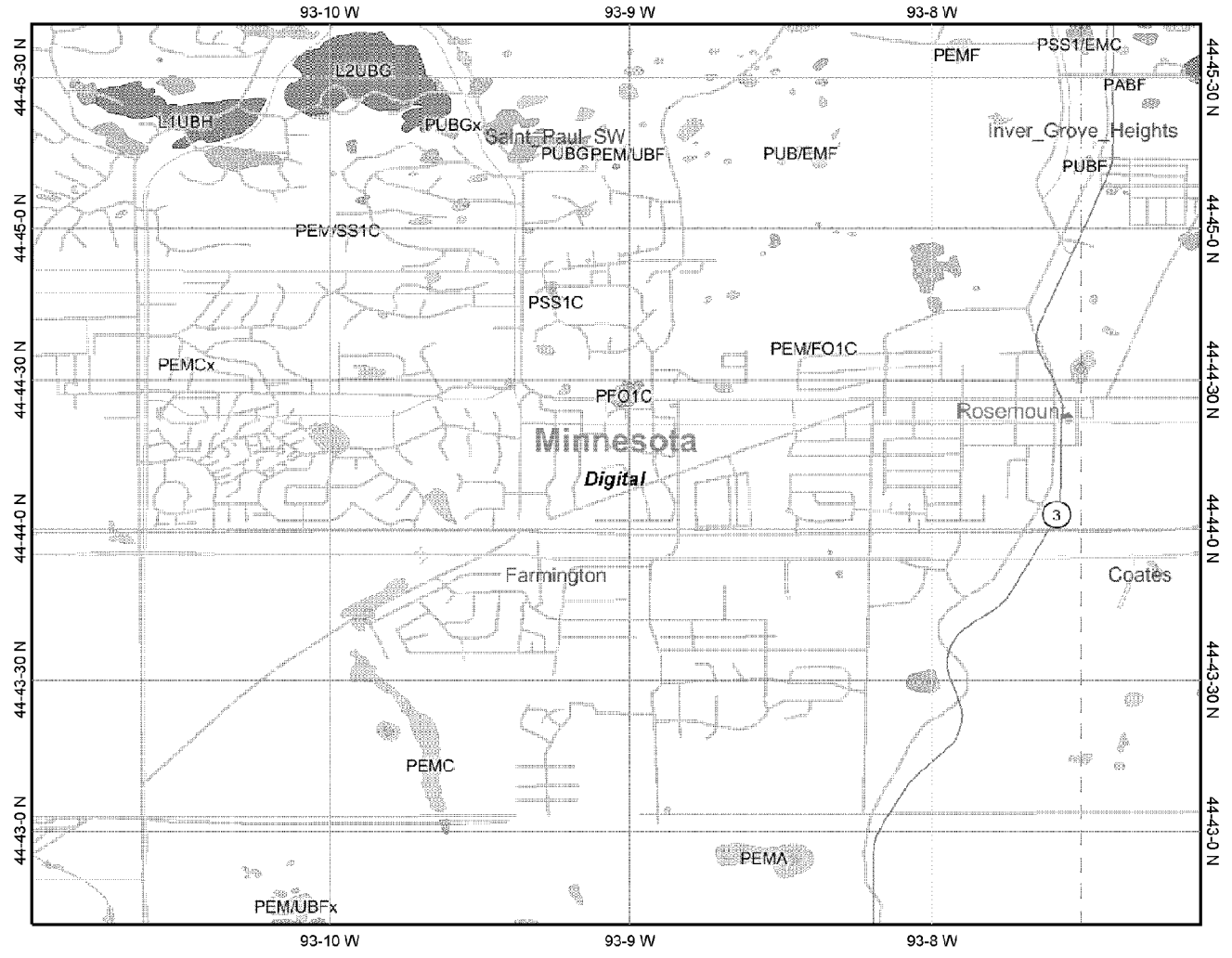
Site Name:	Rosemount
Fire Department:	Rosemount Fire Department 2875 145th Street West Rosemount, MN 55068
Site Contact:	Scott Aker, Fire Chief 651-322-2066

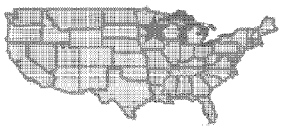
Training Location:	14700 Shannon Parkway, Rosemount
Training Location Coordinates (X,Y):	488446.7, 4953651.29
Type of foam used in training:	AFFF: unsure of brand, no longer used. Received expired foam for training from Flint Hills Refinery in the past, not sure of brand. Likely that some time in the past foam by 3M was used. Training foam: unsure of brand, no longer used
Foam training frequency:	Annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Ground, storm sewer, sanitary sewer
Annual foam use:	AFFF (historic use): not sure Training foam (historic use): not sure Other (HCT F-500 A/B foam): 5 to 15 gallons
Nearest surface water:	Unnamed ponds 1/4 to 1 mile to the west, southwest and southeast
Nearest wetland:	1/4 to 1 mile northwest
Karst Area:	Site is located in a covered karst area.
Nearest water well:	Less than 1/4 mile west
Nearest Wellhead Protection Area:	1/4 to 1/3 mile southeast
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**19**

ROSEMOUNT CWI Well Map



Rosemount 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: 1:38,816

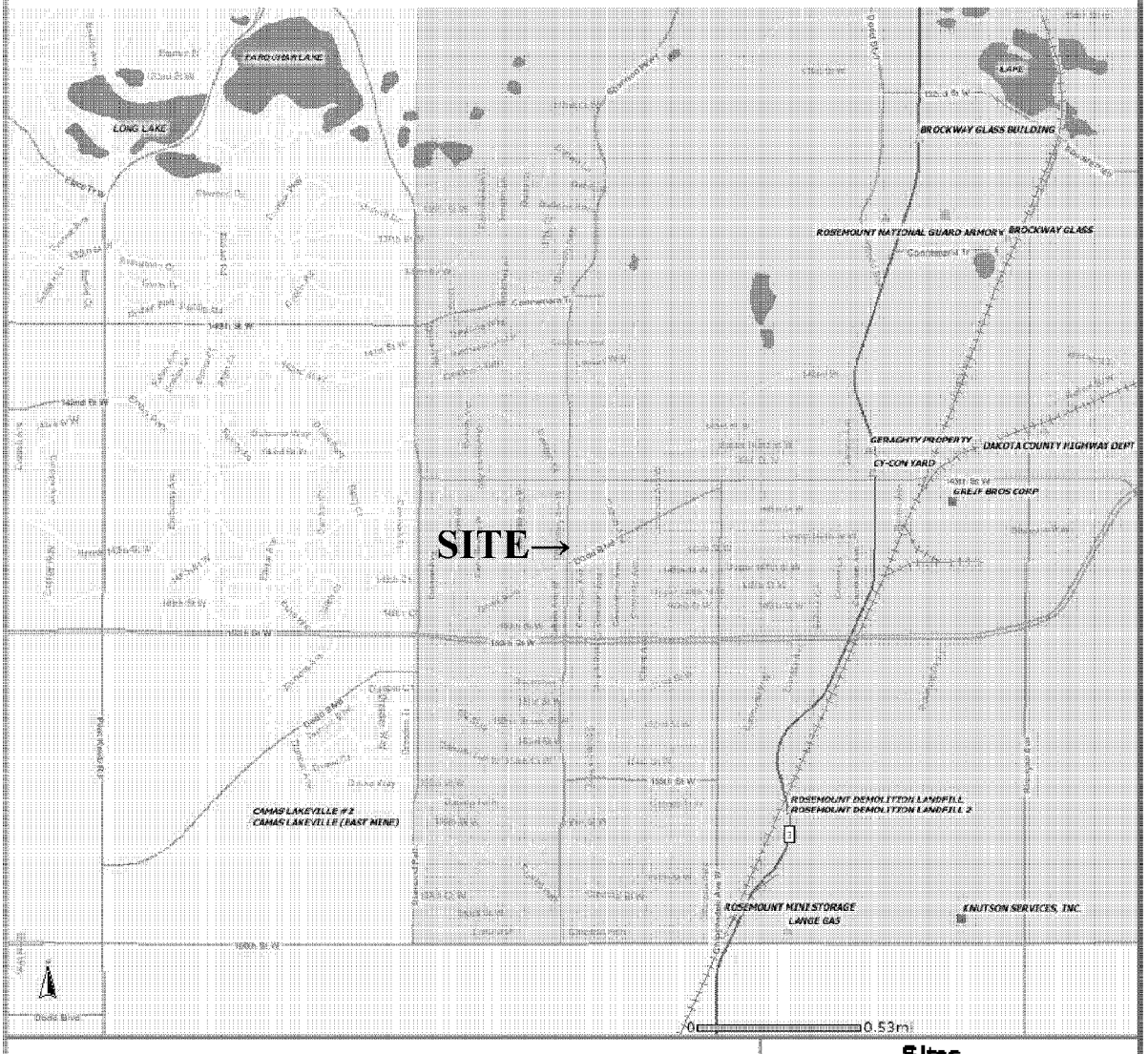
Map center: 44° 44' 11" N, 93° 9' 3" W

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2233.0587

STATE_02827399

Rosemount *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_02827400

2233.0588

Minnesota Unique Well No.
207601

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 03/24/2006
Received Date

Well Name OSTERTAG, BARNEY
Township Range Dir Section Subsections Elevation
115 19 W 30 CCDDBB Elevation Method
965 ft.
7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
214 ft.	214 ft.	10/16/1973

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 191 ft.	lbs./ft.	4 in. to 214 ft.

Open Hole from 191 ft. to 214 ft.

Screen NO Make Type

Diameter	Slot/Gauze	Length	Set Between

Well Address
14888 DODD BL
ROSEMOUNT MN 55068

Geological Material	Color	Hardness	From	To
GRAVEL			0	130
SANDSTONE			130	190
LIMESTONE			190	214

Static Water Level
75 ft from Land surface Date Measured 10/17/1973

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
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: 487938 Y: 4953265

Nearest Known Source of Contamination
__feet __direction __type
Well disinfected upon completion? ☑ Yes ☑ No

Pump ☑ Not Installed Date Installed 10/17/1973
Manufacturer's name MCDONALD Model number __ HP 0.75 Volts
Length of drop Pipe 105 ft. Capacity __g.p.m Type Material

Abandoned Wells Does property have any not in 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
Last Strat Prairie Du Chien Group
Aquifer Prairie Du Chien Group
Depth to Bedrock 130 ft.

License Business Name | Lic. Or Reg. No. | Name of Driller: HELGESON, J.

County Well Index Online Report | 207601 | Printed 9/16/2008 HE-01205-07

Minnesota Unique Well No.
212277

County Dakota
Quad Farmington
Quad ID 88B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 07/10/1989
Update Date 03/27/2006
Received Date

Well Name ROSEMOUNT 5
Township Range Dir Section Subsections Elevation
115 19 W 30 DDBDDC Elevation Method
958 ft.
7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
490 ft.	490 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
10 in. to ft.	lbs./ft.	
8 in. to ft.	lbs./ft.	

Open Hole from 399 ft. to 490 ft.

Screen NO Make Type

Diameter	Slot/Gauze	Length	Set Between

Well Address

ROSEMOUNT MN 55068

Geological Material	Color	Hardness	From	To
DRIFT			0	206
ST. PETER LIMESTONE & SANDSTONE			206	217
SHAKOPEE DOLOMITE			217	295
SANDSTONE			295	314
DOLOMITE			314	384
JORDAN SANDSTONE			384	490

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
FORMERLY ROSEMOUNT TOWNSHIP NO.2 WELL ABANDONED. 50 TO 75 FT. SOUTH NO.4.

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: 488980 Y: 4953367

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 130 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
Minnesota Department of Health — License Business Name
MDH — Lic. Or Reg. No.
Name of Driller

First Bedrock St Peter
Last Strat Jordan
Aquifer Jordan
Depth to Bedrock 206 ft.

County Well Index Online Report | 212277 | Printed 9/16/2008 HE-01205-07

Minnesota Unique Well No.
212278

County Dakota
Quad Farmington
Quad ID 88B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 12/27/1989
Update Date 03/27/2006
Received Date

Well Name ROSEMOUNT 6
Township Range Dir Section Subsections Elevation 962 ft.
115 19 W 30 CADCBA Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
482 ft.	482 ft.	

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
24 in. to 182 ft.	lbs./ft.	
16 in. to 398 ft.	lbs./ft.	

Open Hole from 398 ft. to 482 ft.

Screen NO Make Type

Diameter	Slot/Gauze	Length	Set Between

Well Address

ROSEMOUNT MN 55068

Geological Material	Color	Hardness	From	To
DRIFT SAND & GRAVEL			0	179
SHAKOPEE DOLOMITE			179	383
JORDAN SANDSTONE			383	477
SHALE			477	482

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
FORMERLY ROSEMOUNT TOWNSHIP NO.3.
WELL SEALED 11-18-1997 BY 71701.
ORIGINAL USE MU - MUNICIPAL.

Grouting Information Well Grouted? ☑ Yes ☑ No

Located Minnesota Geological Survey
Method Digitization (Screen) - Map (1:24,000)
Unique Number Verification Address verification
Date 03/27/2006
System UTM - Nad83, Zone15, Meters
X: 488237 Y 4953670

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 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

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 Jordan
Depth to Bedrock 179 ft.

County Well Index Online Report

212278

Printed 9/16/2008
HE-01205-07

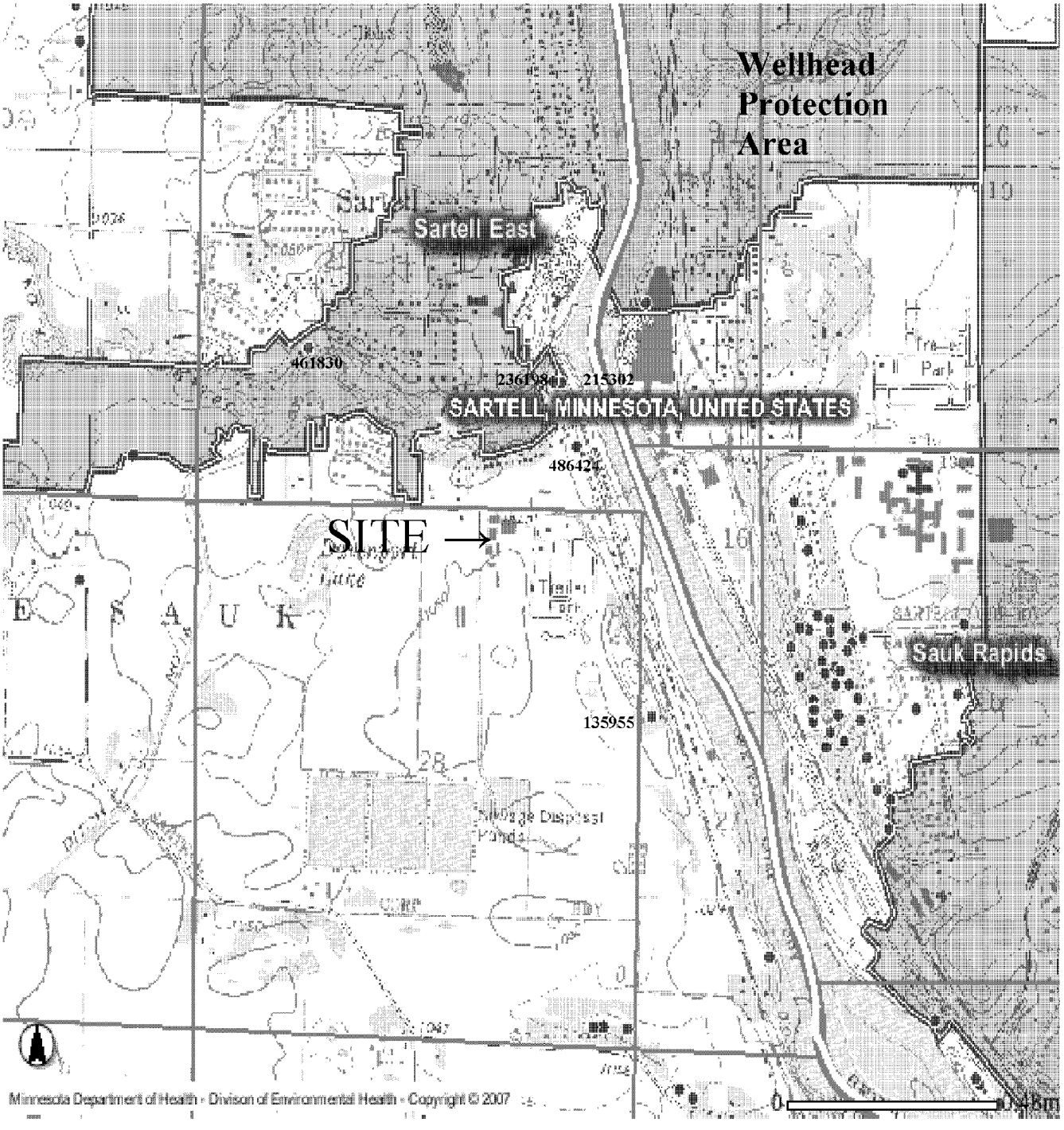
- **Sartell LeSauk**

SITE SUMMARY

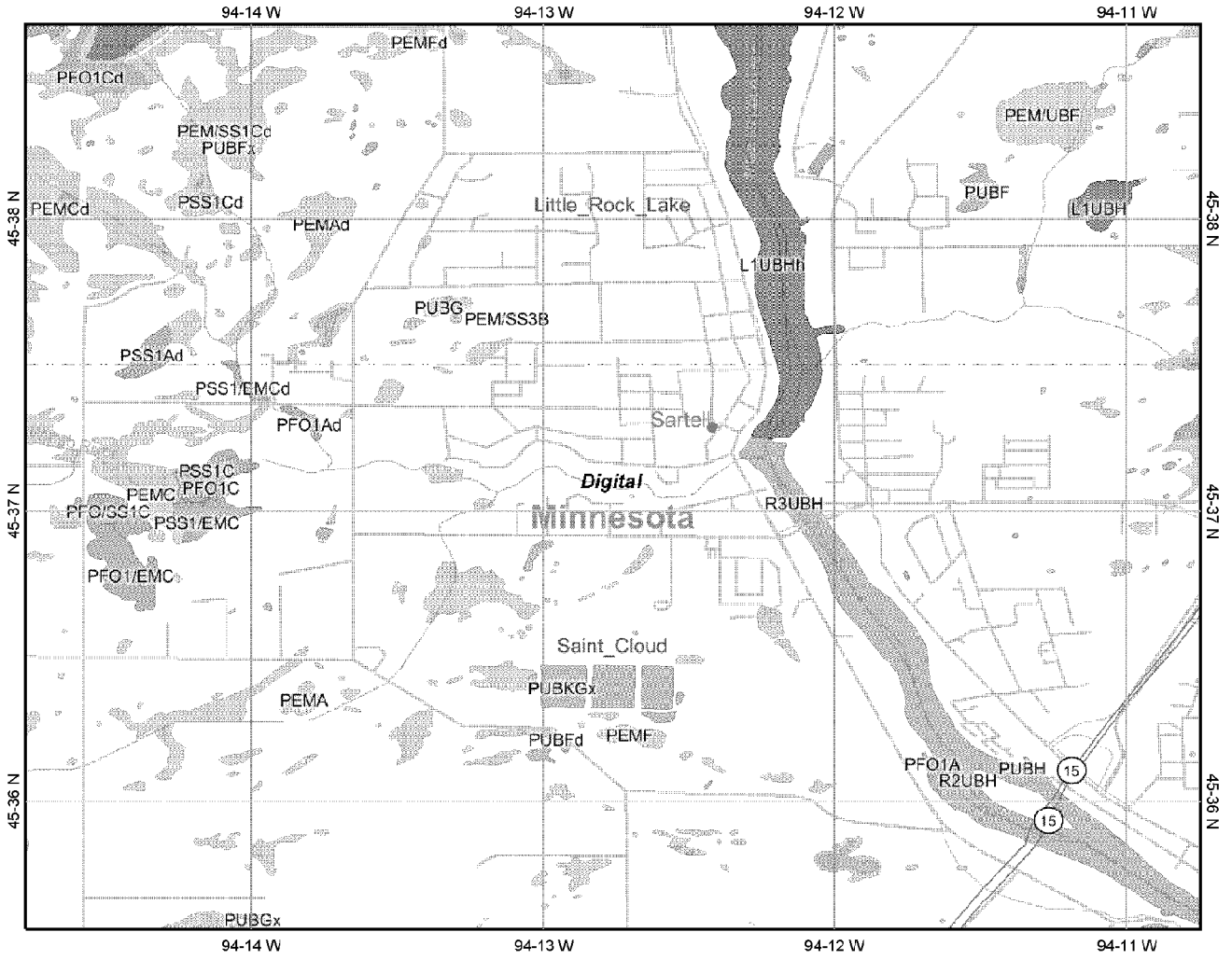
Site Name:	Sartell-LeSauk
Fire Department:	Sartell-LeSauk Fire Department 220 4th Ave. S. Sartell, MN 56377
Site Contact:	Ken Heim, Fire Chief 320-260-6017 320-656-1407 fax

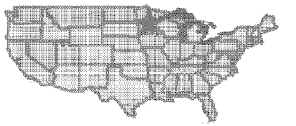
Training Location:	Likely at fire hall, 220 4th Ave. S.
Training Location Coordinates (X,Y):	405757.66, 5051923.66
Type of foam used in training:	AR-AFFF: Angus Other: Dawn dish soap
Foam training frequency:	Annually to bi-annually
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Ground
Annual foam use:	AR-AFFF: "not much" HiEx: 40 gallons
Nearest surface water:	Mississippi River approximately 1/4 mile east
Nearest wetland:	Less than 1/4 mile to the west and to the southeast
Karst Area:	Site is not located in a karst area.
Nearest water well:	Less than 1/4 mile northeast
Nearest Wellhead Protection Area:	Less than 1/4 mile north
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**15**

SARTELL-LESAUK CWI Well Map



Sartell-LeSauk 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: 1:40,191

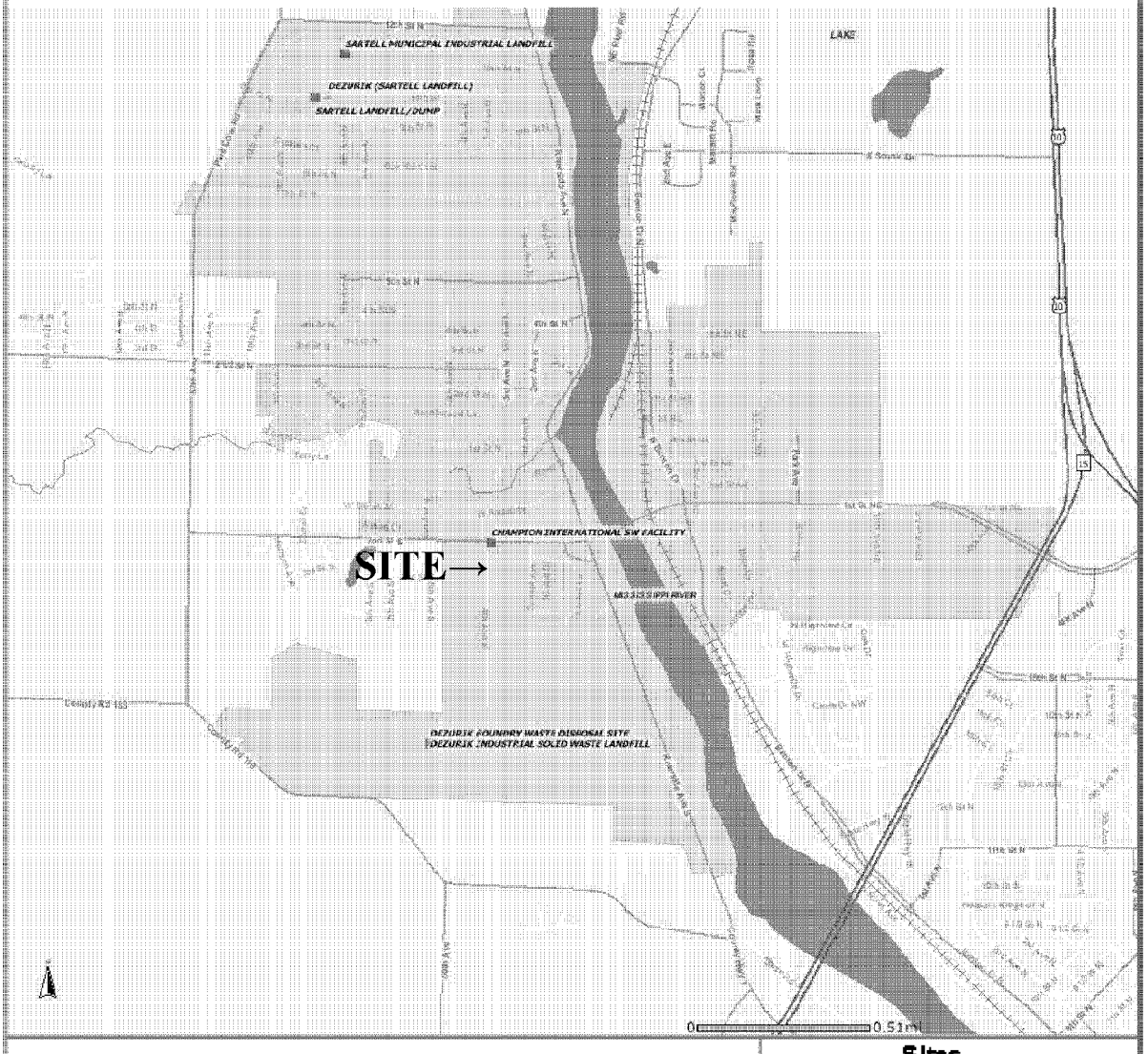
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2233.0595

STATE_02827407

Sartell-LeSauk *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.
135955

County Stearns
Quad St Cloud
Quad ID 156C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/17/1988
Update Date 07/30/1993
Received Date

Well Name NEUMANN, DR. MYREL
Township Range Dir Section Subsections Elevation
125 28 W 27 BCBCCD Elevation Method
1054 ft.
7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
76 ft.	76 ft.	05/25/1977

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 1 ft.

Casing Diameter	Weight	Hole Diameter
6 in. to 76 ft.	lbs./ft.	6 in. to 76 ft.

Well Address
RIVER RD N
ST CLOUD MN

Open Hole from 62 ft. to 76 ft.

Screen NO Make Type

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
SAND	YELLOW	SOFT	0	8
HARDPAN	YELLOW	HARD	8	62
GRAVEL + WATER			62	76

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: 406359 Y: 5051384

Nearest Known Source of Contamination
_feet _direction _type
Well disinfected upon completion? ☑ Yes ☑ No

Pump ☑ Not Installed Date Installed 00/00/1977
Manufacturer's name GOULD Model number 25EL15412 HP 0.5 Volts
Length of drop Pipe 13 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

License Business Name	Lic. Or Reg. No.	Name of Driller
Donabauer Well Co.	73061	DONABAUER, G.

First Bedrock
Last Strat Gravel (+larger)
Aquifer Quaternary Undif.
Depth to Bedrock ft.

County Well Index Online Report | 135955 | Printed 9/19/2008 HE-01205-07

Minnesota Unique Well No.
215302

County Stearns
Quad St Cloud
Quad ID 156C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/17/1988
Update Date 02/25/2008
Received Date

Well Name SARTELL 1
Township Range Dir Section Subsections Elevation 1017 ft.
125 28 W 21 DDBABB Elevation Method 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
66 ft.	64 ft.	00/00/1958

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 ft.

Casing Diameter	Weight	Hole Diameter
12 in. to 49 ft.	lbs./ft.	

Well Address

SARTELL MN 56377

Open Hole from ft. to ft

Screen Make Type

Diameter	Slot/Gauze	Length	Set Between

Geological Material	Color	Hardness	From	To
FINE SAND			0	5
CLAY, ROCKS, AND WATER	GRAY		5	22
CLAY	BROWN	HARD	22	35
DIRTY GRAVEL & FINE SAND			35	39
SAND AND GRAVEL			39	64
MARL			64	66

Static Water Level
22 ft from Land surface Date Measured 1958

PUMPING LEVEL (below land surface)
32 ft. after hrs. pumping 415 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.602176.
WELL DRILLED BY MEAD WELL CO. FROM GRAND RAPIDS.
WELL IS LOCATED IN THE ENTRANCE TO THE CITY PARK, IN THE PUMPHOUSE.
WELL SEALED 10-17-2003 BY 73646
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: 406030 Y: 5052399

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 — License Business Name
USGS — Lic. Or Reg. No.
Name of Driller

First Bedrock Cretaceous Regolith
Last Strat Cretaceous Regolith
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock 64 ft.

County Well Index Online Report | 215302 | Printed 9/19/2008 HE-01205-07

Minnesota Unique Well No.
236198

County Stearns
Quad St Cloud
Quad ID 156C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 09/08/1992
Update Date 02/25/2008
Received Date

Well Name SARTELL 2
Township Range Dir Section Subsections Elevation
125 28 W 21 DDBBAA Elevation Method
1016 ft.
7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
64 ft.	64 ft.	00/00/1959

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
12 in. to 39 ft.	lbs./ft.	

Well Address

SARTELL MN 56377

Open Hole from ft. to ft

Screen YES Make Type

Diameter	Slot/Gauze	Length	Set Between
0		25	39 ft. and 64 ft.

Geological Material	Color	Hardness	From	To
FINE SAND			0	5
CLAY, ROCKS, AND WATER	GRAY		5	22
CLAY	BROWN	HARD	22	35
DIRTY GRAVEL & FINE SAND			35	39
SAND AND GRAVEL			39	64
MARL			64	64

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
USED WELL LOG FROM WELL NO.1 WHICH IS 25 FT. TO THE EAST.
WELL SEALED 12-23-1999 BY /1536
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: 406000 Y: 5052402

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 400 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

First Bedrock Cretaceous Regolith
Last Strat Cretaceous Regolith
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock 64 ft.

Minnesota Geological Survey	MGS	
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report | 236198 | Printed 9/19/2008 HE-01205-07

Minnesota Unique Well No.
461830

County Stearns
Quad St Cloud
Quad ID 156C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 07/20/1992
Update Date 07/30/1993
Received Date

Well Name GALLIPO, WILLIAM
Township Range Dir Section Subsections Elevation
125 28 W 21 CACCBC Elevation Method 1040 ft. 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
60 ft.	60 ft.	05/10/1990

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 56 ft.	lbs./ft.	

Well Address
808 1ST ST N
SARTELL MN 56377

Open Hole from ft. to ft.

Screen YES Make JOHNSON Type stainless steel

Diameter	Slot/Gauze	Length	Set Between
4	20	4	56 ft. and 60 ft.

Geological Material	Color	Hardness	From	To
CLAY	BROWN	HARD	0	27
SAND	BROWN	SOFT	27	32
CLAY	GRAY	HARD	32	53
SAND	BROWN	SOFT	53	60

Static Water Level
27 ft. from Land surface Date Measured 05/10/1990

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 Digitized - scale 1:24,000 or larger (Digitizing Table)

Unique Number Verification Information from owner
Date N/A

System UTM - Nad83, Zone15, Meters
X: 405108 Y: 5052505

Nearest Known Source of Contamination
50 feet E direction Septic tank/drain field type
Well disinfected upon completion? ☑ Yes ☑ No

Pump ☑ Not Installed Date Installed 05/11/1990
Manufacturer's name GRUNDFOS Model number 10S05-9 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

License Business Name	Lic. Or Reg. No.	Name of Driller
G & M Drilling	73542	MAJERUS, S.

First Bedrock
Last Strat Sand-brown
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft.

County Well Index Online Report 461830 Printed 9/19/2008
HE-01205-07

Minnesota Unique Well No.
486424

County Stearns
Quad St Cloud
Quad ID 156C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 12/15/1991
Update Date 07/30/1993
Received Date

Well Name BOECKMAN, RALPH
Township Range Dir Section Subsections Elevation
125 28 W 21 DDCCCC Elevation Method
1032 ft.
7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
76 ft.	75 ft.	05/03/1991

Drilling Method Non-specified Rotary

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 2 ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 57 ft.	lbs./ft.	

Open Hole from ft. to ft

Screen YES Make JOHNSON Type plastic

Diameter	Slot/Gauze	Length	Set Between
4	12	4	71 ft. and 75 ft.

Static Water Level
ft. from Date Measured

PUMPING LEVEL (below land surface)
70 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)

Well Address
5 RIVERSIDE S
SARTELL MN

Geological Material	Color	Hardness	From	To
CLAY	BROWN		0	19
CLAY	GRAY		19	33
CLAY	BROWN		33	36
SAND SILTY	BROWN		36	39
CLAY	BROWN		39	57
SAND + GRAVEL	BROWN		57	76
CLAY	BROWN		76	76

NO REMARKS

Grouting Information Well Grouted? ☑ Yes ☑ No

Grout Material: Neat Cement	from 7 to 37 ft.	0
Grout Material: Bentonite	from 37 to 60 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: 406086 Y: 5052206

Nearest Known Source of Contamination
__feet __direction __type
Well disinfected upon completion? ☑ Yes ☑ No

Pump ☑ Not Installed Date Installed 07/10/1991
Manufacturer's name GRUNDFOS Model number __ HP 0.33 Volts 230
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

First Bedrock
Last Strat Clay-brown
Aquifer Quat. Buried Artes. Aquifer
Depth to Bedrock ft

Well Contractor Certification

Traut M.j. Well Co.	71536	BRUCE/ROBBIE
License Business Name	Lic. Or Reg. No.	Name of Driller

County Well Index Online Report | 486424 | Printed 9/19/2008
HE-01205-07

- **Wolverton**

SITE SUMMARY

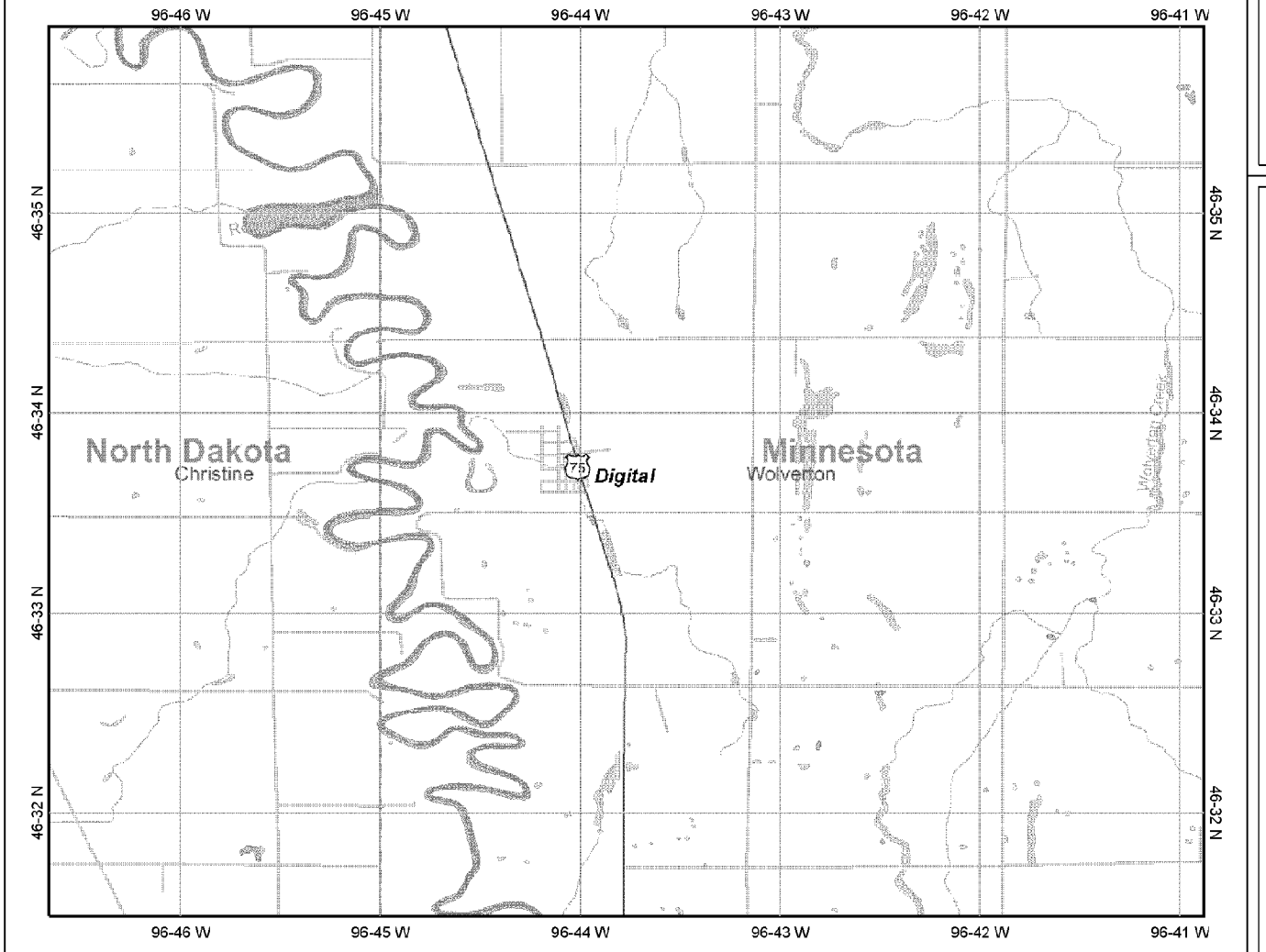
Site Name:	Wolverton
Fire Department:	Wolverton Fire Department PO Box 7 Wolverton, MN 56594
Site Contact:	Mike Tracy, Fire Chief 218-995-2525

Training Location:	Gravel road in front of fire hall at 301 Highway 75, Wolverton.
Training Location Coordinates (X,Y):	213825.98, 5163440.61
Type of foam used in training:	Class B AFFF: Ansulite 3% Class A: Silv-ex
Foam training frequency:	Semi-annual
Foam use per training event:	Less than 5 gallons
Spent foam destination:	Ground
Annual foam use:	Class B AFFF: Less than 1 gallon Class A: Less than 1 gallon
Nearest surface water:	Intermittent stream less than 1/4 southwest, which drains to the Red River located 1/4 to 1/3 mile west
Nearest wetland:	1/4 to 1/3 mile to the north and south
Karst Area:	Site is not located in a karst area.
Nearest water well:	1/2 to 1 mile northwest
Nearest Wellhead Protection Area:	More than 1 mile
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**7**

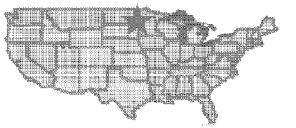
WOLVERTON CWI Well Map



Wolverton Wetland Map



Map center: 46° 33' 43" N, 96° 43' 46" 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

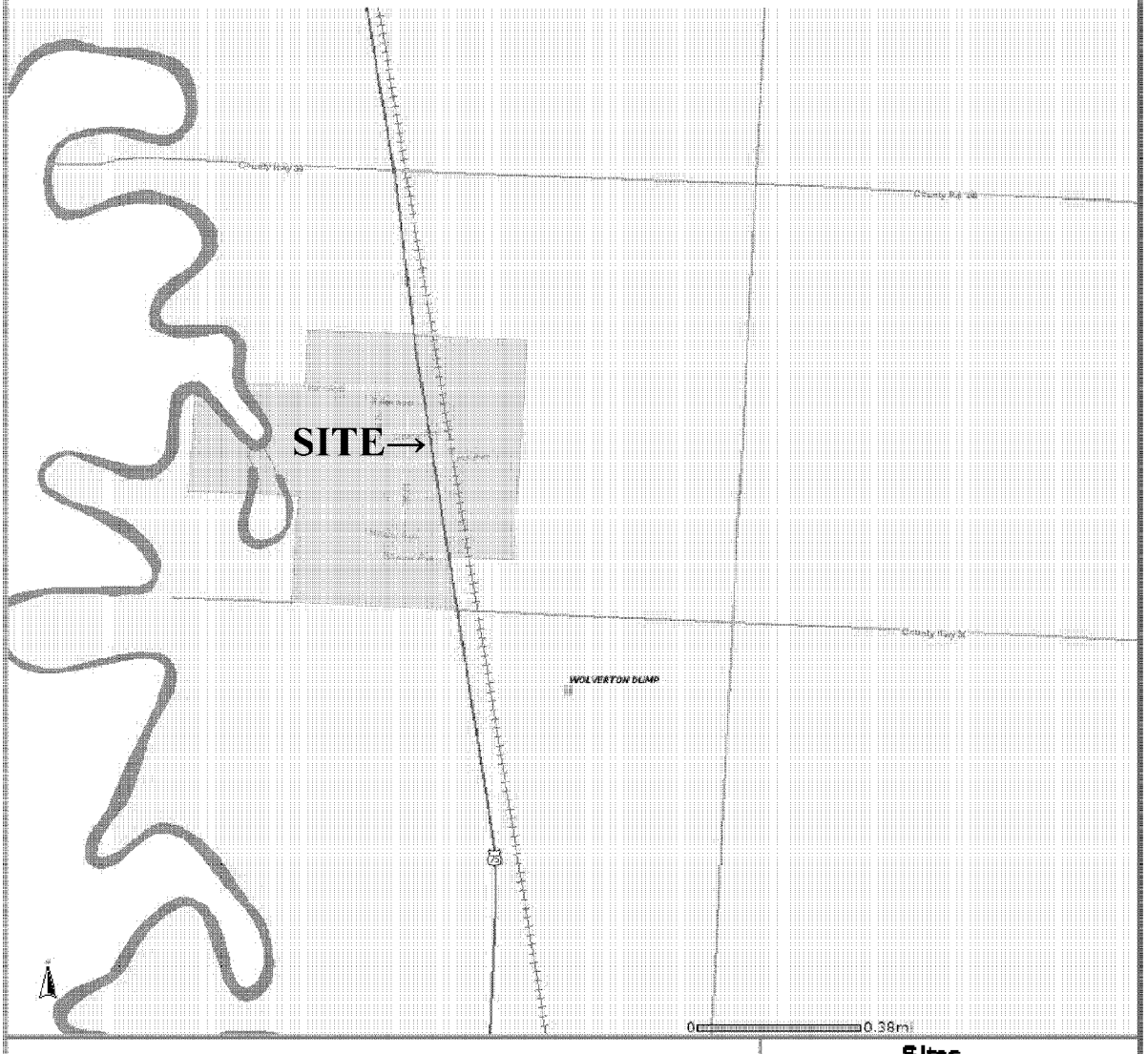
Scale: 1:57,715

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2233.0605

STATE_02827417

Wolverton *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.
175735

County Wilkin
Quad Wolverton
Quad ID 241C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 103I

Entry Date 04/17/1988
Update Date 02/04/2004
Received Date

Well Name PETERSON, VICTOR
Township Range Dir Section Subsections Elevation
136 48 W 27 BCABAB Elevation Method 930 ft. 7.5 minute topographic map (+/- 5 feet)

Well Depth	Depth Completed	Date Well Completed
60 ft.	60 ft.	06/17/1983

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 ft.

Casing Diameter	Weight	Hole Diameter
4 in. to 54 ft.	lbs./ft.	6.25 in. to ft.

Well Address
RR 1
WOLVERTON MN

Open Hole from ft. to ft

Screen YES Make JOHNSON Type stainless steel

Diameter	Slot/Gauze	Length	Set Between
3	12	6	54 ft. and 60 ft.

Geological Material	Color	Hardness	From	To
TOP SOIL	BLACK	SOFT	0	1
CLAY	YELLOW	SOFT	1	18
CLAY	BLUE	MEDIUM	18	54
SAND LENS	WHITE	MEDIUM	54	60

Static Water Level
12 ft. from Land surface Date Measured 06/17/1983

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)

REMARKS
PLASTIC CASING

Grouting Information Well Grouted? ☑ Yes ☑ No

Grout Material: Bentonite from to ft. 1 yrds.

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: 215293 Y: 5163989

Nearest Known Source of Contamination
__feet __direction __type
Well disinfected upon completion? ☑ Yes ☑ No

Pump ☑ Not Installed Date Installed 06/19/1983
Manufacturer's name GOULDS Model number 7EH05412 HP 0.5 Volts 230
Length of drop Pipe 40 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-white
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 | 175735 | Printed 10/23/2008
HE-01205-07

Appendix E

School Training Site Profile for Site Ranked Post-June 30th Report

- Northland College, East Grand Forks

SITE SUMMARY

Site Name: Northland College - East Grand Forks
2022 Central Avenue NE
East Grand Forks, MN 56721

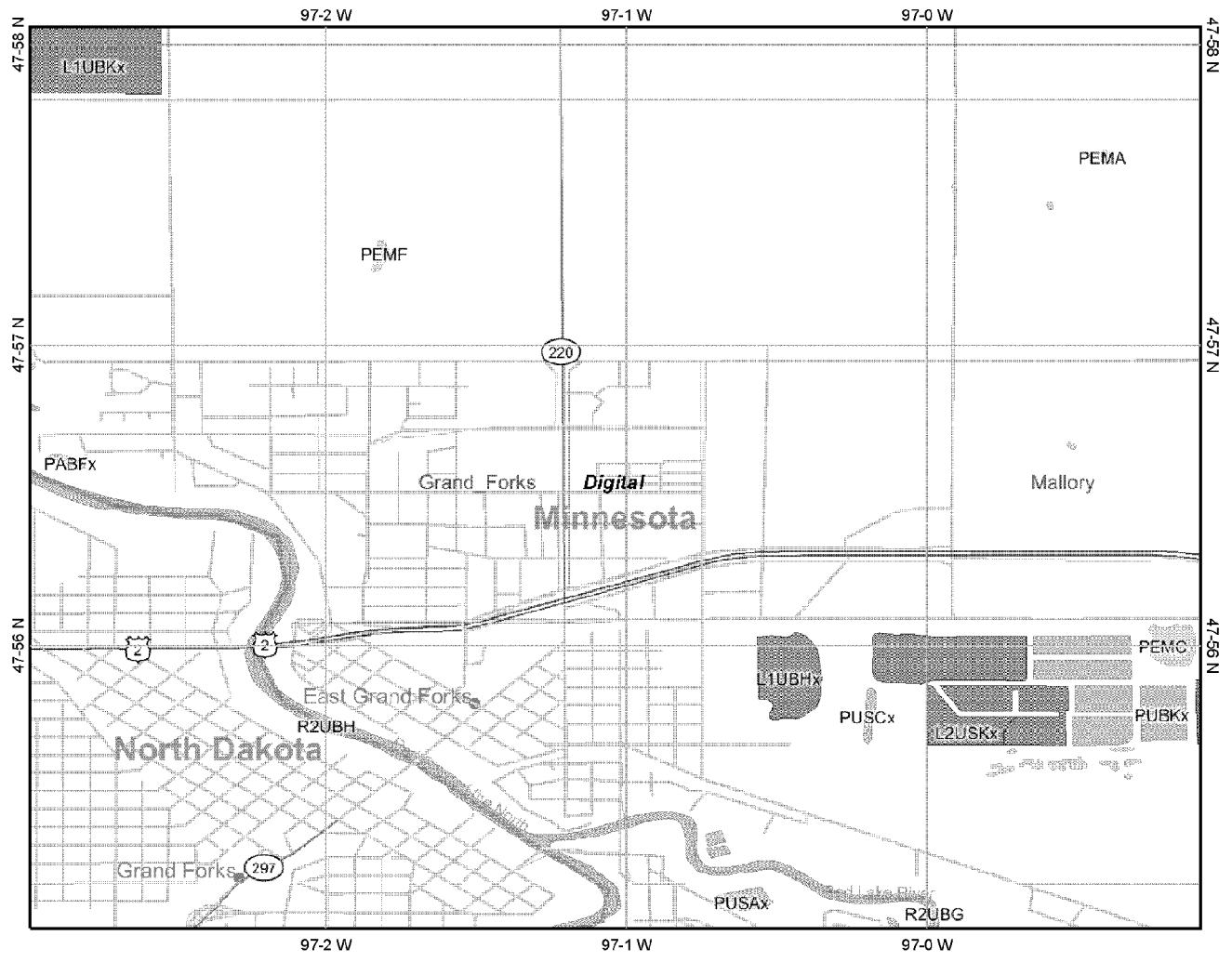
Site Contact: Dave Hoefer
218-793-2590

Training Location:	Three locations on campus: a grassy area north of the firefighting building, a grassy area at the northwest corner of campus, and a parking lot on the south side of the firefighting building.
Training Location Coordinates (X,Y):	200170.86, 5318102.81 199928.06, 5318394.85 200152.19, 5318065.46
Type of foam used in training:	Class B AFFF: 3% Chemguard Class B Protein: not sure brand, historic use Class A: Chemguard
Foam training frequency:	Once per semester, spring and fall
Foam use per training event:	20 to 25 gallons
Spent foam destination:	To the ground in the grassy areas, to the storm sewer in the parking lot training site.
Annual foam use:	Class B AFFF: 40 gallons Class B Protein: unknown Class A: 10 gallons
Nearest surface water:	Red River, 3/4 1 mile southwest
Nearest wetland:	1/2 to 3/4 mile northwest
Karst Area:	Site is not located in a karst area.
Nearest water well:	More than 1 mile
Nearest Wellhead Protection Area:	More than 1 mile
Nearest Source Water Assessment Area:	More than 1 mile
SITE RANKING:	**8**

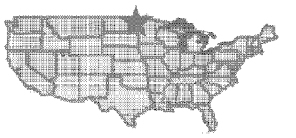
NORTHLAND COLLEGE, EAST GRAND FORKS CWI Well Map



Northland Coll E Grand Forks Wetland Map



Map center: 47° 56' 34" N, 97° 1' 2" 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: 1:38,926

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2233.0611

STATE_02827423

Northland College East Grand Forks *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_02827424

2233.0612