

Informational Meeting Former Woodbury Disposal Site Remedial Investigation (RI) & Feasibility Study (FS)

3M_MN00566907

January 10, 2008

Woodbury RI / FS Meeting
3M

**Exhibit
2743**

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

2743.0001

Agenda

Welcome & Introductions – Bill Nelson (3M)

Overview – Jean Sweeney (3M)

- **The Chemistry**
- **3M's Phase Out**
- **Historic Use of the Woodbury Site & environmental improvements**
- **PFC Investigation**

**Remedial Investigation & Feasibility Study -
Katie Winogrodzki (3M)**

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Jean Sweeney

**3M Vice President
Environmental, Health and
Safety Operations**

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The Chemistry

- **Perfluorochemicals:**
 - **PFOS**
 - **PFOA**
 - **PFBA**
- **3M no longer manufactures PFOS, PFOA or PFBA**

Unique Properties of the Chemistry

- **PFC are used to make products that are resistant to water, oil and extreme temperatures.
Some applications:**
 - **Non-stick cookware**
 - **Stain repellants**
 - **Pipe coatings**
 - **Protective coatings for electrical wiring**
- **PFCs of interest today do have some water solubility.**
- **This allows the molecules to move along with the groundwater without sticking to solid surfaces.**

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3M PFC Research

- **30 years of medical monitoring of production employees**
- **1500 Studies of laboratory**

3M research continues and is peer-reviewed and relied upon by regulators and scientists around the world

wide spread presence – at low levels - in the environment and in people

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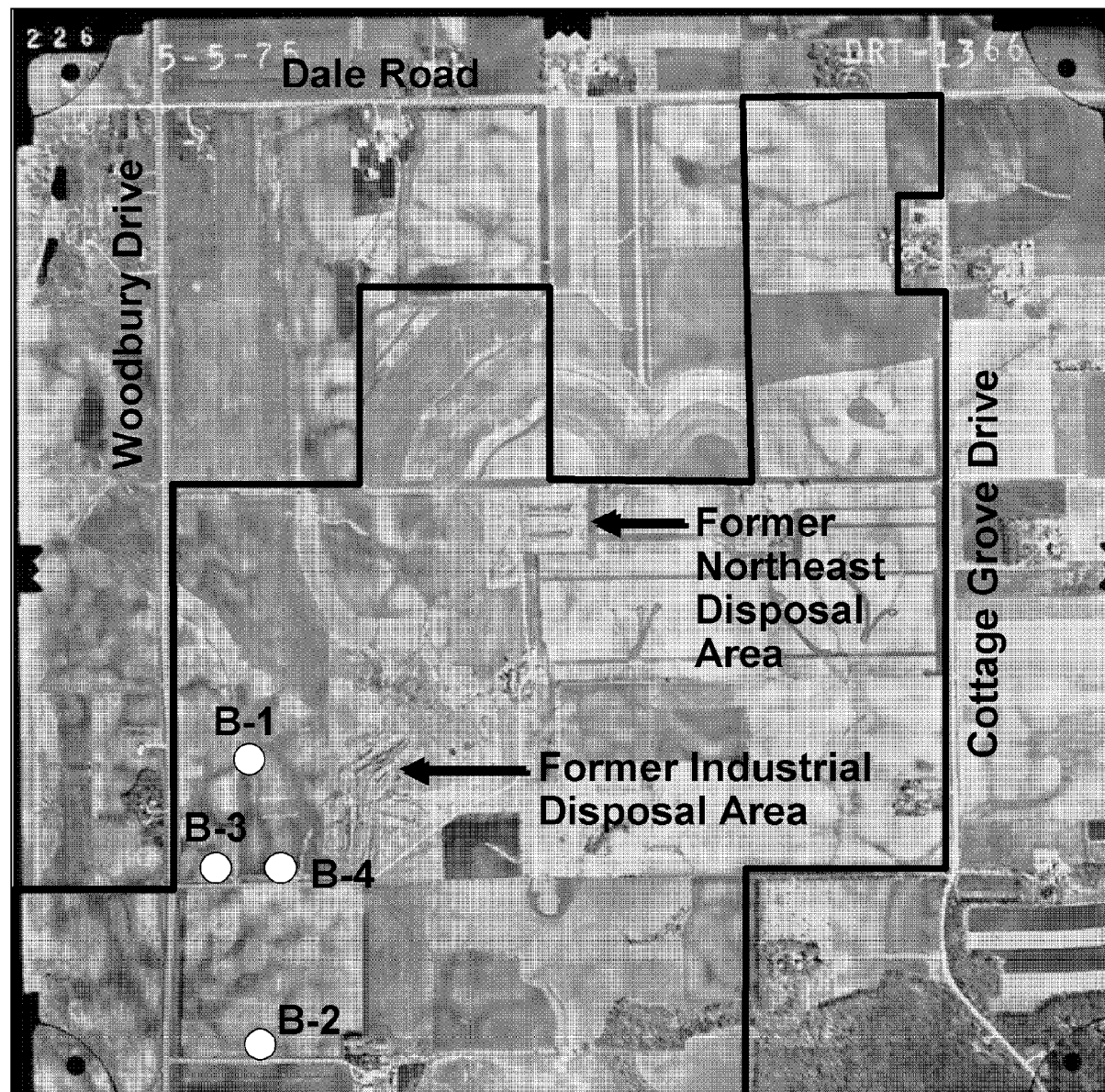
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Woodbury Site Vicinity

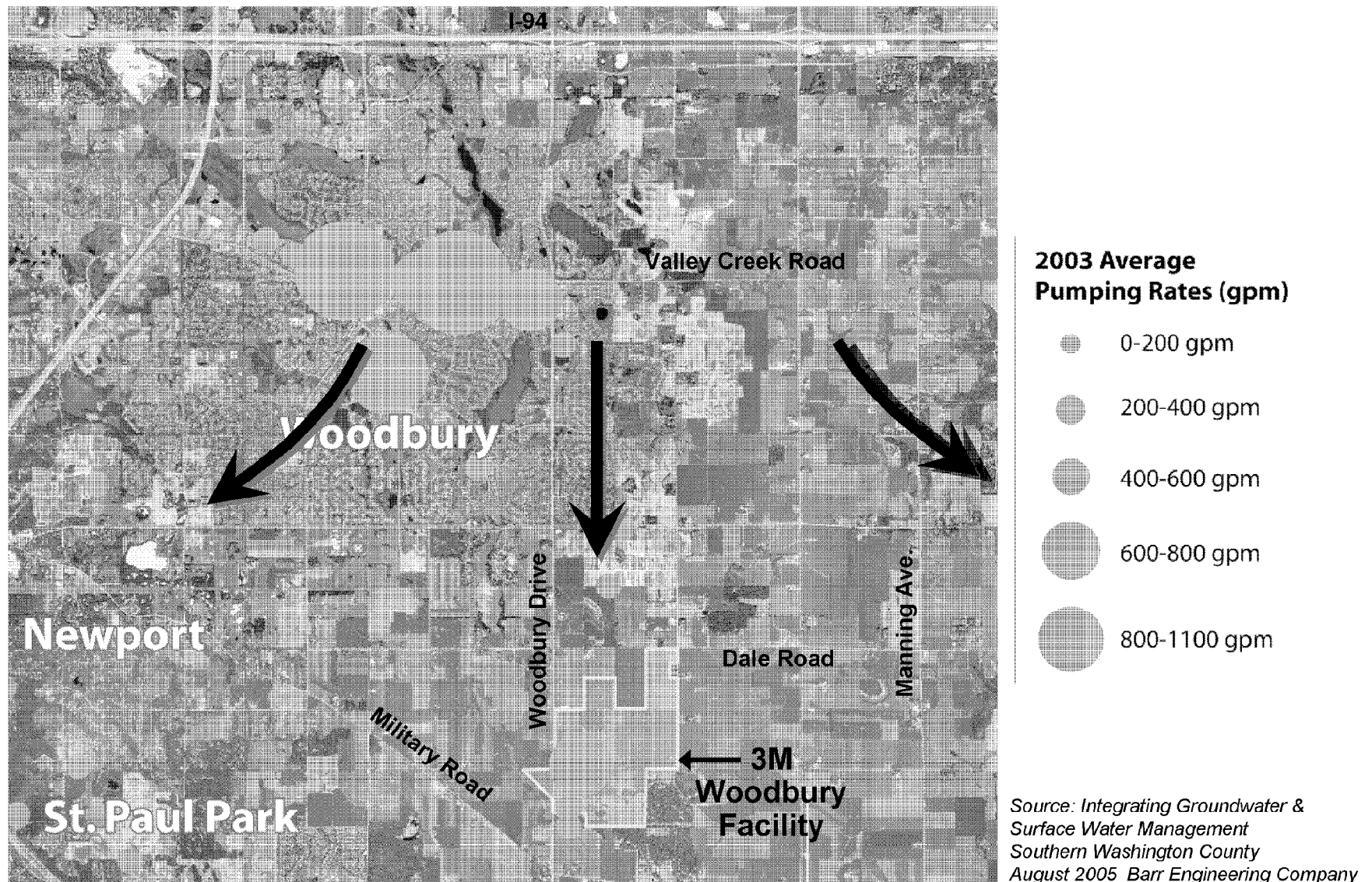


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1975 Aerial Map



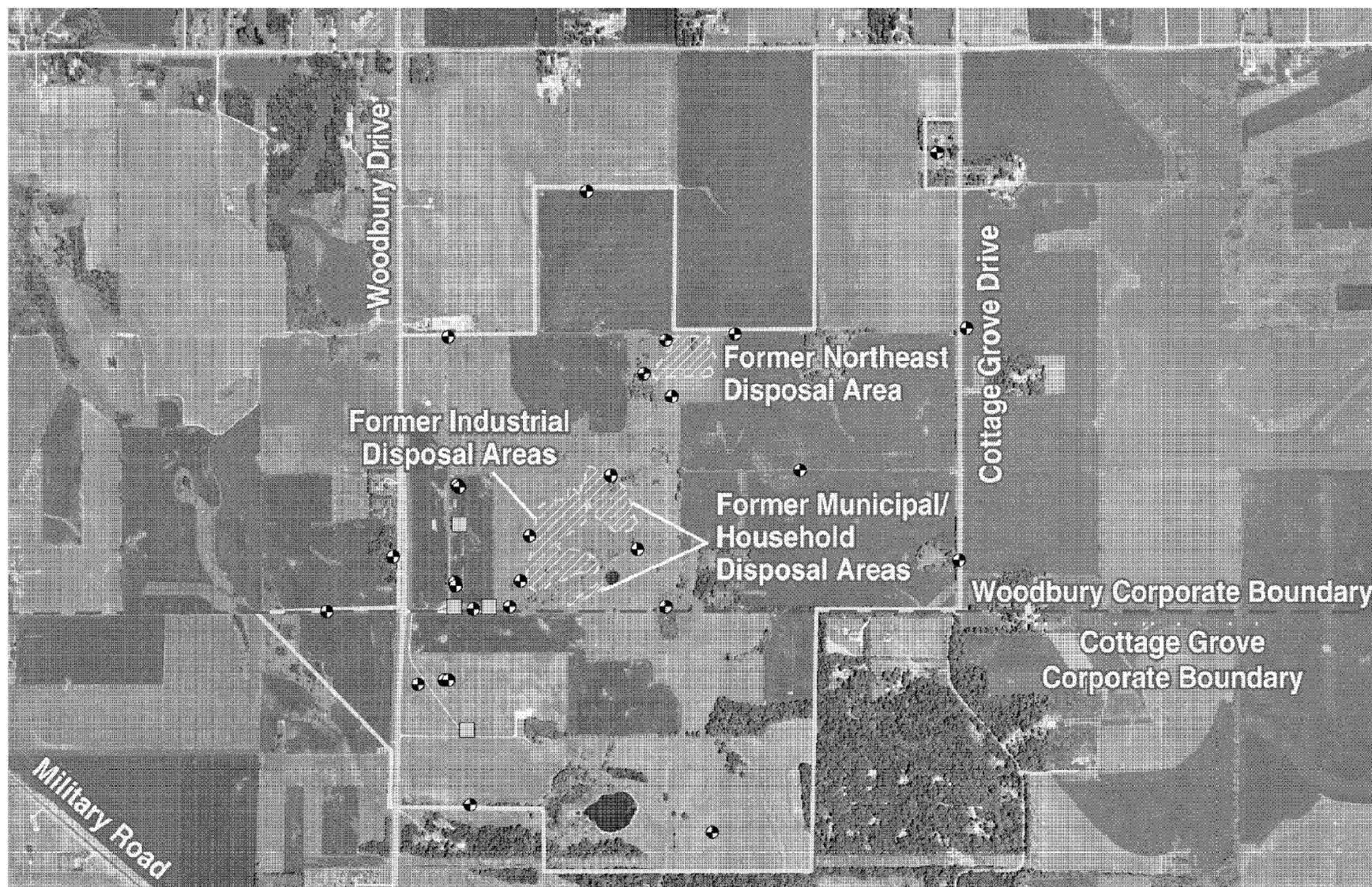
Average Annual Appropriated Groundwater Pumping in Southern Washington County for 2003



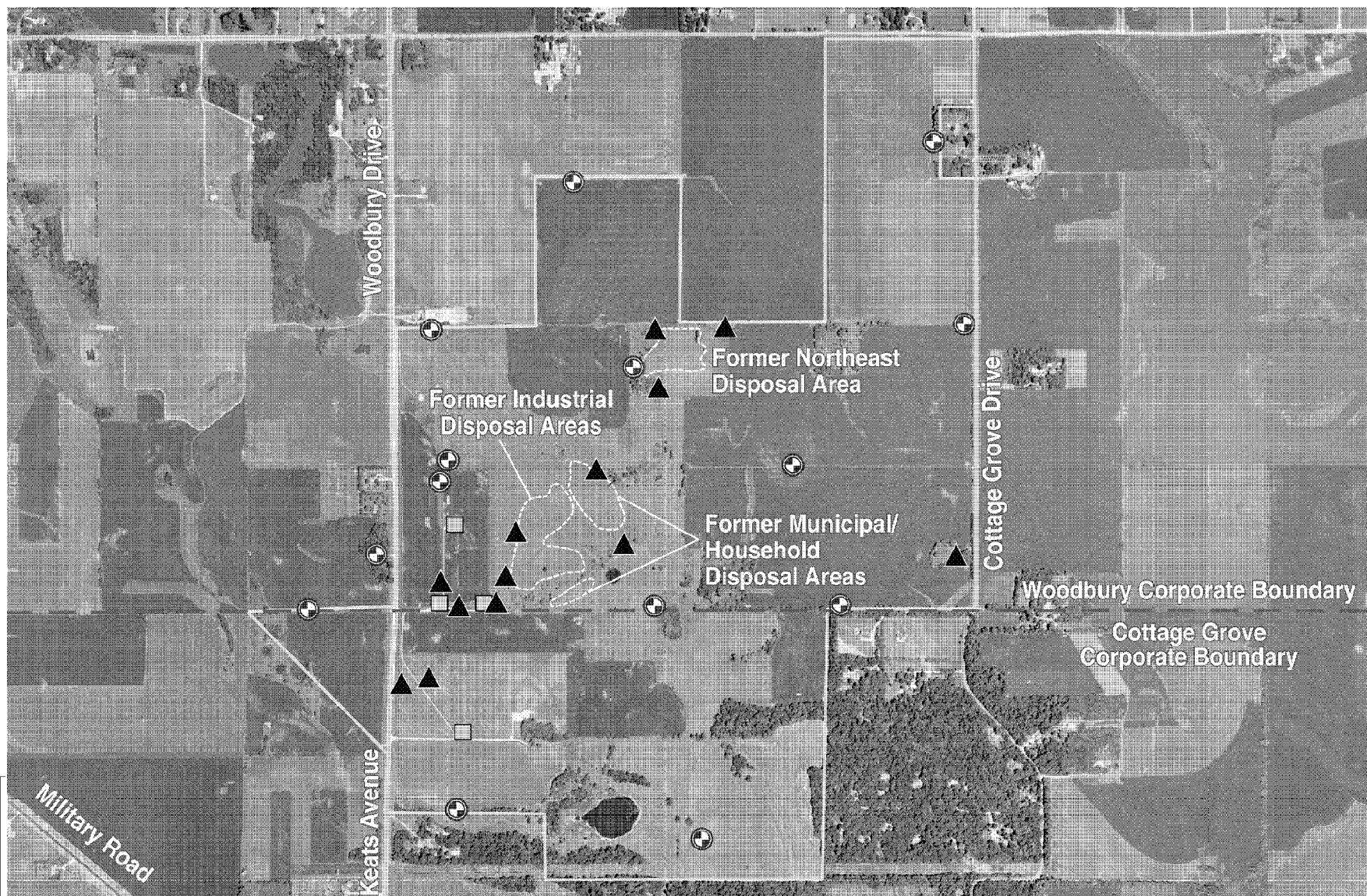
Katie Winogrodzki Woodbury Project Manager

**3M Environmental
Operations
651-778-5393**

Disposal Area Locations

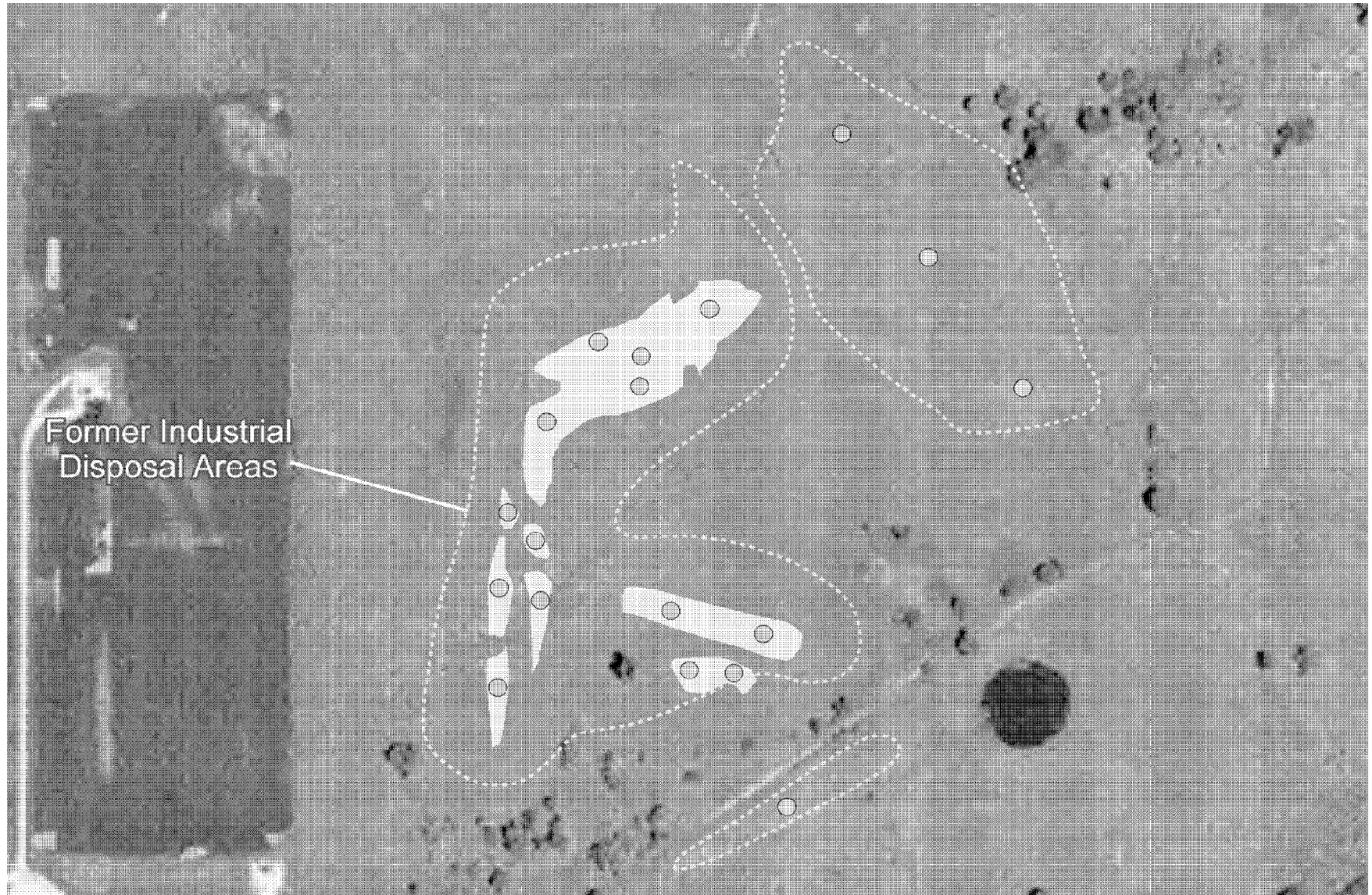


Sampling Location Map - Groundwater



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Sampling Location Map – Soil



Summary of PFC Investigation

- **Groundwater**

- **PFCs detected in groundwater**
- **The highest PFC concentrations were found downgradient of the former northeast disposal area.**

- **PFCs in Soil**

- **Former Northeast Disposal Area – Trenches**
- **Former Industrial Disposal Area – Generally below 10 feet.**
- **Former Municipal / Household Disposal Area – Trace levels.**

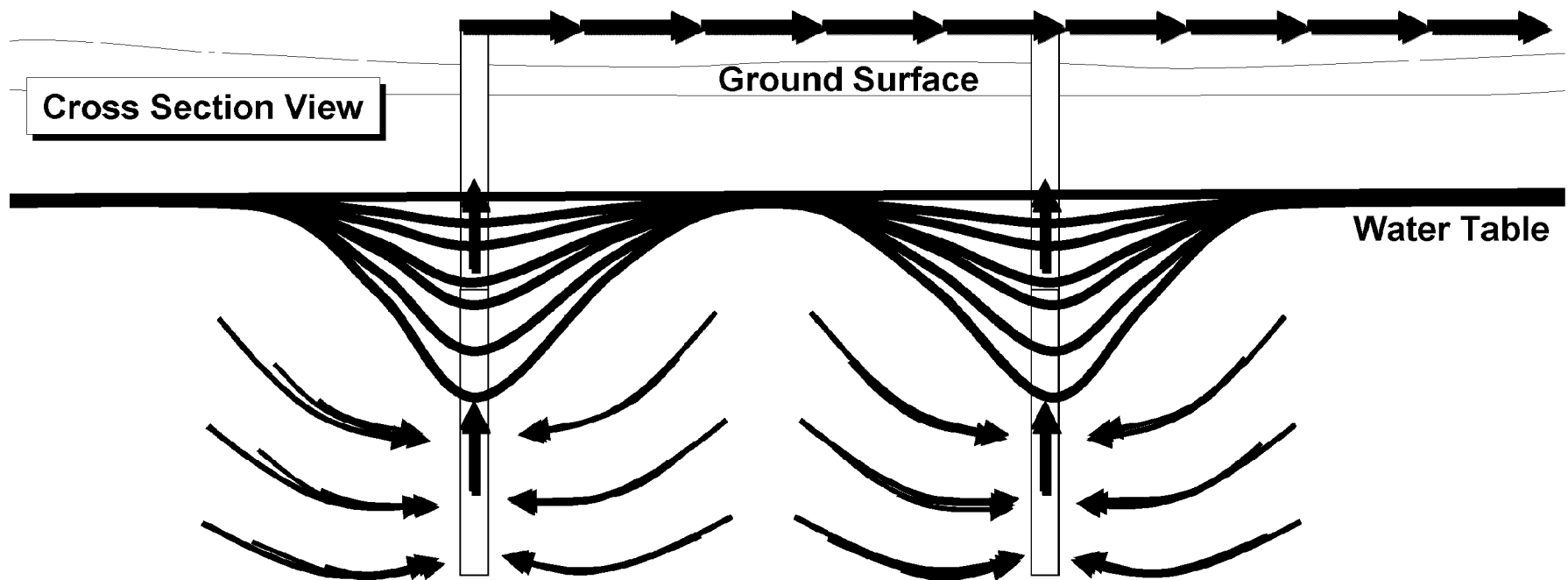
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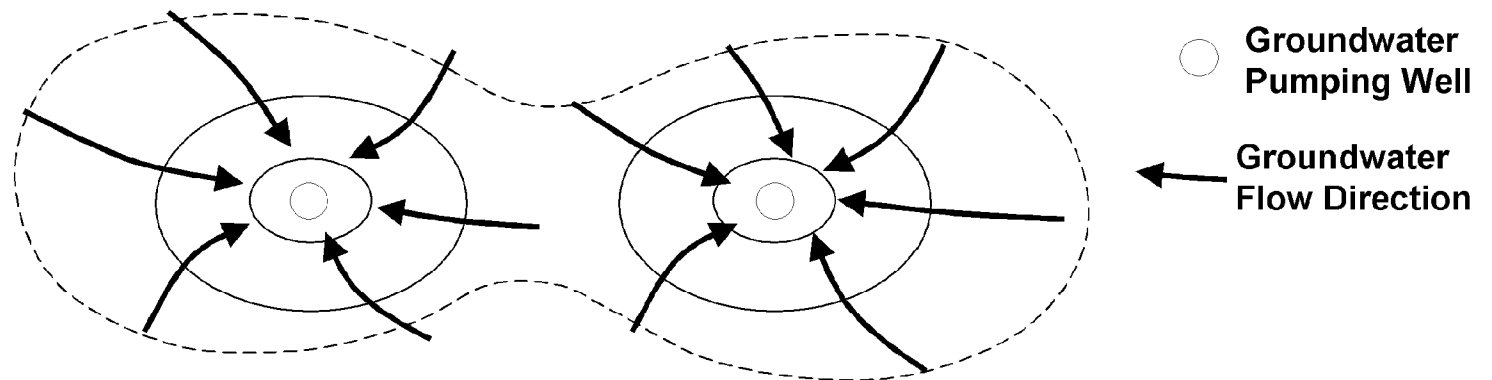
Summary of PFC Investigation Field Work (2005 – 2007)

- **Evaluate capture efficiency of the extraction Wells**
- **Assessed integrity of pipeline that conveys water from the former Woodbury disposal area to the 3M Cottage Grove facility**

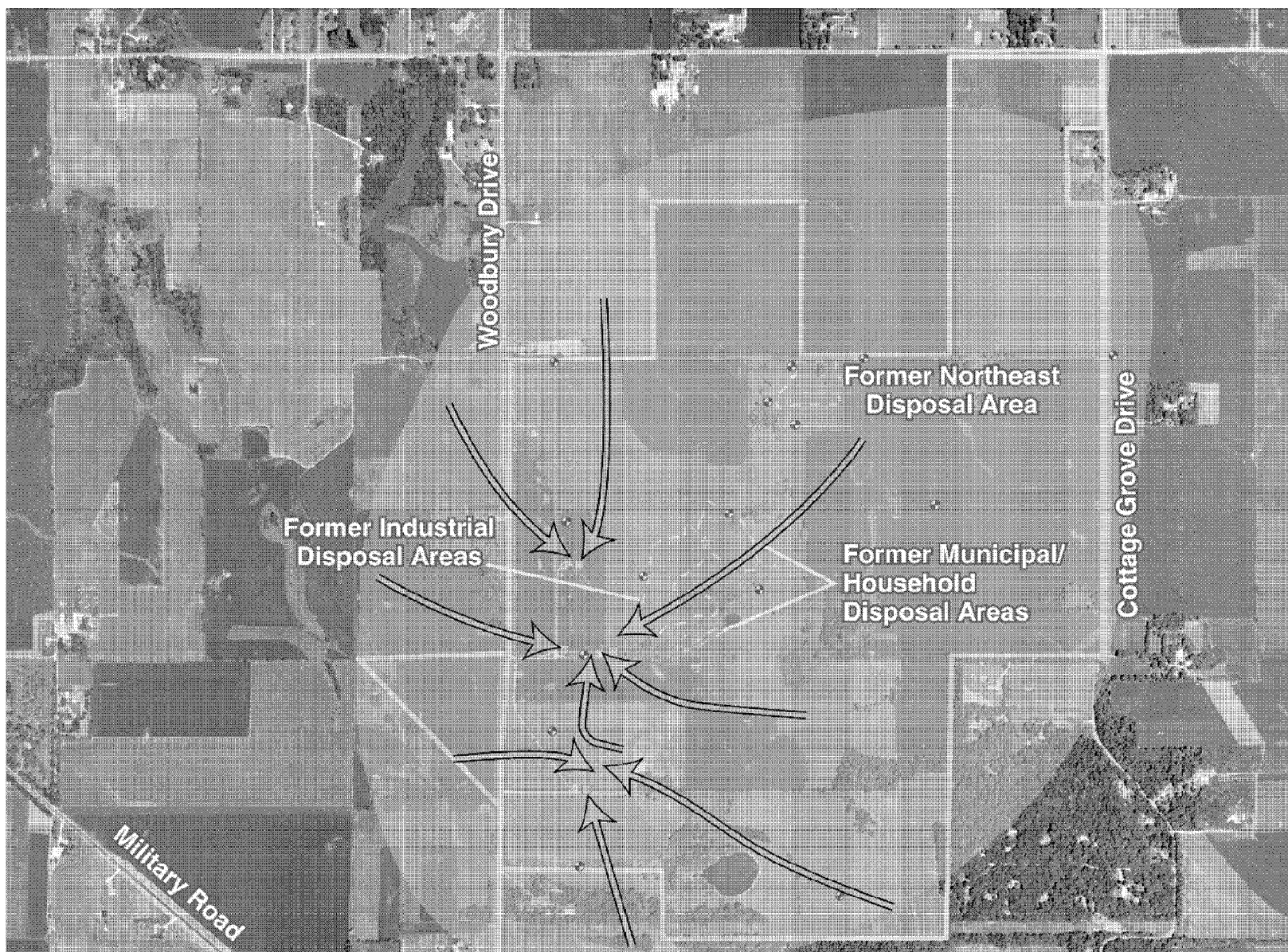
Groundwater Barrier Well Schematic



Aerial View

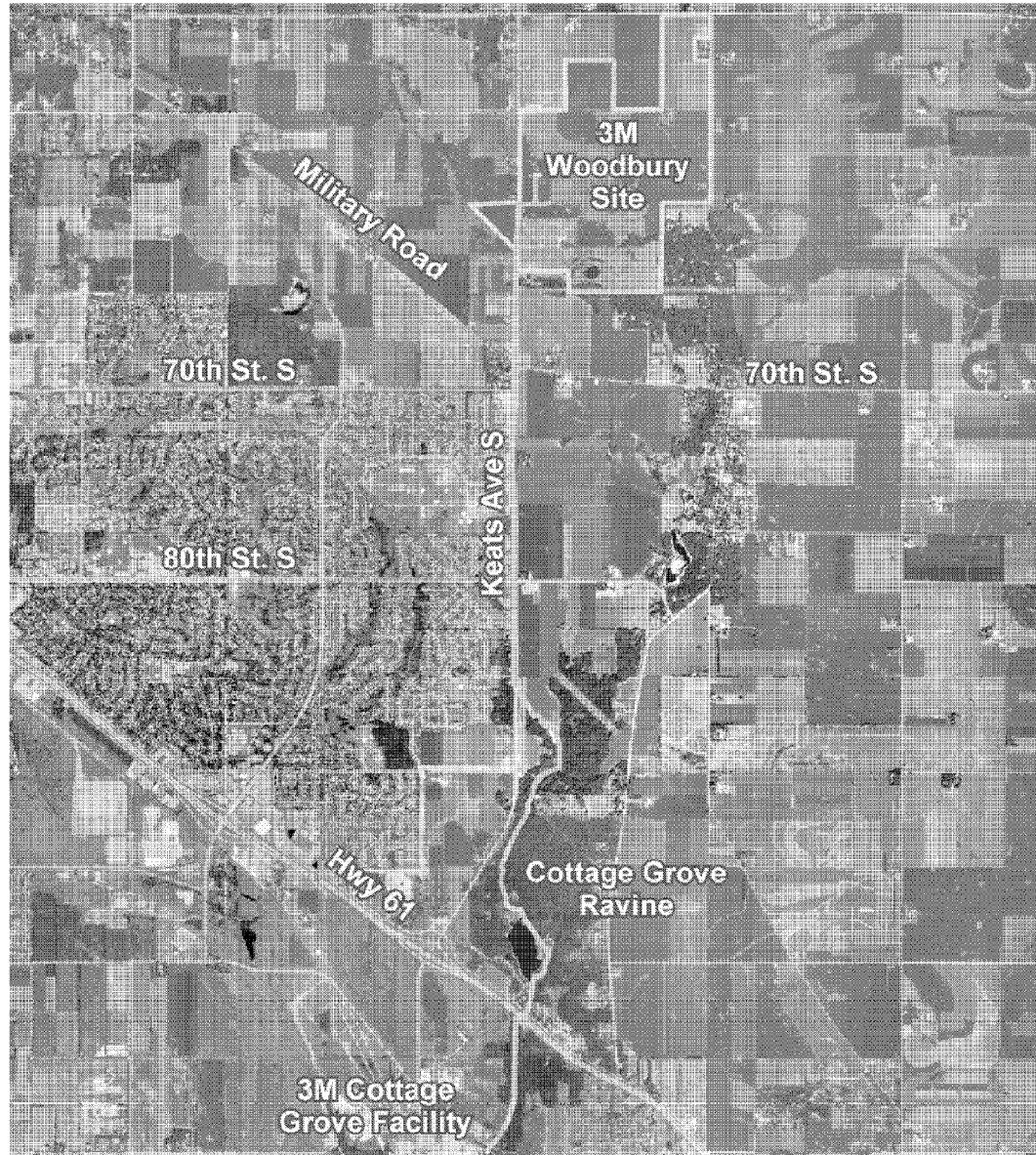


Extraction Well Capture Zone



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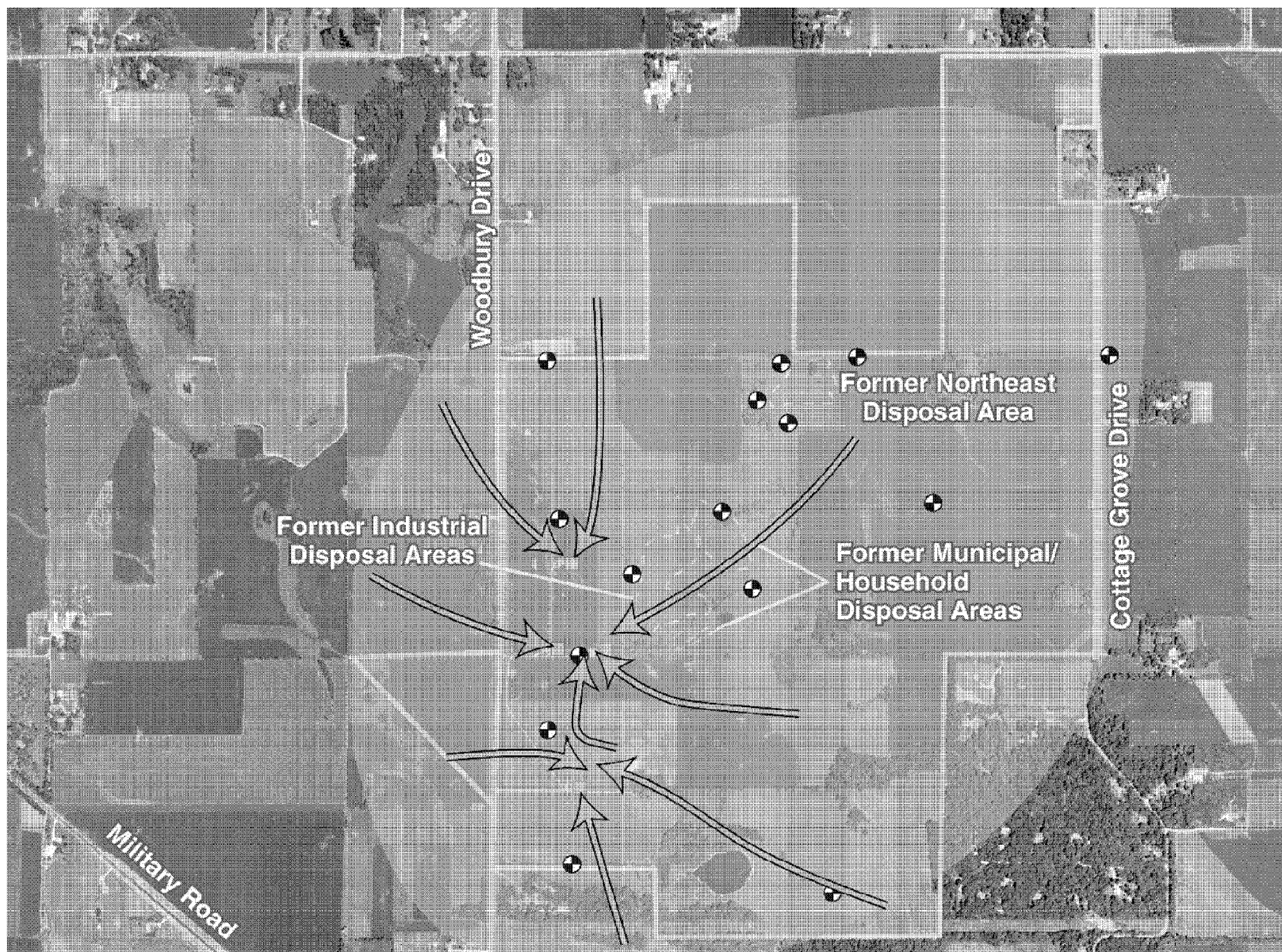
Woodbury Extraction Well Water Line



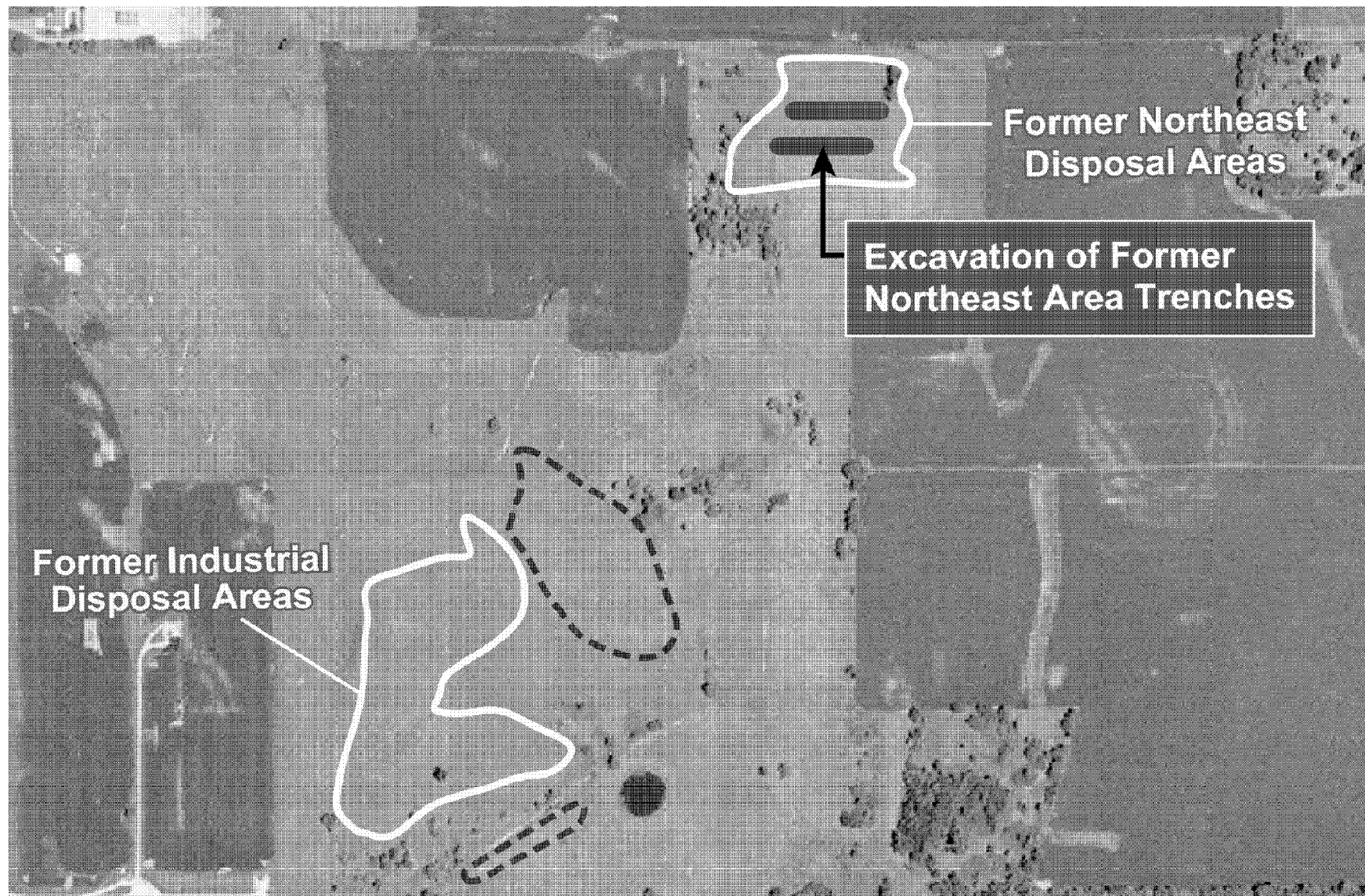
Path Forward

- **Enhance existing site remedies**
- **A range of options to further reduce the potential of future PFC exposure from the site.**

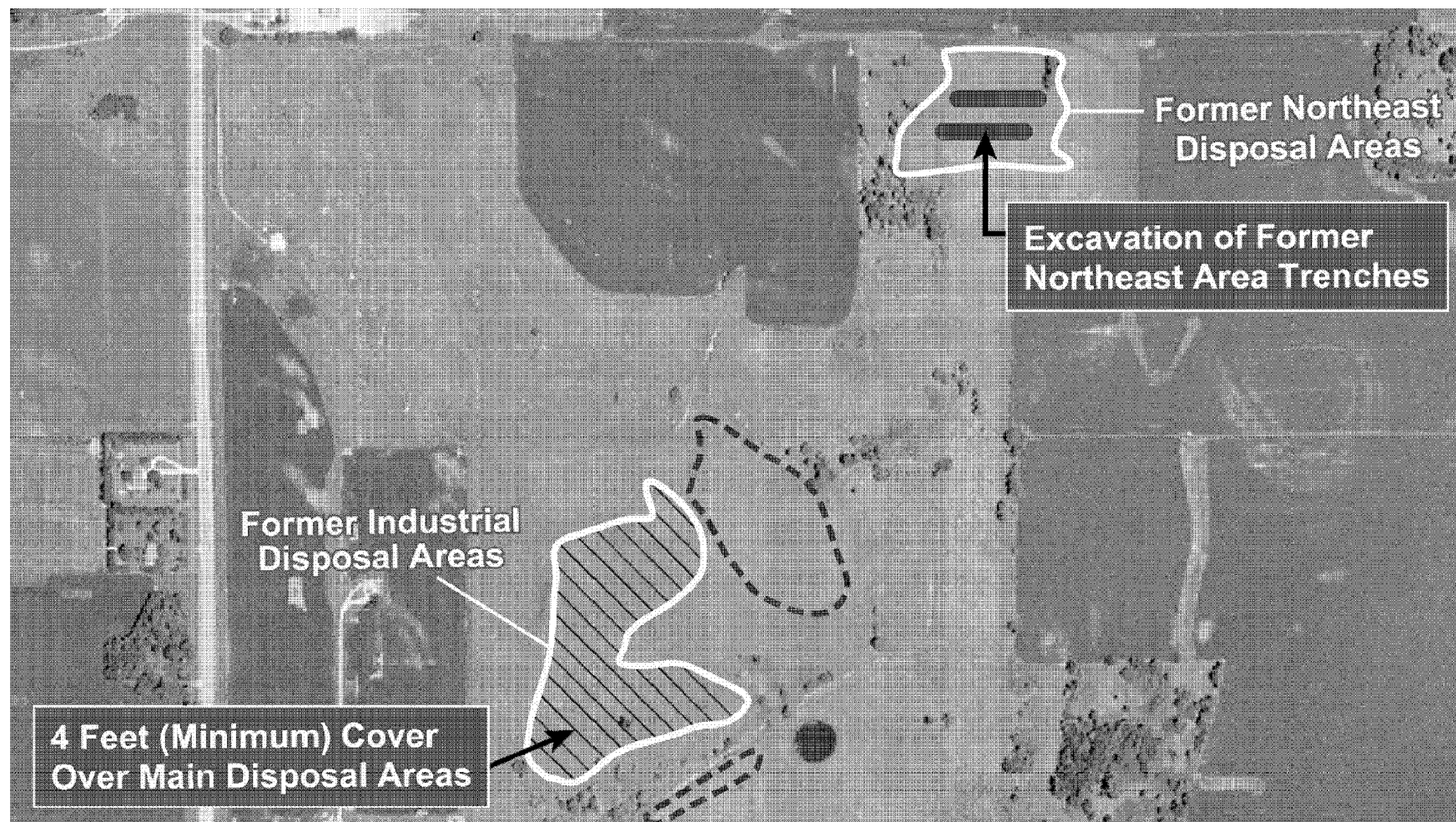
Alternative #1



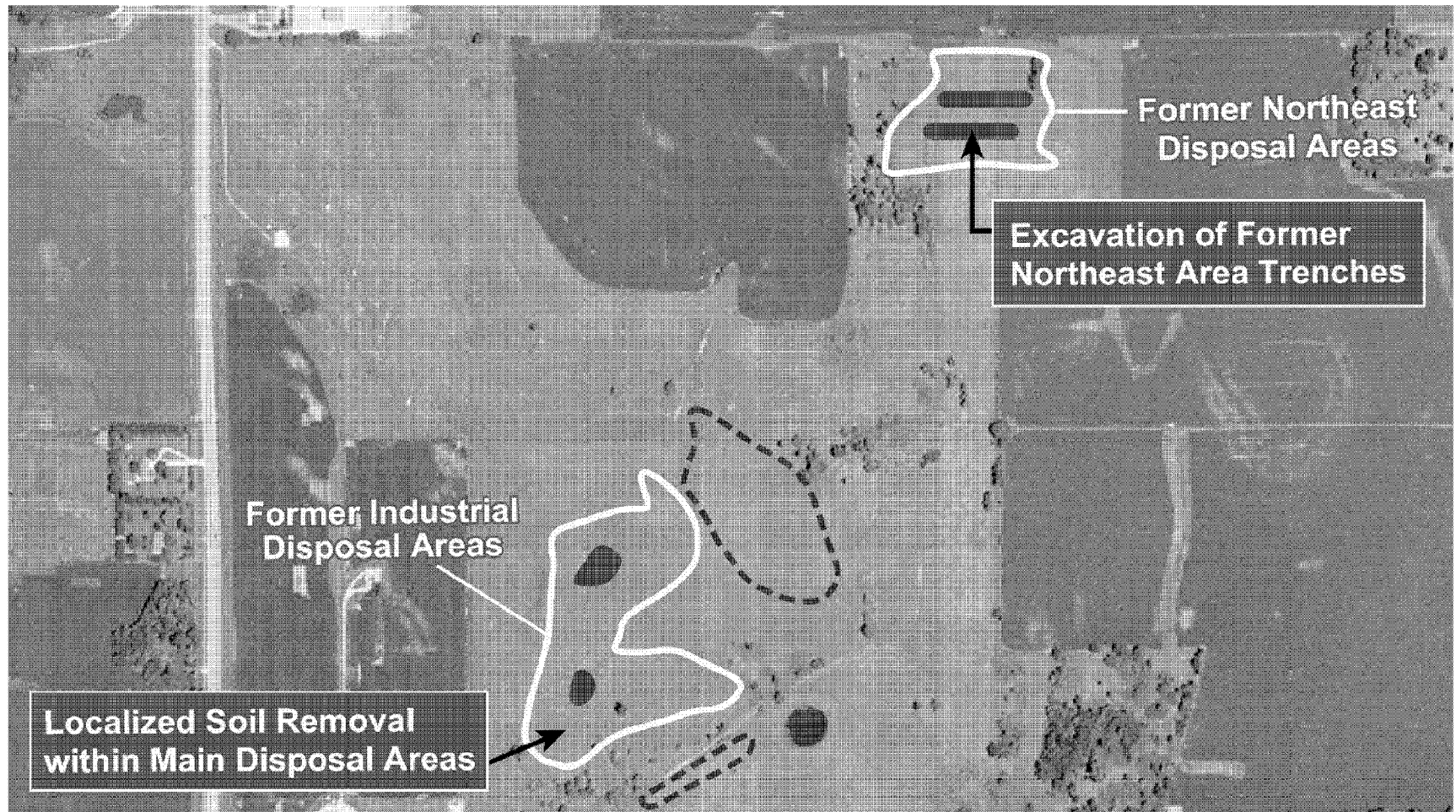
Alternative #2



Alternative #3



Alternative #4



Summary

- **All options protect the environment and groundwater.**
- **Final remedy determined by MPCA with an opportunity for public comment.**
- **Work expected to begin in 2008 and will range between 1-3 construction seasons.**

More Information:

www.3M.com/pfos-pfoa

3M E-mail:

eastmetroresponse@mmm.com

**Woodbury City Water Quality
Report:**

<http://www.ci.woodbury.mn.us>