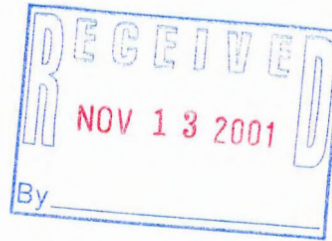


November 8, 2001

Mr. John Feeney  
Southeast Region Annex  
4041 North Richards Street  
Milwaukee, WI 53212-0436



Dear John,

On behalf of the Village of Grafton, please find enclosed the 2000 Annual Report for the Lime Kiln Landfill in Grafton. The Annual Report has been delayed because of data reporting discrepancies from the laboratory. The reporting procedure had been clarified. Data will now be sent to your office in electronic format and with tables summarizing the data. The laboratory is working directly with Kathy Thompson to provide an electronic version of the results to date. This should not affect the submittal schedule in the future.

Telephone  
920.458.8711  
Facsimile  
920.458.0537

To specifically respond to the bulleted items in your October 12, 2001, letter to the Village, the report documents activities performed during 2000 including the following:

- Construction of four groundwater wells at the site, including MW7B, the downgradient well placed on the Watts property. The construction documentation was previously sent to your office in June 2000. Further evaluations of these wells are included in the annual report.
- Four rounds of groundwater sampling as part of the evaluation of the effectiveness of natural attenuation as a remedial alternative for the site.
- Tables indicating detects and exceedences that occurred during 2000. Figures documenting seasonal groundwater conditions and trends in groundwater chemistry.

Please also find enclosed the groundwater monitoring results from the first two quarters of 2001. The third quarter sampling event has been completed and it is being evaluated and verified. These results will be sent to your office within the next few weeks.

The 2001 Annual Report is scheduled for completion in April 2001, at the completion of eight rounds of groundwater sampling. At that time, we will evaluate the data and make a recommendation regarding the effectiveness of natural attenuation at the site.

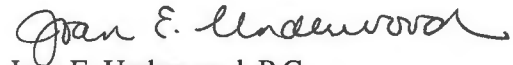


Mr. John Feeney  
November 8, 2001  
Page 2

Please let me know if you have any questions or comments regarding the annual report or the monitoring results. Please also take note of our address change.

Sincerely,

Earth Tech, Inc.

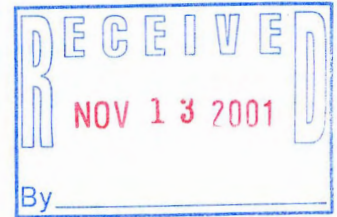


Joan E. Underwood, P.G.  
Project Manager

c. Mark Gottlieb  
Darrell Hofland  
B.J. Le Roy

L:\WORK\graftn01\admin\rp2\johnannual.doc

## 2000 Groundwater Monitoring Plan Annual Report



### Lime Kiln Landfill Grafton, Wisconsin



*Prepared for:*

**Village of Grafton  
Grafton, Wisconsin**

*Prepared by:*

**Earth Tech, Inc.  
4135 Technology Parkway  
Sheboygan, WI 53083**

November 2001

November 8, 2001

Mr. John Feeney  
Southeast Region Annex  
4041 North Richards Street  
Milwaukee, WI 53212-0436

Dear John,

On behalf of the Village of Grafton, please find enclosed the 2000 Annual Report for the Lime Kiln Landfill in Grafton. The Annual Report has been delayed because of data reporting discrepancies from the laboratory. The reporting procedure had been clarified. Data will now be sent to your office in electronic format and with tables summarizing the data. The laboratory is working directly with Kathy Thompson to provide an electronic version of the results to date. This should not affect the submittal schedule in the future.

Telephone

920.458.8711

Facsimile

920.458.0537

To specifically respond to the bulleted items in your October 12, 2001, letter to the Village, the report documents activities performed during 2000 including the following:

- Construction of four groundwater wells at the site, including MW7B, the downgradient well placed on the Watts property. The construction documentation was previously sent to your office in June 2000. Further evaluations of these wells are included in the annual report.
- Four rounds of groundwater sampling as part of the evaluation of the effectiveness of natural attenuation as a remedial alternative for the site.
- Tables indicating detects and exceedences that occurred during 2000. Figures documenting seasonal groundwater conditions and trends in groundwater chemistry.

See Appendix C

No numbers  
tables of  
detects

Please also find enclosed the groundwater monitoring results from the first two quarters of 2001. The third quarter sampling event has been completed and it is being evaluated and verified. These results will be sent to your office within the next few weeks.

The 2001 Annual Report is scheduled for completion in April 2002, at the completion of eight rounds of groundwater sampling. At that time, we will evaluate the data and make a recommendation regarding the effectiveness of natural attenuation at the site.



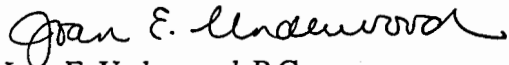


Mr. John Feeney  
November 8, 2001  
Page 2

Please let me know if you have any questions or comments regarding the annual report or the monitoring results. Please also take note of our address change.

Sincerely,

Earth Tech, Inc.



Joan E. Underwood, P.G.  
Project Manager

c. Mark Gottlieb  
Darrell Hofland  
B.J. Le Roy

L:\WORK\graftn01\admin\vp2\johnannual.doc

**TABLE OF CONTENTS**

<u>Section</u>	<u>Page</u>
<b>1.0 INTRODUCTION</b> .....	<b>1-1</b>
1.1 PURPOSE .....	1-1
1.2 REPORT ORGANIZATION .....	1-1
<b>2.0 SITE INVESTIGATION SUMMARY</b> .....	<b>2-1</b>
2.1 SITE LOCATION .....	2-1
2.2 CONCEPTUAL HYDROGEOLOGIC MODEL .....	2-1
2.3 1999 INVESTIGATION REPORT CONCLUSIONS AND RECOMMENDATIONS .....	2-2
2.3.1 Current Status .....	2-2
<b>3.0 GROUNDWATER MONITORING</b> .....	<b>3-1</b>
3.1 GROUNDWATER OCCURRENCE AND FLOW .....	3-1
3.2 SAMPLE DATA ANALYSIS .....	3-1
3.2.1 Monitoring Plan .....	3-2
3.2.2 Monitoring List A - Natural Attenuation Wells .....	3-2
3.2.3 Monitoring List B - Private and Sentinel Wells .....	3-4
3.3 LIME KILN LANDFILL PLUME TRENDS .....	3-4
<b>4.0 NATURAL ATTENUATION SUMMARY</b> .....	<b>4-1</b>
<b>5.0 CONCLUSIONS</b> .....	<b>5-1</b>
<b>6.0 RECOMMENDATIONS</b> .....	<b>6-1</b>

**LIST OF TABLES**

<u>Table</u>	<u>Follows Page</u>
1 Approved Monitoring Plan - 2000 .....	3-1
2 Detected Volatile Organics and NR 140 Public Health Exceedances - January 2000 to December 2000 .....	3-1
3 Dissolved Oxygen and Reduction-Oxidation Potential Measurements - September 2001 .....	3-5

**LIST OF FIGURES**

<u>Figure</u>	<u>Follows Page</u>
1 Existing Conditions .....	2-1
2 Piezometric Contour Map - March 2000 .....	3-1
3 Piezometric Contour Map - June 2000 .....	3-1
4 Piezometric Contour Map - September 2000 .....	3-1
5 Piezometric Contour Map - December 2000 .....	3-1
6 TCE and Vinyl Chloride Concentration vs. Time Plots .....	3-2
7 TCE and Vinyl Chloride Concentration vs. Distance Plots .....	3-4

## LIST OF APPENDICES

### Appendix

- A Affected Groundwater Areas Map
- B Final Investigation Report Correspondence
- C Calculation Sheets
- D Groundwater Monitoring Data
- E Mann-Kendall Statistical Analyses
- F Revised Monitoring Plan
- G Groundwater Monitoring Data

## 1.0 INTRODUCTION

### 1.1 PURPOSE

This annual report summarizes the environmental monitoring results and trends at the Lime Kiln Landfill, and evaluates the effectiveness of the natural attenuation remedy that is being assessed as approved in the Investigation Report (Earth Tech, 1999). This is the first annual report submitted for the site, and it describes and documents site conditions and activities from 2000. This report fulfills the requirements of NR 724, that requires reporting of groundwater analysis and site activities. Accordingly, this report includes:

- Documentation of monitoring wells installed per WDNR's natural attenuation guidance.
- Presentation of groundwater analytical results.
- Evaluation of groundwater data trends and evidence of the natural attenuation process.
- Recommendations for future monitoring considerations.

Groundwater data presented in this report includes five sample events completed in 2000 (January, March, June, September and December). Routine quarterly monitoring data has been, and will continue to be, provided to the WDNR separate from the Annual Report format. The next scheduled annual report will be compiled after the fourth quarter of 2001.

### 1.2 REPORT ORGANIZATION

The report is organized as follows; Section 3 provides a brief regulatory summary, describing where the site is to date within the regulatory framework. The investigation scope of work, as well as the site setting, is summarized in Section 2. Section 3, groundwater monitoring, presents the physical and chemical groundwater data collected as part of the monitoring that has taken place during 2000. Section 4 is a summary of the natural attenuation process as it occurs at Lime Kiln Landfill. Sections 5 and 6 are the conclusions and the recommendations of this report.

## 2.0 SITE INVESTIGATION SUMMARY

This section summarizes the Site Investigation and Preliminary Remedial Action Investigation Report (Earth Tech, 1999). A full explanation of the site history and investigation is in the Site Investigation Report.

The Lime Kiln Landfill in Grafton, Wisconsin, was investigated under Wisconsin Administrative Code (WAC) NR 700, by the Wisconsin Department of Natural Resources (WDNR) because of impacts of the landfill on the environment.

The Lime Kiln Landfill is defined as a "complex" site under NR 700, based on the groundwater sample results. This designation requires the following be completed: 1) site investigation, 2) identification and evaluation of remedial action options, 3) remedial alternative selection, 4) design, 5) maintenance and operation of remedial actions implemented, and 6) site monitoring. The Village of Grafton completed Items 1 and 2 of this list in the Site Investigation and Preliminary Remedial Action Identification Report (Earth Tech, 1999).

### 2.1 SITE LOCATION

The Lime Kiln Landfill site is within the limits of Lime Kiln Park in the Village of Grafton, Ozaukee County. The Milwaukee River borders the south and east edges of the park, while residential areas border the northeast, west, and southwest sides of the Park, as well as the east side of the Milwaukee River. Industries and businesses are located west, north, and northwest of the park along Wisconsin Avenue. The quarry area actually filled is approximately 1.4 acres based upon the field investigation results. The landfill location and site conditions are shown on Figure 1.

### 2.2 CONCEPTUAL HYDROGEOLOGIC MODEL

The conceptual groundwater flow model consists of thin unconsolidated glacial deposits and fill which overlie an unconfined dolomite bedrock aquifer. The dolomite aquifer contains lithologic changes, and individual hydrostratigraphic units were classified as aquifers or aquitards. The vertical extent of the conceptual model is bounded by a lower permeability aquitard.

The Silurian-age dolomite aquifer is comprised of undifferentiated Racine Formation and the Romeo beds of the Racine Formation. The aquifer extends approximately 200 feet below the top of bedrock, coincident with the contact of the underlying Waukesha Formation. The Waukesha Formation is designated as an aquitard because it is fine-grained and unweathered.

Northwest of the Park, the water table is on the order of 15 to 20 feet below the ground surface. At the landfill, the water is about 20 feet below ground surface, saturating the lower portion of the waste in the landfill.

The Milwaukee River forms the eastern boundary of the Park. The 500- to 700-foot reach of the river immediately downstream of the dam adjacent to the park is higher than the water table. Water, therefore, flows from the river bottom to the aquifer.

The local component of the flow system in the vicinity of the site is less pronounced than the regional components. Groundwater in the uppermost aquifer (Racine Formation including the Romeo beds) is considered part of the regional flow systems with a recharge area encompassing the site, as well as topographically high areas west of the site. Longer flow paths and discharge to Lake Michigan located about 2.5 miles to the east of the site also characterize the regional flow system.



Once water reaches the water table, flow is controlled by the hydraulic head in the units as shown by water levels in wells surrounding the site. The downward gradients are consistent with the site's position within a recharge area as evidenced by vertical gradients observed in the investigation report.

Groundwater flow is controlled primarily by the bedrock structure and the regional discharge to Lake Michigan. In highly transmissive zones (higher hydraulic conductivity), advective contaminant transport within the aquifer yields a narrow plume.

The regional groundwater flow pattern may also be influenced by public and private water supply wells in the area. The Village of Grafton has seven water supply wells that pump groundwater. Two wells with limited usage are located near Lime Kiln Park and are shown on Figure 1. Private residence wells outside the Village limits also withdraw groundwater and may affect groundwater flow.

### **2.3 1999 INVESTIGATION REPORT CONCLUSIONS AND RECOMMENDATIONS**

The 1999 Investigation Report had the following conclusions:

- The Lime Kiln Landfill is a source of groundwater impacts.
- Groundwater is impacted in the upper 100 to 200 feet of the Racine Dolomite.
- Two groundwater contaminant plumes were delineated during this investigation. Groundwater contamination from the landfill is limited to the area shown on Figure 8 of the investigation report (included in Appendix A). Groundwater contamination from other sources contribute to the West Plume, also shown on Figure 8. The plumes are distinguished by compounds unique to each plume. NR 140 standards are exceeded for limited compounds in each plume.
- Treatment of the landfill plume is occurring through natural attenuation of parent VOC products as evidenced by the presence of breakdown by-products, and the levels of natural attenuation indicators in groundwater.

The WDNR and the Village of Grafton agreed to the following in 2000 to implement a long-term monitoring program:

- Two private residence wells, PW1788MR and PW1749MR, were converted to monitoring wells screened in the "B" monitoring zone to monitor the west edge of downgradient contamination and to monitor the middle of the Lime Kiln plume.
- Two additional wells were installed. A shallow well was nested with the monitoring well at PW1749 to monitor shallow groundwater concentrations in the middle of the plume. A downgradient well was constructed on the Watts property, also in the "B" monitoring zone, to monitor concentrations between the known plume and downgradient private wells.
- The monitoring plan proposed in Table 13 of the Investigation Report has been carried out for four quarters to evaluate natural attenuation as a remedial option at the Lime Kiln Landfill.

#### **2.3.1 Current Status**

Groundwater monitoring to determine the feasibility of natural attenuation as a remedial option is ongoing. A complete analysis of natural attenuation as a cleanup remedy will be submitted as required

after eight rounds of groundwater sampling have been completed. The eighth round of sampling is scheduled for December 2001.

Prior submittals to the Department include the Investigation Report, sampling results through September 2000, response to comments on the Investigation Report in January 2000, and construction documentation of required monitoring wells P7B, P8A and P8B, and P9B in June 2000. Groundwater sampling results will be sent in electronic format to the Department as required on a quarterly basis in future sampling events, with summary tables indicating groundwater exceedences.

### 3.0 GROUNDWATER MONITORING

The approved monitoring plan is outlined in Table 1, which lists the wells, parameters, and monitoring frequency for 2000. In addition to water sampling, water levels are collected from site wells to evaluate groundwater flow conditions.

Within the groundwater monitoring program, wells are divided into two major groups, labeled A and B. Group A wells are to evaluate the natural attenuation process. Group B wells are used to monitor the edges of the plume, and as sentinel wells for downgradient groundwater users. Group A wells are monitored quarterly for lists A (VOCs), B (Natural attenuation parameters), and C (indicator parameters). Group B wells are monitored semi-annually for list A (VOCs) only.

Groundwater results are being supplied in this report as required in NR 724. At the completion of eight sample rounds, an evaluation of natural attenuation as a remedial option for this site will be completed, according to NR 722 and WDNR natural attenuation guidance documents.

#### 3.1 GROUNDWATER OCCURRENCE AND FLOW

The water table represents the top of the groundwater flow system. The water table surface at the landfill has been measured in monitoring wells LH-1, LH-2, and P-2A, at approximately 20 feet below ground surface.

Groundwater elevations for the piezometric surface within the Racine Formation "B" monitoring zone, at an elevation between approximately 630 and 650 feet MSL, are depicted on Figures 2 through 5. One piezometric surface was created for each quarter of the year as required. There are only slight variations in water elevations throughout the year.

As shown on the Figures 2 through 5, the piezometric surface ranges in elevation from approximately 710 feet MSL at upgradient well P-4B to 685 feet MSL southeast of the site at P8B. Based on these elevations, groundwater within the undifferentiated Racine Formation flows to the south-southeast near Lime Kiln Park, as was shown during the site investigation.

Horizontal hydraulic gradients are similar to those calculated in the investigation report, ranging from 0.018 and 0.015 feet/foot.

Vertical hydraulic gradients were calculated for each quarter from water level data collected at piezometer nests P-2A/P-2B and P-8A/P-8B. Gradient calculations are documented in Appendix C. Vertical gradients are downward, consistent with those measured during the investigation. The calculated vertical gradient within the undifferentiated Racine Formation at the P-2A/B piezometer ranges from approximately 0.051 to 0.058 feet/foot downward. At the P-8A/B piezometer nest, the calculated vertical gradient ranges from 0.008 to 0.017 feet/foot downward. This downward flow component is consistent with the site's location within a recharge area.

#### 3.2 SAMPLE DATA ANALYSIS

This section presents the data from five sample events in 2000 (January, March, June, September, and December). Wells constructed in March 2000 (P7B, P8A, P8B, P9B) were sampled during the last four rounds of 2000. The results were compiled and compared to NR 140 groundwater standards. They were also reviewed to identify trends in compound concentrations and evaluate the process of natural attenuation that is occurring at the site.

**TABLE 1**

**APPROVED MONITORING PLAN - 2000  
VILLAGE OF GRAFTON**

**Parameter List**

- Analysis A. VOCs  
Analysis B. Natural Attenuation Parameters - Methane, Ethane, Ethene, Chloride, Nitrate, RCRA Metals  
Analysis C. Indicator Parameters - DO, ORP, pH, Temperature, Conductivity, Alkalinity

**Well Groups**

Well List 1

- LH-01 - Groundwater within waste  
LH-02 - Groundwater within waste  
P2A - Downgradient of landfill  
P2B - Downgradient of landfill  
P4B - Upgradient of landfill  
P7B - Downgradient of landfill  
P8A - Downgradient of landfill  
P8B - (formerly PW1749) - Downgradient degree of plume  
P3B - Sidegradient of landfill - west side  
P9B - (formerly PW1788) - Sidegradient of plume - west side

Well List 2

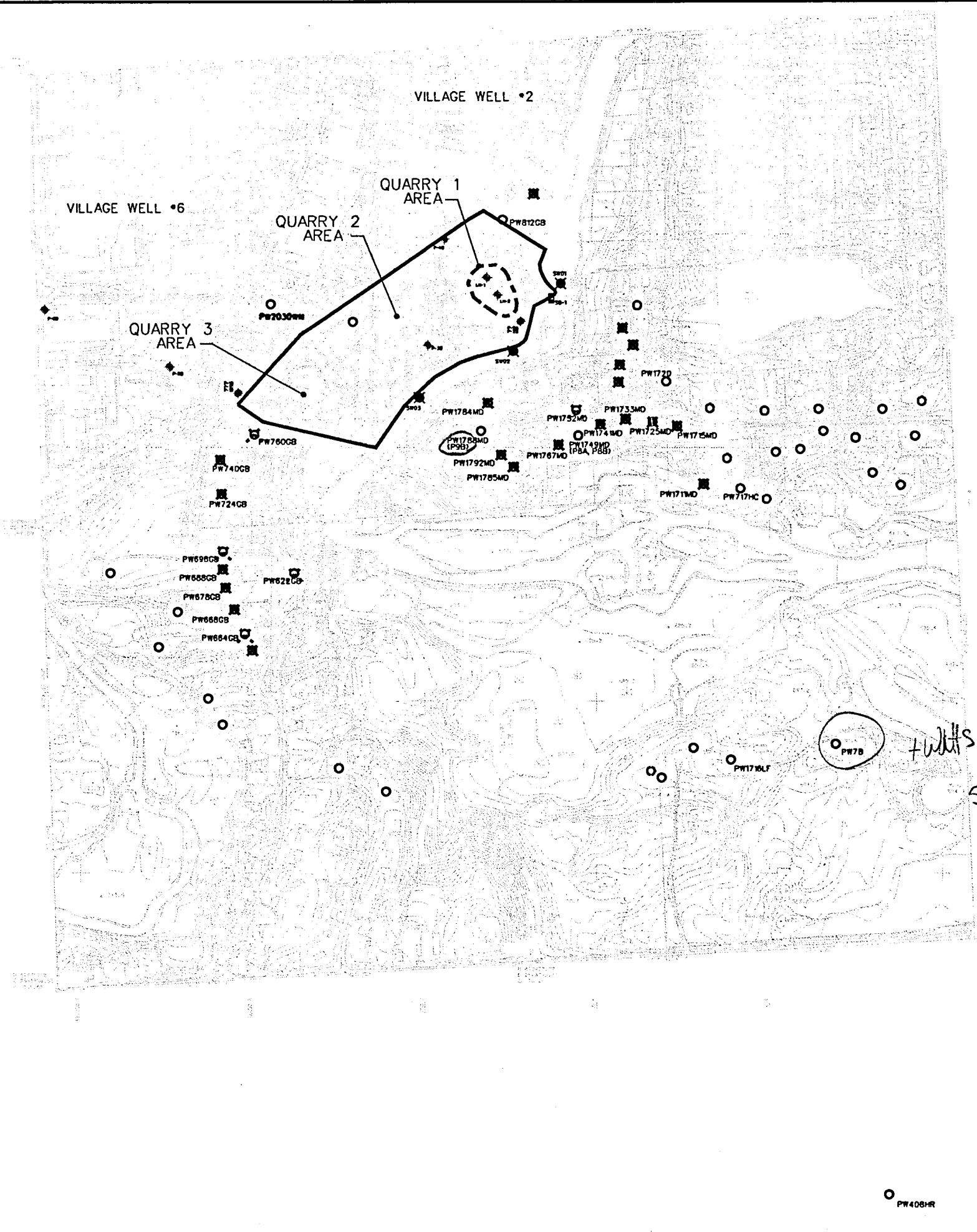
- PW1530LR  
PW1587LR  
PW1716LR  
PW461HR  
PW717HC (Sidegradient of plume - east side)

**Monitoring Plan**

- Well List 1  
Quarterly analysis of List A, B, C (March, June, September, December)
- Well List 2  
Semi-annual analysis of List A (June, December)



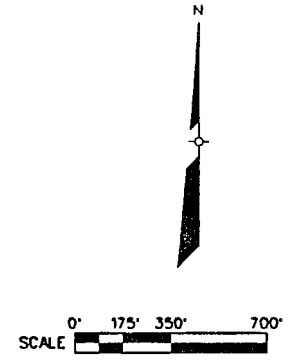
FILE 02  
 DATE - Thu Nov 14:36:59 2001  
 DGN - \\shbs02\data\work\graffin01\cadd\2001\site\map.erd



*Well's well  
 Same as other  
 B depths*

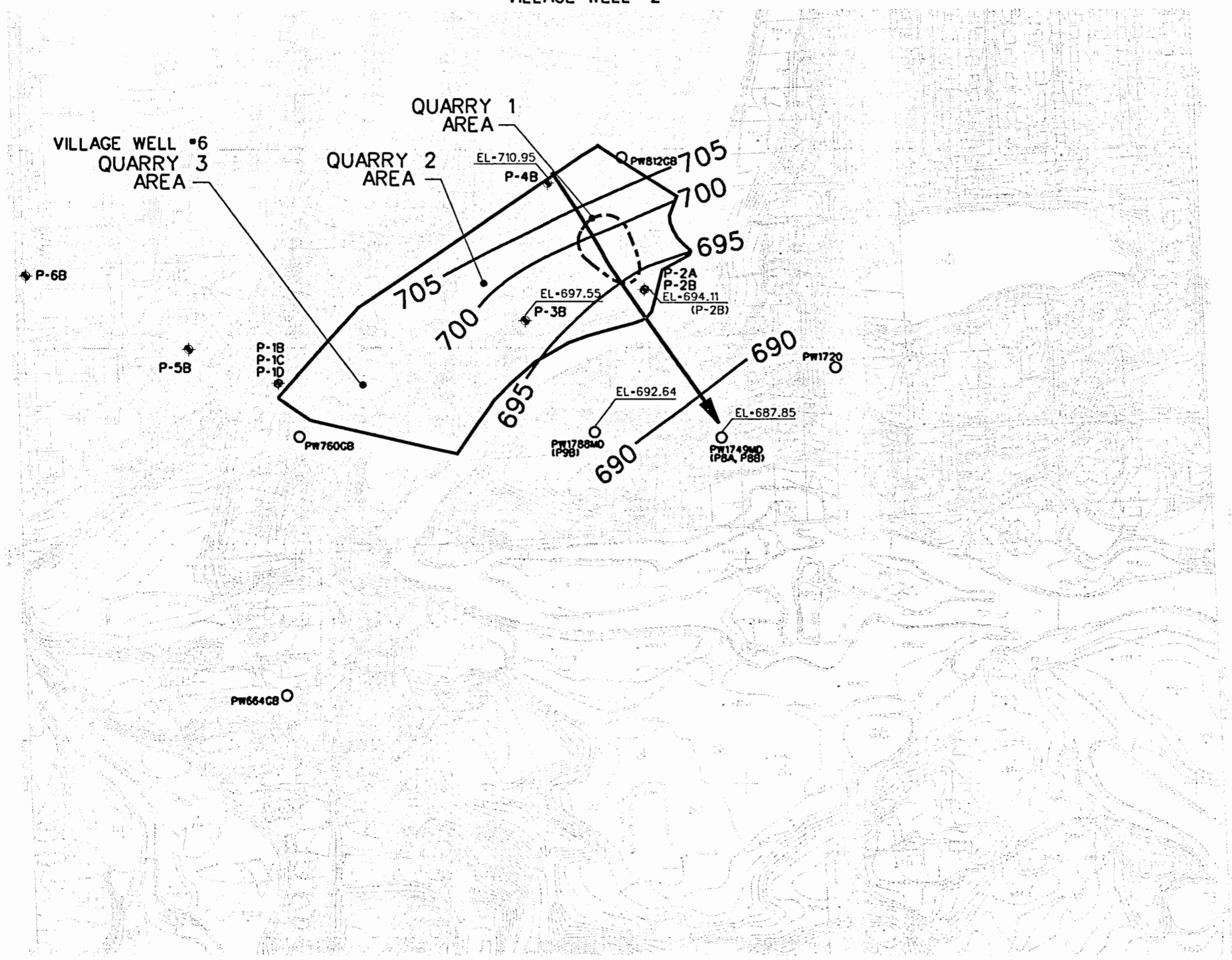
EXPLANATION	
	LIME KILN PARK PROPERTY BOUNDARY
	LIMITS OF WASTE (GEOPHYSICS AND GEOPROBE)
	PRIVATE WATER SUPPLY WELL TO BE ABANDONED
	ABANDONED PRIVATE WATER SUPPLY WELL
	PRIVATE WATER SUPPLY WELL THAT HAVE BEEN SAMPLED
	SURFACE WATER SAMPLE
	MONITORING WELL
	LEACHATE WELL
	MONITORING WELL NEST
	STAFF GAUGE

- NOTES:
1. TOPOGRAPHIC BASE MAP AND PRIVATE WELL LOCATIONS COMPILED FROM WISCONSIN DEPARTMENT OF NATURAL RESOURCES.
  2. HORIZONTAL DATUM BASED ON STATE PLANE COORDINATES.





VILLAGE WELL #2

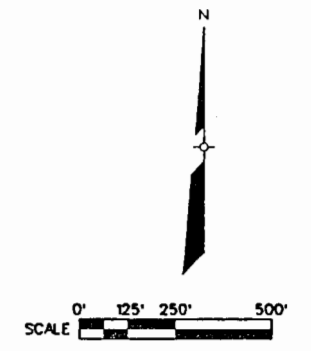


EXPLANATION

- LIME KILN PARK PROPERTY BOUNDARY
- ESTIMATED LIMITS OF WASTE (GEOPHYSICS AND GEOPROBE)
- GROUNDWATER CONTOURS (5 FOOT INTERVAL)
- GROUNDWATER FLOW DIRECTION
- LEACHATE WELL NEST WITH PIEZOMETRIC ELEVATION, DESIGNATED WELL IN PARENTHESES
- PIEZOMETER WITH PIEZOMETRIC ELEVATION
- PRIVATE WELL WITH PIEZOMETRIC ELEVATION

NOTES:

1. TOPOGRAPHIC BASE MAP AND PRIVATE WELL LOCATIONS COMPILED FROM WISCONSIN DEPARTMENT OF NATURAL RESOURCES.
2. HORIZONTAL DATUM SYSTEM BASED ON THE STATE PLANE COORDINATE SYSTEM.
3. ELEVATIONS ARE USGS MEAN SEA LEVEL, DATUM BASED ON GROUNDWATER LEVELS MEASURED ON MARCH 24, 2000.



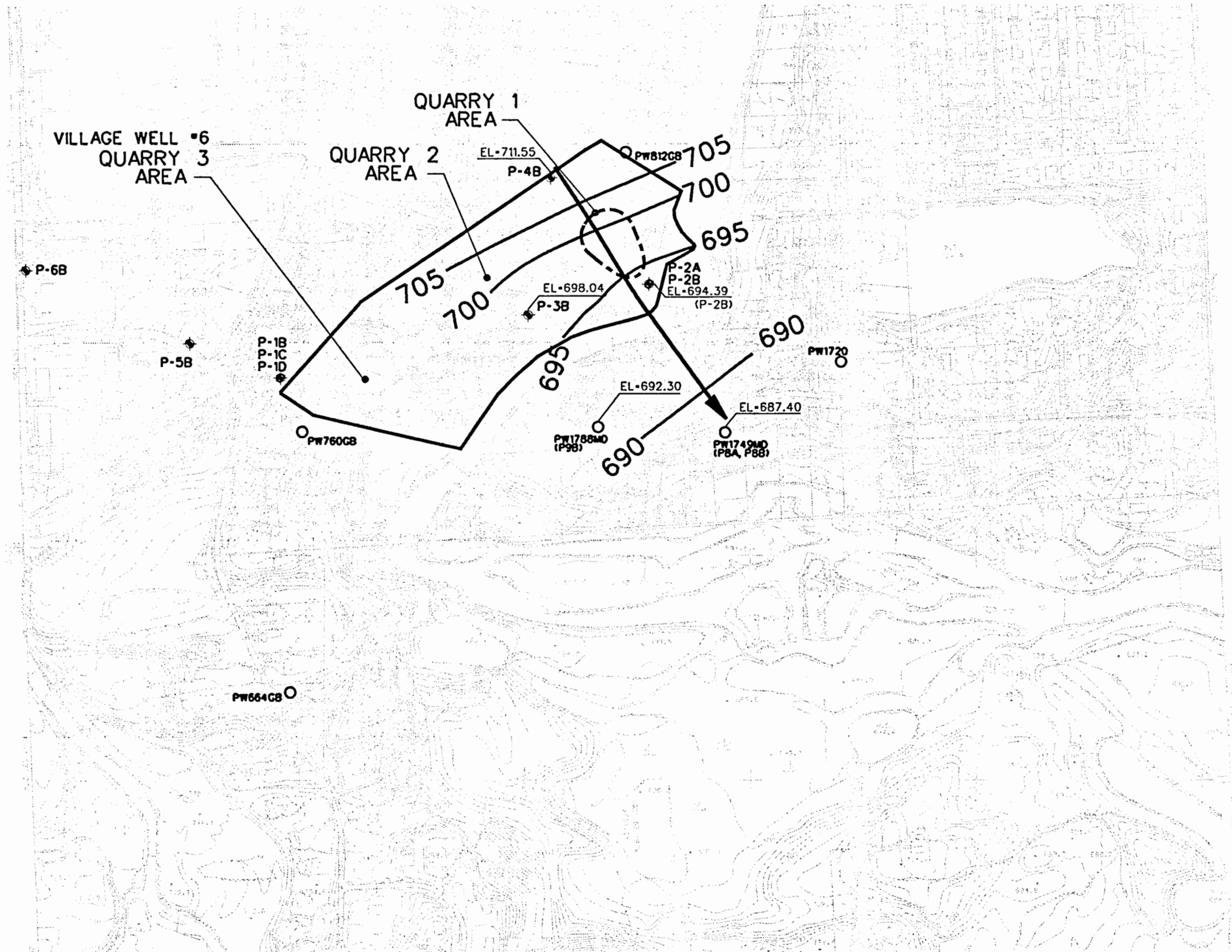
**EARTH TECH**

**FIGURE 2**  
**PIEZOMETRIC CONTOUR MAP-**  
**MARCH 2000**  
 2000 ANNUAL REPORT  
 VILLAGE OF GRAFTON  
 GRAFTON, WISCONSIN

NOV 2001 30250

REFERENCE FILE 03 \\shbs02\data\work\grftn01\cadd\2001\gw0300.dgn  
 DATE - Thu Nov 1 09:38:11 2001  
 DGN - \\shbs02\data\work\grftn01\cadd\2001\gw0300.dgn

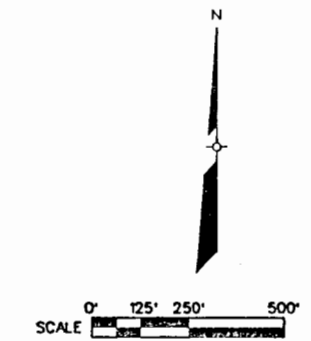
VILLAGE WELL #2



**EXPLANATION**

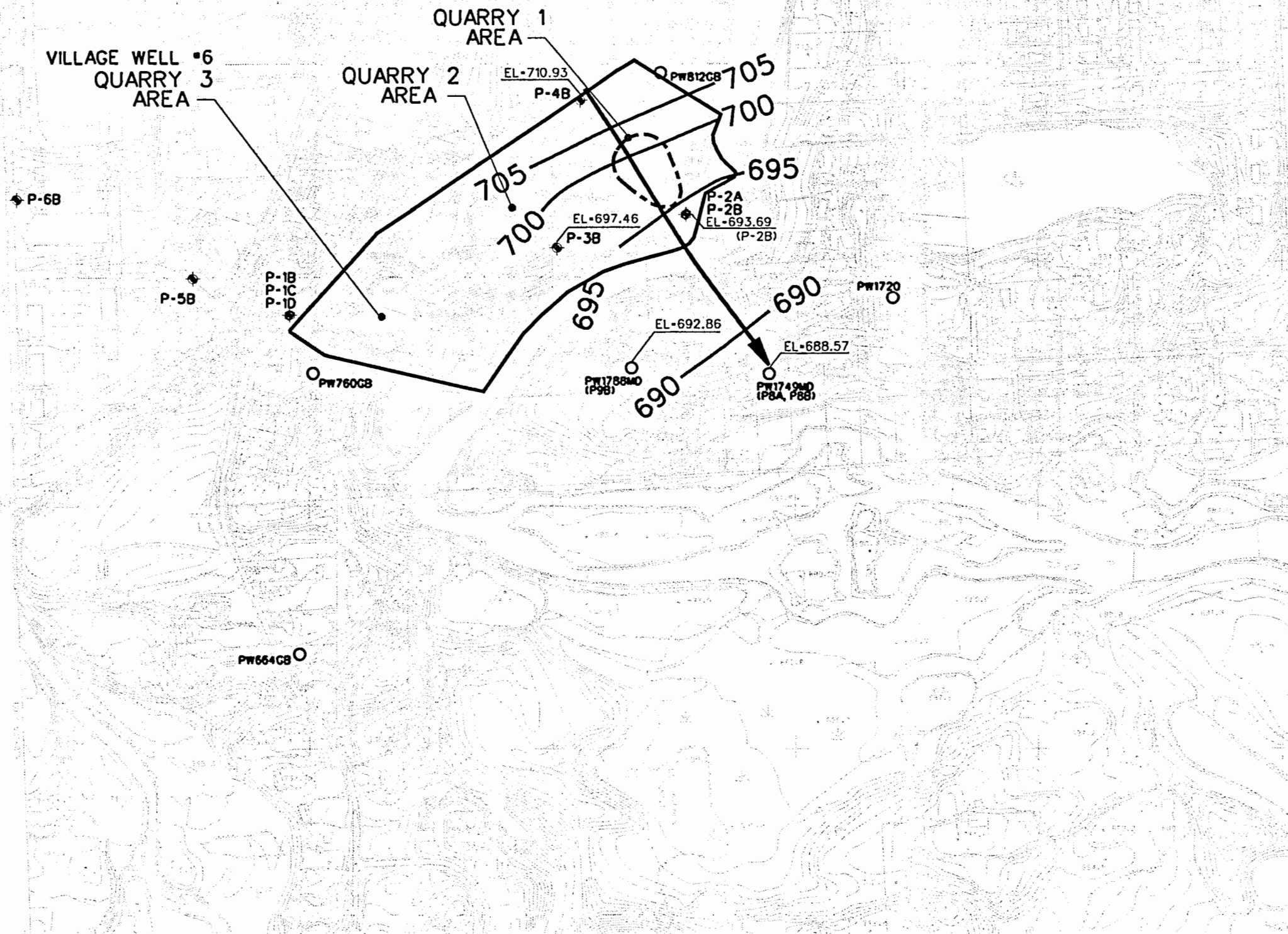
	LIME KILN PARK PROPERTY BOUNDARY
	ESTIMATED LIMITS OF WASTE (GEOPHYSICS AND GEOPROBE)
	GROUNDWATER CONTOURS (5 FOOT INTERVAL)
	GROUNDWATER FLOW DIRECTION
	LEACHATE WELL NEST WITH PIEZOMETRIC ELEVATION. DESIGNATED WELL IN PARENTHESES
	PIEZOMETER WITH PIEZOMETRIC ELEVATION
	PRIVATE WELL WITH PIEZOMETRIC ELEVATION

- NOTES:**
1. TOPOGRAPHIC BASE MAP AND PRIVATE WELL LOCATIONS COMPILED FROM WISCONSIN DEPARTMENT OF NATURAL RESOURCES.
  2. HORIZONTAL DATUM SYSTEM BASED ON THE STATE PLANE COORDINATE SYSTEM.
  3. ELEVATIONS ARE USGS MEAN SEA LEVEL, DATUM BASED ON GROUNDWATER LEVELS MEASURED ON JUNE 19, 2000.



REVISIONS: E 02  
 REFERENCE FILE D3  
 DATE: Thu Nov 1 09:37:56 2001  
 DGN: \\shbs02\data\work\graffn01\cadd\2001\gw0600.dgn

VILLAGE WELL #2

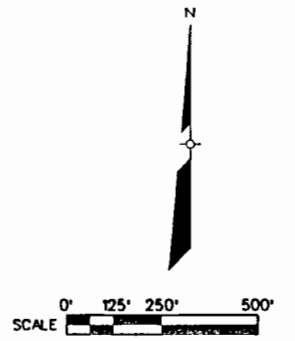


EXPLANATION

- LIME KILN PARK PROPERTY BOUNDARY
- ESTIMATED LIMITS OF WASTE (GEOPHYSICS AND GEOPROBE)
- GROUNDWATER CONTOURS (5 FOOT INTERVAL)
- GROUNDWATER FLOW DIRECTION
- LEACHATE WELL NEST WITH PIEZOMETRIC ELEVATION, DESIGNATED WELL IN PARENTHESES
- P-2A  
P-2B
- EL-710.93  
P-4B
- EL-687.85  
PW1749MD

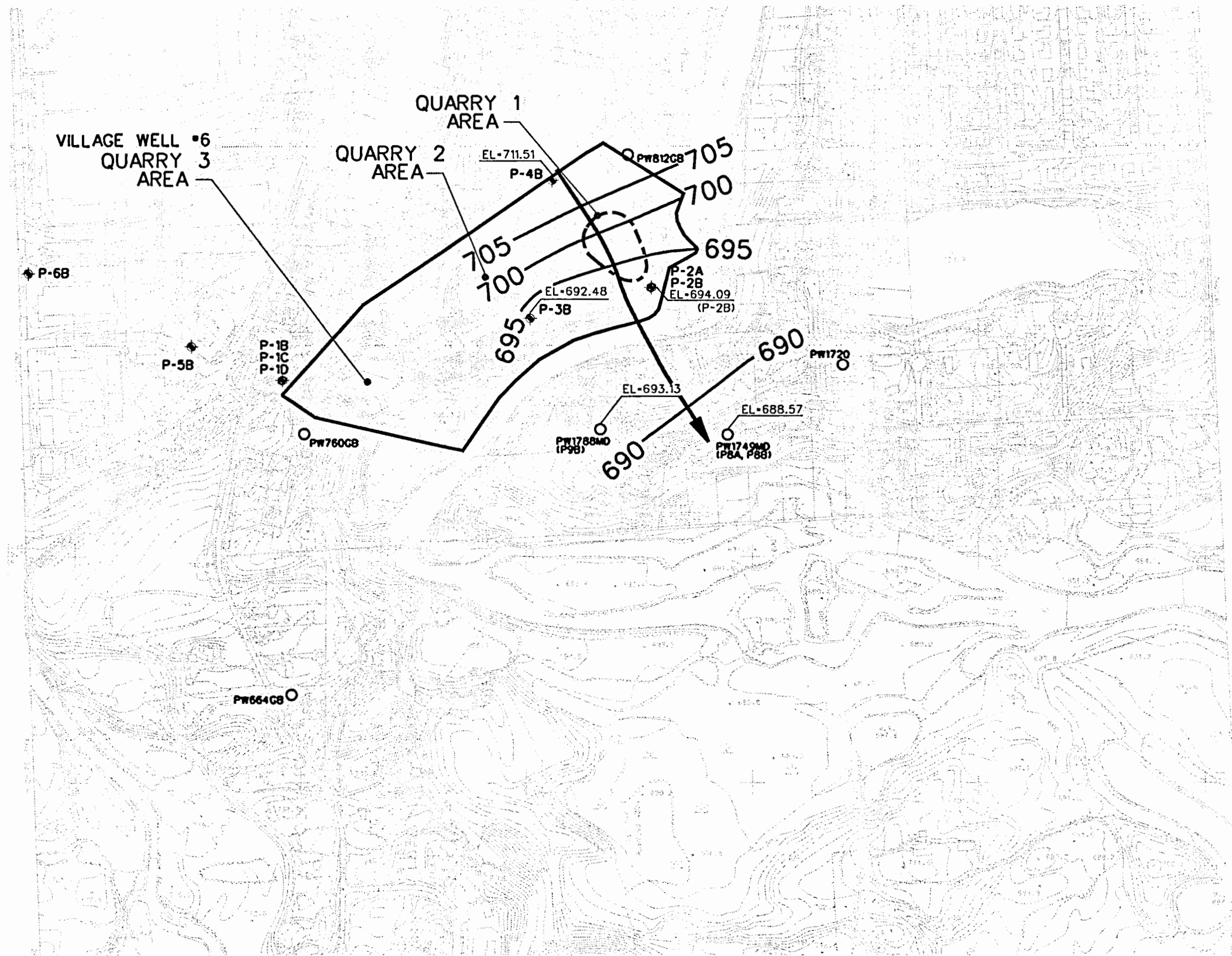
NOTES:

1. TOPOGRAPHIC BASE MAP AND PRIVATE WELL LOCATIONS COMPILED FROM WISCONSIN DEPARTMENT OF NATURAL RESOURCES.
2. HORIZONTAL DATUM SYSTEM BASED ON THE STATE PLANE COORDINATE SYSTEM.
3. ELEVATIONS ARE USGS MEAN SEA LEVEL, DATUM BASED ON GROUNDWATER LEVELS MEASURED ON SEPTEMBER 12, 2000.



REVISIONS: 02 11/12/01 11/12/01 11/12/01 11/12/01 11/12/01 11/12/01 11/12/01 11/12/01 11/12/01 11/12/01  
 DATE: Thu Nov 1 09:37:41 2001  
 DGN: \\shbs02\data\work\graffon01\cadd\2001\gw0900.dgn

VILLAGE WELL #2



EXPLANATION

- LIME KILN PARK PROPERTY BOUNDARY
- ESTIMATED LIMITS OF WASTE (GEOPHYSICS AND GEOPROBE)
- 700 GROUNDWATER CONTOURS (5 FOOT INTERVAL)
- GROUNDWATER FLOW DIRECTION
- EL-694.09 (P-2B) LEACHATE WELL NEST WITH PIEZOMETRIC ELEVATION. DESIGNATED WELL IN PARENTHESES
- EL-711.51 P-4B PIEZOMETER WITH PIEZOMETRIC ELEVATION
- EL-688.57 PW1749MD PRIVATE WELL WITH PIEZOMETRIC ELEVATION

NOTES:

1. TOPOGRAPHIC BASE MAP AND PRIVATE WELL LOCATIONS COMPILED FROM WISCONSIN DEPARTMENT OF NATURAL RESOURCES.
2. HORIZONTAL DATUM SYSTEM BASED ON THE STATE PLANE COORDINATE SYSTEM.
3. ELEVATIONS ARE USGS MEAN SEA LEVEL, DATUM BASED ON GROUNDWATER LEVELS MEASURED ON DECEMBER 15, 2000.

EARTH TECH

**FIGURE 5**  
PIEZOMETRIC CONTOUR MAP-  
DECEMBER 2000  
2000 ANNUAL REPORT  
VILLAGE OF GRAFTON  
GRAFTON, WISCONSIN

NOV 2001 30250

DATE - Thu Nov 1 09:37:27 2001  
 DGN - \\shbs02\data\work\grftm01\cadd\2001\gw1200.dgn  
 prf - \\shbs02\data\work\grftm01\cadd\2001\gw1200.dgn  
 DATE - 11/1/2001 11:14:02 AM  
 DGN - \\shbs02\data\work\grftm01\cadd\2001\gw1200.dgn



### 3.2.1 Monitoring Plan

Groundwater monitoring wells are shown on Figure 1, and the 2000 monitoring plan is listed in Table 1. Groundwater results are summarized in Table 2. Compounds that were detected in monitoring plan wells are listed, and compounds that exceed the Preventive Action Limit (PAL) or the Enforcement Standard (ES) at one or more wells in the monitoring plan are marked accordingly. A complete list of detects is included in Appendix D, and an electronic printout of 2000 results is also included in the WDNR electronic format in Appendix D.

Compounds detected in monitoring plan wells were analyzed using the WDNR Remediation and Redevelopment Mann-Kendall Statistical software, and printouts of these analyses are included in Appendix E. The results of this analysis are described in the following sections and are organized like the monitoring plan. Trend charts are provided for trichloroethene (TCE) and vinyl chloride, the two most commonly detected parameters. Groundwater samples critical to the natural attenuation evaluation are summarized in Section 3.2.2, beginning at upgradient well P4B and working toward the downgradient well P7B. Downgradient private and side gradient protection well results are summarized in Section 3.2.3.

### 3.2.2 Monitoring List A - Natural Attenuation Wells

#### Upgradient Well P-4B

Three chlorinated compounds were detected at P4B during 2000. Cis-1,2-dichloroethene (DCE) was consistently detected below the PAL. TCE was consistently detected above the PAL and exceeded the ES in September. Vinyl chloride was detected during the last three monitoring events, above the ES each time. Nitrogen was also detected during January and June events, and was above the PAL in each event.

The presence of these compounds in the upgradient well suggests that there are groundwater constituents flowing into the site from upgradient sources. The steep groundwater gradient toward the site in the vicinity of the upgradient well makes it unlikely that the landfill is contributing to the concentrations detected at P-4B.

Data trends for well P4B are shown on Figure 6, and Mann-Kendall Statistical trend analyses are located in Appendix E. TCE and cis-1,2-DCE have stable trends according to the Mann-Kendall test. Vinyl chloride has an increasing trend, and that is shown in Figure 6. Vinyl chloride has been detected at the upgradient well only since June of 2000. Other compounds detected at P4B were either inconsistently detected or were detected at levels that are very low or unreliable for trend analysis.

#### Leachate Wells LH1 and LH2

Eight VOCs have been consistently detected at LH1 and LH2, which are located within the landfill waste. Several other VOCs have been detected, though not consistently each sample event, as listed in Appendix E. Of these compounds, 1,1-dichloroethane (DCA), cis-1,2-DCE, tetrachloroethene (PCE), TCE, and vinyl chloride are consistently detected above the PAL or ES. 1,1-DCA and trans-1,2-DCE are detected consistently below regulatory limits. Other VOCs are detected inconsistently, and rarely above the PAL, with the exception of chloride, which was detected several times above the ES.

Compound concentrations at LH1 within the PCE/TCE and 1,1,1-TCA breakdown pathways are either stable or decreasing. Figure 6 shows the decreasing concentration of TCE and stable level of vinyl chloride that are calculated by the Mann-Kendall analysis in Appendix E. Breakdown products from both pathways are present at LH1, including final end products chloroethane and ethane. At LH2, the remediation process may be at an earlier stage, with decreasing levels of parent products PCE and TCE,

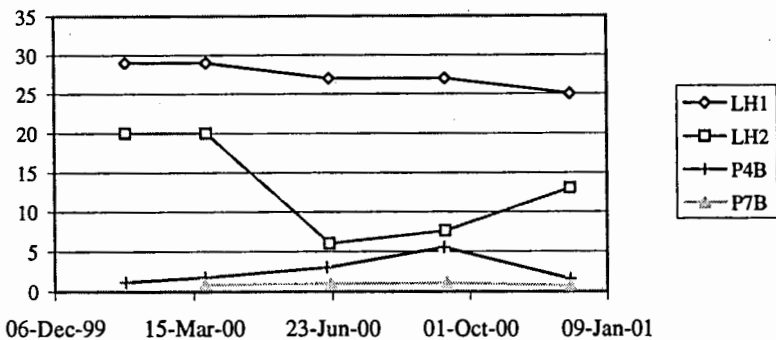


**TABLE 2**

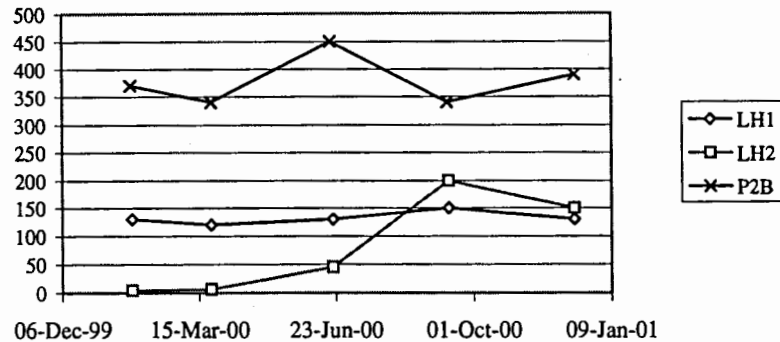
**DETECTED VOLATILE ORGANICS AND NR 140 PUBLIC HEALTH EXCEEDANCES  
 JANUARY 2000 TO DECEMBER 2000  
 VILLAGE OF GRAFTON**

Detected Compounds <sup>1</sup>	Exceeded ES <sup>2</sup>	Exceeded PAL <sup>2</sup>
1,1,1-Trichloroethane		
1,1,2-Trichlorotrifluoroethane		
1,1-Dichloroethane		
1,1-Dichloroethene		LH1 <sup>5</sup> , LH2 <sup>3</sup> , P2B <sup>5</sup> , P8A <sup>4</sup> , P8B <sup>5</sup>
Chloride	LH2 <sup>5</sup> , P2A <sup>5</sup>	LH1 <sup>5</sup>
Chloroethane		
cis-1,2-Dichloroethene	LH2 <sup>3</sup> , P2B <sup>5</sup> , P8A <sup>3</sup> , P8B <sup>3</sup>	LH1 <sup>5</sup> , P2A <sup>5</sup>
Ethane		
Ethene		
Methane		
Methylene chloride		LH1 <sup>5</sup> , LH2 <sup>5</sup> , P9B <sup>5</sup>
Nitrogen, nitrate		P3B <sup>5</sup> , P4B <sup>5</sup>
Tetrachloroethene	LH1 <sup>5</sup>	LH2 <sup>5</sup> , P3B <sup>5</sup> , P8A <sup>5</sup>
trans-1,2-Dichloroethene		P2B <sup>3</sup>
Trichloroethene	LH1 <sup>4</sup> , LH2 <sup>5</sup> , P2A <sup>5</sup> , P2B <sup>5</sup> , P3B <sup>3</sup> , P4B <sup>5</sup> , P8A <sup>3</sup> , P8B <sup>3</sup>	P7B <sup>5</sup> , P9B <sup>3</sup>
Vinyl chloride	LH1 <sup>5</sup> , LH2 <sup>3</sup> , P2A <sup>3</sup> , P2B <sup>5</sup> , P4B <sup>3</sup> , P7B <sup>5</sup> , P8A <sup>4</sup> , P8B <sup>3</sup> , P9B <sup>5</sup>	
<b>NOTES:</b>		
1	Volatile organic compounds that were detected in groundwater monitoring wells during the period.	
2	Denotes compounds that exceeded standards at the listed wells.	
3	Rising trend for the compound at the denoted well.	
4	Falling trend for the compound at the denoted well.	
5	Stable or no significant trend for the compound at the denoted well.	

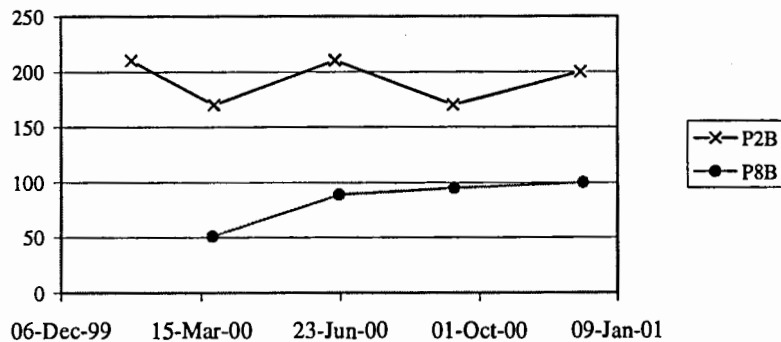
TCE - Concentration vs. Time



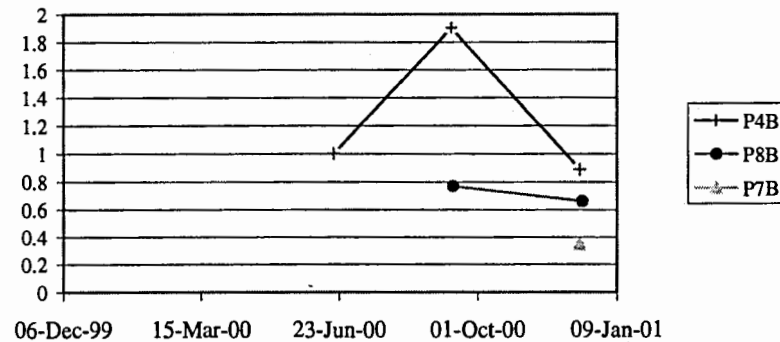
Vinyl Chloride - Concentration vs. Time



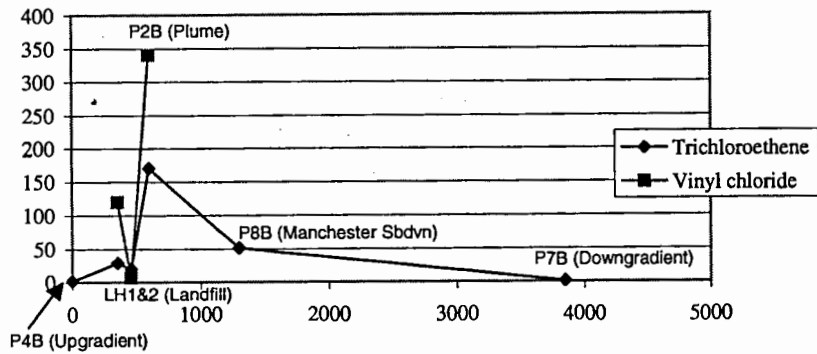
TCE - Concentration vs. Time



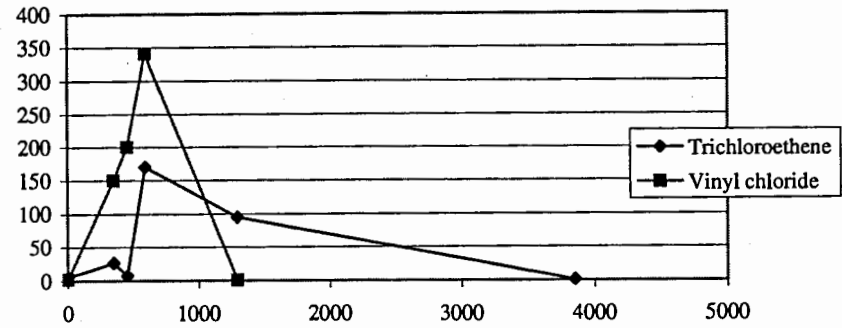
Vinyl Chloride - Concentration vs. Time



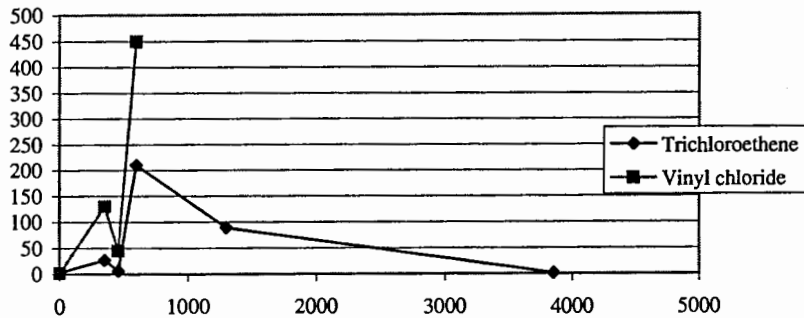
**Concentration vs. Distance - March**



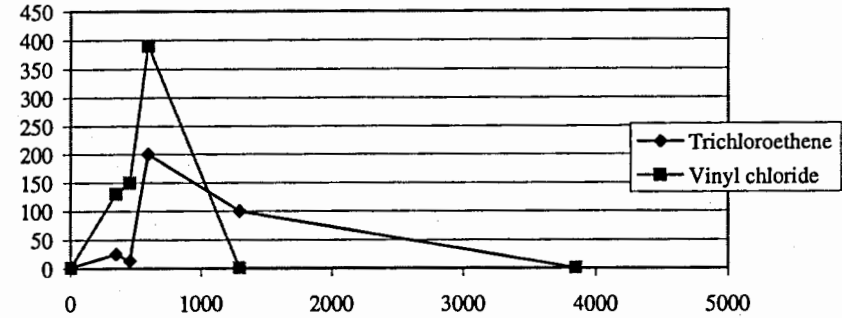
**Concentration vs. Distance - September**



**Concentration vs. Distance - June**



**Concentration vs. Distance - December**



and increasing levels of cis-1,2-DCE and vinyl chloride. The Mann-Kendall analysis is depicted graphically on Figure 6 for TCE and vinyl chloride. Vinyl chloride concentrations were significantly higher in the last two monitoring events, which corresponded with marked decreases of 1,1-DCA, 1,1-DCE, and trans-1,2-DCE, which are at relatively low to non-detectable levels. The presence of these compounds suggests that natural attenuation is occurring.

### Downgradient Wells P2A and P2B

Well nest P2A/P2B is located downgradient of the landfill within 50 feet of the waste limit. VOCs in both the TCE and 1,1,1-trichloroethene pathways have been detected at P2A and P2B. P2B concentrations are typically higher than at P2A, which is consistent with the measured downward gradient. In comparison to other wells in the monitoring program, the compounds associated with the landfill are detected at the highest concentrations at P2B.

At P2A, TCE and vinyl chloride are consistently detected above the ES, while chloride is consistently detected above the PAL. At P2B, cis-1,2-dichloroethene, TCE, and vinyl chloride are consistently detected above the ES, and other VOCs are inconsistently above the regulatory standards. 1,1,1-TCA, 1,1-DCA, and trans-1,2-dichloroethene are consistently detected at P2B and are typically below regulatory standards.

Trend analysis within P2A shows that only vinyl chloride has an increasing trend. All other compounds have stable trends or display no trend, with the exception of 1,1-TCA, which has an unstable trend. The unstable trend for 1,1,1-TCA is likely due to the low concentrations detected at the well.

At well P2B, trend analysis shows that all but two compounds have stable trends. 1,1,1-TCA has a decreasing trend, while its direct breakdown product trans-1,2-dichloroethene has an increasing trend, which suggests that natural attenuation is occurring.

### Downgradient Wells P8A and P8B

Well nest P8A/P8B is located downgradient of P2B at 1749 Manchester Drive. VOCs in both the TCE and 1,1,1-TCE pathways have been detected at P8A and P8B. Compound concentrations are typically lower at P8B than at P8A. TCE and cis-1,2-DCE have similar concentrations at both wells.

At P8A, seven chlorinated VOCs are consistently detected. Of these, 1,1-DCE is consistently above the PAL, and cis-1,2-DCE, TCE, and vinyl chloride are detected above the ES. No other compounds were detected above regulatory limits. Similarly at P8B, cis-1,2-DCE and TCE are detected consistently above the ES. Vinyl chloride is detected less frequently, though above the ES. 1,1-DCA is also detected at slightly lower levels, and less frequently.

Trends as measured by the Mann-Kendall test show increasing trends of several compounds at this location. TCE and cis-1,2-DCE have increasing trends at both wells. The increase of TCE is from upgradient sources such as the landfill, while increasing levels of cis-1,2-DCE is evidence that TCE is breaking down through the attenuation processes. There is an increase in background TCE concentrations, which contributes to the increase of TCE at this well, though background levels are not solely responsible for the increase. The increase in TCE concentrations may be natural fluctuation, or indicate changes in the plume. In either case, four rounds of data are not enough to evaluate the trend. The trend will be further evaluated at the end of eight rounds of groundwater monitoring. Vinyl chloride is decreasing at P8A, and while increasing at P8B, it is detected at low levels. TCE and vinyl chloride concentration trends are graphed on Figure 6. Trans-1,2-DCE, 1,1-DCE, and 1,1-DCA are present at low and unreliable levels at both wells, though these compounds are further evidence of TCE breakdown regardless of upward or downward trends.



### **Downgradient Well P7B**

Well P7B is located on the Watts property, downgradient of the plume. VOCs have not been consistently detected at this location. TCE has been consistently detected near background levels, slightly above the PAL. During the September and December sampling events, coincident with the higher levels of VOCs in upgradient well P4B, cis-1,2-dichloroethene and vinyl chloride have been inconsistently detected. Vinyl chloride was detected above the ES, though the detect was qualified since it was below the limit of detection (LOD). None of these compounds has an increasing trend, and all of them are considered stable according to the Mann-Kendall test. These trends are further demonstrated on Figure 6, where TCE shows a stable trend and vinyl chloride is inconsistently detected.

### **3.2.3 Monitoring List B - Private and Sentinel Wells**

#### **Sidegradient Wells P3B and P9B, and Private Well 717 Heather Court**

Wells P3B and P9B are located west and sidegradient of the Lime Kiln Plume. PCE and TCE are the only compounds consistently detected at P3B. TCE is the only compound consistently detected at P9B other than Freon 113, which is not found in the Lime Kiln Landfill plume.

At P3B, PCE is consistently detected slightly above the PAL, and TCE is consistently detected above the ES. While these compounds were detected in the Lime Kiln Landfill, concentration of these compounds at P3B are believed to be from sources unrelated to the landfill. The compounds were detected at wells directly upgradient of P3B during the investigation report, at similar concentrations. Both compounds have very slight upward concentrations.

At P9B, TCE is consistently detected above the PAL. Other compounds have been inconsistent at P9B. While TCE has a slight increasing trend, it was shown in the investigation report that P9B is affected by sources other than the Lime Kiln Landfill. The TCE increase at this well is not likely due to the Lime Kiln Landfill.

#### **Downgradient Private Wells**

Downgradient private wells are monitored at four locations by monitoring for potential plume changes. At the five wells listed in Table 1, methylene chloride and toluene were detected during one sample event and were attributed to lab contamination. The only other compound detected is chloroform, at the Watts residence (PW1716LR). Chloroform has been inconsistently detected, and it has not been detected above the PAL. Chloroform is not attributed to the Lime Kiln Landfill.

### **3.3 LIME KILN LANDFILL PLUME TRENDS**

Concentration versus distance graphs were constructed according to WDNR natural attenuation guidance (March, 1997). TCE and vinyl chloride concentrations at natural attenuation wells were plotted for each quarter on Figure 7. These compounds were selected because they are the most commonly detected compounds within the plume, and because they represent typical plume characteristics.

Upon analysis of the four graphs shown on Figure 7, the general concentration distribution of vinyl chloride and TCE appears stable, which is expected for a plume that has been present for over 30 years. The shape and magnitude of each line graph is similar throughout the four events, with slight variations.

In comparison to other wells in the monitoring program, the compounds associated with the landfill are detected at the highest concentrations at P2B, slightly downgradient of the landfill. This is expected

because no new waste has been disposed at the landfill in the last 30 years, and the attenuation of contaminants is occurring at the landfill as evidenced by the presence of breakdown products within landfill wells.

Based on the plots in Figure 7, TCE concentrations were very stable throughout the four sampling events. Vinyl chloride is detected at low levels in downgradient well P7B during the final two events of 2000, where it had not been detected before. These detects are coincident with higher levels throughout the system, which may be attributed to seasonal variation in heads or precipitation. The low level concentrations are all qualified because they are below the LOD. Despite the source of parent products and an environment conducive to attenuation, vinyl chloride concentrations appear relatively stable with very slight fluctuations during the monitoring period. The consistency of the TCE and vinyl chloride distribution indicates the plume continues to be stable. Demonstration of this stability is a requirement for long-term implementation of natural attenuation.

Dissolved oxygen (DO) and oxidation-reduction potential (ORP) measurements were compiled in Table 3 for the monitoring events in 2000. Values were organized by date and by distance from the landfill in order to evaluate conditions near the landfill. Each of these parameters can be useful indicators of biodegradation. Naturally occurring microorganisms prefer to use DO, when available, as an electron acceptor in aerobic biodegradation (DO >1 ppm). Typically, the inverse relationship between high contaminant concentrations and low DO concentrations indicate that anaerobic biodegradation is occurring within the impacted groundwater plume. Groundwater ORP is a measure of the relative tendency of a solution to donate or accept electrons. ORP can strongly depend on biodegradation processes and can strongly influence such processes. Measuring ORP levels within a plume can identify zones where intrinsic bioremediation (especially anaerobic processes) is lowering ORP.

In general, DO is higher at up and downgradient wells, with the lowest levels at LH1 and LH2. ORP levels are negative within the landfill, and low at wells P2B and P8B. ORP is consistently higher at upgradient well P4B and downgradient well P7B. Both of these secondary indicators demonstrate the expected relationship for aerobic conditions and corresponding degradation, which is a strong indication that natural attenuation is occurring in groundwater at the site. ★

Wells P2B?  
MW 7B?

**TABLE 3**

**DISSOLVED OXYGEN AND REDUCTION-OXIDATION POTENTIAL MEASUREMENTS  
 SEPTEMBER 2001  
 VILLAGE OF GRAFTON**

**Dissolved Oxygen (ppm)**

Well <sup>1</sup>	P4B	LH1	LH2	P2A	P2B	P8B	P7B
Date							
March 23, 2000	2.2	1.82	NA	6.29	4.21	4.7	7.42
June 19, 2000	3.09	0.91	1.48	0.99	1.47	0.7	2.46
September 12, 2000	2.12	0.77	1.19	1	2.03	0.54	1.67
December 13, 2000	2.29	0.9	1.05	1.03	2.03	0.76	2.08

**Reduction-Oxidation Potential (mV)**

Well <sup>1</sup>	P4B	LH1	LH2	P2A	P2B	P8B	P7B
Date							
March 23, 2000	169	-143	NA	534	76	150	161
June 19, 2000	223	-148	-84	211	213	172	197
September 12, 2000	80	-136	-77	-37	60	77	137
December 13, 2000	154	-95	-72	-29	52	80	163

**NOTES:**

NA = Measurement was not collected.

<sup>1</sup> = Wells are arranged from upgradient (P4B) to farthest downgradient (P7B).

#### 4.0 NATURAL ATTENUATION SUMMARY

The information provides significant evidence that natural attenuation is actively remediating the constituents in the Lime Kiln Landfill groundwater plume. The data supports two lines of evidence that natural attenuation is occurring. Primary: Concentrations of chlorinated solvents decrease with distance from the site, and the concentrations are decreasing at individual wells in the landfill over time. Secondary: The daughter products of chlorinated solvents are present; most significantly, the cis-1,2-DCE isomer is predominant, and the breakdown products vinyl chloride, chloroethane, chloride, ethene, and ethane are also present. The predominance of the cis- isomer is a strong indicator of biological degradation of TCE, the main parent product detected at the landfill. Intermediate breakdown products such as 1,1-DCE and 1,1-DCA are present and have decreasing trends at several locations. Additionally, DO and ORP tend to decrease in concentration within and near the landfill, indicating that conditions are appropriate for reductive dechlorination of chlorinated solvents.



## 5.0 CONCLUSIONS

The following conclusions resulted from groundwater monitoring and analysis at the Lime Kiln Landfill.

- Remediation is occurring through natural attenuation of parent VOC products as evidenced by the presence of breakdown by-products, and the levels of natural attenuation indicators in groundwater such dissolved oxygen, ORP, chloride, and ethanes.
- The groundwater plume from the landfill is stable or receding, based on the length of time since the disposal of waste, the volume of the landfill, and natural attenuation processes.

## 6.0 RECOMMENDATIONS

The following recommendations are made for the future monitoring and remedial action evaluation of the Lime Kiln Park Landfill.

- The monitoring plan, attached as Appendix F, should be continued in 2001 for four more sample events.
- The following modifications are recommended to the monitoring plan which is included in Appendix F:
  - RCRA metals and alkalinity should be removed, as they were not providing useful information for the natural attenuation study.
  - Sidegradient wells P-3B and P-9B should be moved to list B for semi-annual monitoring since they are not within the plume and are contaminated mainly with compounds that are from upgradient sources. Semi-annual monitoring will provide the same level of protection when evaluated as quarterly monitoring at these wells.
- A remedial alternatives evaluation according to NR 722 will be completed as required on alternatives identified to be reasonably likely to be feasible at the site, after the natural attenuation evaluation is completed in December 2001. The NR 722 report will evaluate the economic and technical feasibility of remedial options, and will determine what further actions are required for site remediation.

**APPENDIX A**

**AFFECTED GROUNDWATER AREAS MAP**







**APPENDIX B**

**FINAL INVESTIGATION REPORT CORRESPONDENCE**

January 28, 2000

Mr. John Feeney  
Southeast Region Annex  
4041 North Richards Street  
P.O. Box 12436  
Milwaukee, WI 53212-0436

**Subject: Village of Grafton, Lime Kiln Park  
Response to Comments and Year 2000 Scope  
Earth Tech Project No. 30250**

Dear Mr. Feeney:

This letter provides responses to your comments contained in a June 8, 1999, letter from WDNR to the Village of Grafton on the Lime Kiln Park Landfill Investigation and Preliminary Remedial Action Identification (Investigation Report) submitted to the Department by Earth Tech in January 1999. These responses address completion of additional fieldwork to further define the extent of the groundwater plume's downgradient edge, and monitoring to confirm the occurrence of natural attenuation.

Telephone

920.458.8711

Facsimile

920.458.0337

The comments are answered in the order of the bullets contained in your June 8 letter. Included is a description of the methodology for additional fieldwork. These responses also consider discussions between the Department, Village of Grafton, and Earth Tech at the August 31, 1999, meeting.

#### **Bullet Item No. 1 – Landfill Cap**

**Comment:** Determine if the current landfill cap is adequate and if it complies with the closure requirements of s. NR 500, Wis. Adm. Code.

**Response:** Enclosed with this letter are data and calculations that demonstrate the adequacy of the current landfill cap to meet the intent of NR 500 requirements. Included are boring logs and calculations that show the thickness and infiltration rate of the landfill cap. It is Earth Tech's opinion that the cap is adequate and meets closure requirements of NR 500.

The landfill cap effectively minimizes rainfall infiltration through the landfill and prevents direct contact with the waste by park-users. These conclusions are supported by boring logs which document the thickness of the existing cover, the well-maintained condition of the cover, and infiltration calculations indicating infiltration accounts for less than 15 percent of the water moving through the landfill. The volume of infiltration is small compared to the volume of groundwater that flows through the waste because approximately 7 feet of waste are below the water table. Boring logs also show that the cap thickness is adequate to prevent



A tyco INTERNATIONAL LTD. COMPANY



Mr. John Feeney  
January 28, 2000  
Page 2

direct contact with waste to park-users. Therefore, no changes to the landfill cap are recommended.

Eighteen boreholes were advanced within and adjacent to the landfill to evaluate the extent of waste and the landfill cover characteristics. Six of the 18 borings did not encounter waste. Boring logs are included in Attachment A. The boring logs show that the clay cover ranges from 3 to 6.5 feet in thickness, and that an average of 1/2-foot of topsoil overlies the clay. The topsoil and clay thicknesses meet current NR 500 standards.

A cover inspection completed in February 1998 observed no visible cracks or breaks, and there was no relevant evidence that there had been stressed vegetation. Vegetation atop the cover is in excellent condition. The cover is sloped to the south to allow the majority of precipitation to run off rather than infiltrate. The infiltration through the cover is low because of the high cover slope and low permeability materials used in cover construction. If damage occurs to the cover, it is repaired and maintained by the Village of Grafton.

Cover infiltration was estimated using the HELP Model and assuming the minimum and average thickness of cover material at the landfill. Approximately 17,200 ft<sup>3</sup> per year of precipitation infiltrates the landfill, assuming a minimum cover thickness of 3.5 feet, and approximately 16,300 ft<sup>3</sup> per year infiltrates the landfill at the average thickness of 5 feet per year. Assumptions about climate and the hydraulic conductivity of the cover were made for HELP model purposes. An average climate year for Milwaukee was used for both simulations. The cover hydraulic conductivity was assumed to be  $1 \times 10^{-6}$  cm/sec, a conservative (high) estimate. HELP model simulations are provided in Attachment B.

The bottom 7 feet of waste are below the water table. Based on groundwater flow velocity calculated using Darcy's Law, approximately 88,900 ft<sup>3</sup> per year of groundwater flows through the waste. Infiltration through the cover comprises approximately 15 percent of the water (groundwater and infiltration) that flows through waste. Infiltration through the landfill cover is thus small compared to the amount of groundwater that flows through the waste material. Calculation sheets are included in Attachment C.

#### **Bullet Item No. 2 – Additional Site Wells**

**Comment:** Install a minimum of two additional bedrock wells on the downgradient side of the east plume to fully determine the extent of contamination. An adequate monitoring well network is needed before the department will approve natural attenuation as a final remedial option. These wells should be deep enough to account for possible downward migration of the contaminant plume, and to show that contaminant concentrations are decreasing with

Mr. John Feeney  
January 28, 2000  
Page 3

depth or clean at depth. The wells should be nested, or set up for discreet sampling, at various depths to determine if downward contaminant migration is occurring.

**Response:** At the August 31, 1999, meeting, it was decided that one new well would be installed downgradient of the landfill. Monitoring well MW-7B will be placed south of the Milwaukee River on the Watts property. A map showing the proposed well location is enclosed. The well is downgradient of Lime Kiln Park in the anticipated direction of groundwater flow, and will investigate the downgradient extent of contaminant migration.

The MW-7B borehole will be drilled to the base of the Racine Dolomite, the dolomite formation that transmits the majority of groundwater in the shallow rock. The Racine Dolomite overlies the Waukesha Dolomite, which is a confining layer that separates the Racine Dolomite from deeper aquifers. The Waukesha Dolomite will not be penetrated. Groundwater samples will be collected from two intervals in the borehole to evaluate the vertical distribution of compounds in groundwater. A packer apparatus will be used to sample discrete layers of the stratigraphy. A well will be set at the level of the highest contaminant concentrations found in laboratory results, if volatile organic compounds (VOCs) are detected. Should no compounds associated with the landfill be detected, the well will be constructed at an elevation consistent with wells constructed on-site and will be used for future monitoring and protection of downgradient well owners.

A well will also be placed in existing private well PW1788, at the base of the Racine Dolomite, as recommended in the Investigation Report. This well is outside the western edge of the Lime Kiln Park Landfill plume and will monitor groundwater for potential changes to the plume in a western direction.

The well previously scheduled to be constructed in PW1720 will not be completed, as discussed in our August 31, 1999, meeting. The homeowner has requested that the private well be abandoned and that it not be used for future monitoring. The well, located east of the plume, was determined to be unnecessary since both it and PW717HC (also east of the plume) have never had detections.

#### **Bullet Item No. 3 - Well Nest at PW1749**

**Comment:** Private well PW1749 within the contaminant plume should also be set up for multi-depth discreet sampling for the purpose of monitoring possible downward migration of contaminants.

**Response:** A well will be placed in existing private well PW1749 to monitor groundwater concentrations within the plume as discussed in the monitoring plan contained in the

Mr. John Feeney  
January 28, 2000  
Page 4

Investigation Report. The well will be set at the base of the Racine Dolomite, the deepest elevation at which compounds were detected. A second well will be located in the Manchester Road right-of-way, at approximately 90 to 100 feet below ground surface, the depth of the highest compound concentrations measured during the field investigation. The nested wells will help monitor the downgradient vertical distribution of VOCs in groundwater.

**Bullet Item No. 4 – Need for Additional Monitoring Wells**

**Comment:** Additional monitoring wells could be required until the extent and degree of contamination is determined.

**Response:** The need for additional wells will be evaluated based upon the sampling results from the newly installed downgradient well, MW-7B. Well installation information and groundwater sample results from MW-7B do not contain compounds associated with the landfill and will be submitted in a letter report. This report will discuss the adequacy of the monitoring system to evaluate the nature and extent of contamination. This will include the need for and feasibility of additional wells.

**Bullet Item No. 5 – Determination of Natural Attenuation as a Remedial Option**

**Comment:** If results of additional investigation or sampling show that the contaminant plume is not stable or decreasing, natural attenuation will not be an acceptable remedial option, and a more aggressive remedy will be required.

**Response:** The site will be monitored as described in Table 13 of the Investigation Report and this letter to evaluate the effectiveness of natural attenuation processes that are occurring within the plume. An updated monitoring plan has been included with this letter. Data contained in the Investigation Report suggests that the plume is, at a minimum, stable based upon the amount of time the landfill has been present and the size of the plume. To date, no VOCs have been detected in private wells downgradient of the site along Lakefield Road. In addition, breakdown products such as TCE, vinyl chloride, cis- and trans-1,2-dichloroethane, methane, ethane, and ethene have been detected in groundwater samples, which suggests that natural attenuation is occurring. Should further investigation support that natural attenuation is occurring at the landfill, Earth Tech will request that natural attenuation be considered as the site remedy. If natural attenuation is not supported, a more aggressive remedy will need to be evaluated.



Mr. John Feeney  
January 28, 2000  
Page 5

**Bullet Item No. 6 – Natural Attenuation Monitoring Frequency**

**Comment:** Once the site has been fully characterized, groundwater monitoring to determine the feasibility of using natural attenuation as a remedy should be done on a quarterly basis for at least 2 years.

**Response:** Groundwater sampling required for evaluating the feasibility of natural attenuation will be collected on a quarterly basis as discussed at the August 31, 1999, meeting. Previous monitoring results will be used as part of the quarterly data needed. Wells at the site or within the plume (Table 13, List A) will be monitored quarterly, and private wells outside the plume (Table 13, List B) will be monitored semi-annually. The updated monitoring plan is included in Attachment D.

Should the investigation outlined above indicate that natural attenuation is a likely remedy for the site after eight rounds of sampling, a new monitoring program will be proposed. At that time, a recommendation to reduce the number of samples and sample frequency may be submitted.

Please contact me at (920) 451-2465 if you have any further comments on our approach. We have tentatively scheduled drilling during the week of February 7, 2000.

Very truly yours,

Earth Tech, Inc.

Joan E. Underwood, P.G., P.H.G.  
Project Manager

Enclosure: As Noted

c: Darrell Hofland – Village of Grafton  
Mark Gottlieb – Village of Grafton  
Charles Sweeney – Michael Best & Friedrich  
Paul Malloy – Houseman, Feind, Gallo, & Malloy

\\shb\12\data\WORK\grafton\admin\CORRESP\scope2100.doc



**ATTACHMENT A**

**BORING LOGS**



**ATTACHMENT B**  
**HELP MODEL SIMULATIONS**

CALCULATION SHEET

PAGE 1 OF 2  
PROJECT NO. 30250

CLIENT \_\_\_\_\_ SUBJECT HELP Model  
PROJECT Limekiln Landfill \_\_\_\_\_  
Village of Grafton, WI \_\_\_\_\_

Prepared By TCR Date 01/24/00  
Reviewed By \_\_\_\_\_ Date \_\_\_\_\_  
Approved By R/e Date 1/28/2000

Objective

This analysis consisted of preparing HELP Model runs to determine the amount of infiltration through the existing clay cover at the site at the end of 100 years. The results are then used to prepare the groundwater impact assessment.

Design Criteria and Assumptions

This analysis consisted of 6 HELP Model runs, with each run covering 10 years. Refer to the attached HELP Model output files (only years 51-60 are included with this memorandum). In general, the default soil parameters (porosity, field capacity, wilting point and hydraulic conductivity) were used/input into the program. However, values for the hydraulic conductivity for the barrier soil exist from field tests and this value was used instead of the default.

The thickness of cover varies at the site, therefore two cases were analyzed using the HELP Model. One case for the minimum thickness of clay cover, and one case for the average thickness of clay cover. The area of the site is 1.33 acres, this value was used in the HELP Model. The cross section of the landfill that was input into the HELP Model follows, along with whether default parameters or user specified parameters were used:

- a. topsoil and rooting zone material, 6 inches- HELP Model version 3.0 default soil number 9 was used.
- b. barrier soil layer, 24 inches- HELP Model version 3.0 default soil number 16 was used with a modified saturated hydraulic conductivity of  $1.0 \times 10^{-6}$  cm/sec.
- c. waste material, 288 inches- HELP Model version 3.0 default soil number 18 was used with a modified saturated hydraulic conductivity of  $1.0 \times 10^{-2}$  cm/sec.

The following depths were used for the minimum case;

- rooting zone material- 6 inches
- barrier soil- 24 inches
- waste material- 288 inches

The following depths were used for the average case;

- rooting zone material- 12 inches
- barrier soil- 52 inches
- waste material- 288 inches

For the first run, the initial moisture contents were set equal to the field capacity of the soil type. Then, the final water storage values from the first run were input as initial soil water contents for the second run. Likewise, each successive run used the final water storage values from the previous run as the initial soil water contents.

**CALCULATION SHEET**

PAGE 2 OF 2

PROJECT NO. 30250

CLIENT \_\_\_\_\_

SUBJECT HELP Model

Prepared By TCR Date 01/24/00

PROJECT Limekiln Landfill

Summary

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Village of Grafton, WI

\_\_\_\_\_

Approved By \_\_\_\_\_ Date \_\_\_\_\_

Calculations/Results

Results at the end of the 100-year modeling period for the minimum cover are as follows:

Average annual percolation through the cover (i.e., 24 inches of clay)	17208.8 cf/year
Average annual head on the cover	0.548 inches
Peak daily percolation through the cover (24 inches of clay)	205.28 cf/year
Peak daily average head on the cover	6.00 inches

Results at the end of the 100-year modeling period for the average cover are as follows:

Average annual percolation through the cover (i.e., 52 inches of clay)	16273.6 cf/year
Average annual head on the cover	0.940 inches
Peak daily percolation through the cover (52 inches of clay)	201.840 cf/year
Peak daily average head on the cover	11.912 inches

These results are shown on the attached pages of the HELP Model output files.

Minimum Case

```

*****
*****
**
**
**
HYDROLOGIC EVALUATION OF LANDFILL PERFORMANCE
HELP MODEL VERSION 3.07 (1 NOVEMBER 1997)
DEVELOPED BY ENVIRONMENTAL LABORATORY
USAE WATERWAYS EXPERIMENT STATION
FOR USEPA RISK REDUCTION ENGINEERING LABORATORY
**
**
*****
*****

```

```

PRECIPITATION DATA FILE: d:\grifton\min4.D4
TEMPERATURE DATA FILE: d:\grifton\min7.D7
SOLAR RADIATION DATA FILE: d:\grifton\min13.D13
EVAPOTRANSPIRATION DATA: d:\grifton\MIN11.D11
SOIL AND DESIGN DATA FILE: d:\grifton\MIN51-60.D10
OUTPUT DATA FILE: d:\grifton\MIN51-60.OUT

```

TIME: 8:49 DATE: 1/24/2000

```

*****
TITLE: Limekiln Park Landfill, Village of Grafton, Wisconsin
*****

```

NOTE: INITIAL MOISTURE CONTENT OF THE LAYERS AND SNOW WATER WERE SPECIFIED BY THE USER.

LAYER 1  
-----

```

TYPE 1 - VERTICAL PERCOLATION LAYER
MATERIAL TEXTURE NUMBER 9
THICKNESS = 6.00 INCHES
POROSITY = 0.5010 VOL/VOL
FIELD CAPACITY = 0.2840 VOL/VOL
WILTING POINT = 0.1350 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.2280 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.190000006000E-03 CM/SEC
NOTE: SATURATED HYDRAULIC CONDUCTIVITY IS MULTIPLIED BY 3.00
FOR ROOT CHANNELS IN TOP HALF OF EVAPORATIVE ZONE.

```

LAYER 2

-----

TYPE 3 - BARRIER SOIL LINER

MATERIAL TEXTURE NUMBER 0

THICKNESS	=	24.00	INCHES
POROSITY	=	0.4270	VOL/VOL
FIELD CAPACITY	=	0.4180	VOL/VOL
WILTING POINT	=	0.3670	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.4270	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.99999997000E-06	CM/SEC

LAYER 3

-----

TYPE 1 - VERTICAL PERCOLATION LAYER

MATERIAL TEXTURE NUMBER 48

THICKNESS	=	288.00	INCHES
POROSITY	=	0.6710	VOL/VOL
FIELD CAPACITY	=	0.2920	VOL/VOL
WILTING POINT	=	0.0770	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.2920	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.100000005000E-02	CM/SEC

GENERAL DESIGN AND EVAPORATIVE ZONE DATA

-----

NOTE: SCS RUNOFF CURVE NUMBER WAS USER-SPECIFIED.

SCS RUNOFF CURVE NUMBER	=	70.00	
FRACTION OF AREA ALLOWING RUNOFF	=	100.0	PERCENT
AREA PROJECTED ON HORIZONTAL PLANE	=	1.330	ACRES
EVAPORATIVE ZONE DEPTH	=	6.0	INCHES
INITIAL WATER IN EVAPORATIVE ZONE	=	1.368	INCHES
UPPER LIMIT OF EVAPORATIVE STORAGE	=	3.006	INCHES
LOWER LIMIT OF EVAPORATIVE STORAGE	=	0.810	INCHES
INITIAL SNOW WATER	=	1.553	INCHES
INITIAL WATER IN LAYER MATERIALS	=	95.712	INCHES
TOTAL INITIAL WATER	=	97.265	INCHES
TOTAL SUBSURFACE INFLOW	=	0.00	INCHES/YEAR

EVAPOTRANSPIRATION AND WEATHER DATA

-----

NOTE: EVAPOTRANSPIRATION DATA WAS OBTAINED FROM  
MILWAUKEE WISCONSIN

STATION LATITUDE	=	42.57	DEGREES
MAXIMUM LEAF AREA INDEX	=	2.00	



START OF GROWING SEASON (JULIAN DATE) = 130  
 END OF GROWING SEASON (JULIAN DATE) = 283  
 EVAPORATIVE ZONE DEPTH = 6.0 INCHES  
 AVERAGE ANNUAL WIND SPEED = 11.60 MPH  
 AVERAGE 1ST QUARTER RELATIVE HUMIDITY = 72.00 %  
 AVERAGE 2ND QUARTER RELATIVE HUMIDITY = 70.00 %  
 AVERAGE 3RD QUARTER RELATIVE HUMIDITY = 74.00 %  
 AVERAGE 4TH QUARTER RELATIVE HUMIDITY = 75.00 %

NOTE: PRECIPITATION DATA WAS SYNTHETICALLY GENERATED USING  
 COEFFICIENTS FOR MILWAUKEE WISCONSIN

NORMAL MEAN MONTHLY PRECIPITATION (INCHES)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
1.64	1.33	2.58	3.37	2.66	3.59
3.54	3.09	2.88	2.25	1.98	2.03

NOTE: TEMPERATURE DATA WAS SYNTHETICALLY GENERATED USING  
 COEFFICIENTS FOR MILWAUKEE WISCONSIN

NORMAL MEAN MONTHLY TEMPERATURE (DEGREES FAHRENHEIT)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
18.70	23.00	32.10	44.60	54.80	64.90
70.50	69.30	61.90	50.90	37.30	25.10

NOTE: SOLAR RADIATION DATA WAS SYNTHETICALLY GENERATED USING  
 COEFFICIENTS FOR MILWAUKEE WISCONSIN  
 AND STATION LATITUDE = 42.57 DEGREES

\*\*\*\*\*

ANNUAL TOTALS FOR YEAR 1

	INCHES	CU. FEET	PERCENT
PRECIPITATION	30.71	148264.812	100.00
RUNOFF	5.637	27213.621	18.35
EVAPOTRANSPIRATION	21.260	102641.352	69.23
PERC./LEAKAGE THROUGH LAYER 2	4.059290	19597.846	13.22
AVG. HEAD ON TOP OF LAYER 2	0.6542		
PERC./LEAKAGE THROUGH LAYER 3	4.073891	19668.340	13.27

CHANGE IN WATER STORAGE	-0.261	-1258.462	-0.85
SOIL WATER AT START OF YEAR	95.712	462087.531	
SOIL WATER AT END OF YEAR	97.004	468326.781	
SNOW WATER AT START OF YEAR	1.553	7497.729	5.06
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.032	0.00

\*\*\*\*\*

\*\*\*\*\*

ANNUAL TOTALS FOR YEAR 2

	INCHES	CU. FEET	PERCENT
PRECIPITATION	38.08	183846.469	100.00
RUNOFF	10.380	50115.676	27.26
EVAPOTRANSPIRATION	21.513	103860.961	56.49
PERC./LEAKAGE THROUGH LAYER 2	4.540327	21920.246	11.92
AVG. HEAD ON TOP OF LAYER 2	0.8963		
PERC./LEAKAGE THROUGH LAYER 3	4.541174	21924.336	11.93
CHANGE IN WATER STORAGE	1.646	7945.489	4.32
SOIL WATER AT START OF YEAR	97.004	468326.781	
SOIL WATER AT END OF YEAR	96.891	467780.656	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	1.759	8491.626	4.62
ANNUAL WATER BUDGET BALANCE	0.0000	0.002	0.00

\*\*\*\*\*

\*\*\*\*\*

ANNUAL TOTALS FOR YEAR 3

	INCHES	CU. FEET	PERCENT
PRECIPITATION	34.55	166804.000	100.00

RUNOFF	8.009	38666.016	23.18
EVAPOTRANSPIRATION	24.295	117294.305	70.32
PERC./LEAKAGE THROUGH LAYER 2	3.864268	18656.301	11.18
AVG. HEAD ON TOP OF LAYER 2	0.6530		
PERC./LEAKAGE THROUGH LAYER 3	3.862827	18649.344	11.18
CHANGE IN WATER STORAGE	-1.617	-7805.691	-4.68
SOIL WATER AT START OF YEAR	96.891	467780.656	
SOIL WATER AT END OF YEAR	96.331	465075.500	
SNOW WATER AT START OF YEAR	1.759	8491.626	5.09
SNOW WATER AT END OF YEAR	0.702	3391.094	2.03
ANNUAL WATER BUDGET BALANCE	0.0000	0.029	0.00

\*\*\*\*\*

\*\*\*\*\*

ANNUAL TOTALS FOR YEAR 4

	INCHES	CU. FEET	PERCENT
	-----	-----	-----
PRECIPITATION	26.83	129532.617	100.00
RUNOFF	6.911	33366.336	25.76
EVAPOTRANSPIRATION	18.427	88963.180	68.68
PERC./LEAKAGE THROUGH LAYER 2	1.592617	7688.998	5.94
AVG. HEAD ON TOP OF LAYER 2	0.1951		
PERC./LEAKAGE THROUGH LAYER 3	1.586109	7657.574	5.91
CHANGE IN WATER STORAGE	-0.094	-454.514	-0.35
SOIL WATER AT START OF YEAR	96.331	465075.500	
SOIL WATER AT END OF YEAR	96.731	467007.156	
SNOW WATER AT START OF YEAR	0.702	3391.094	2.62
SNOW WATER AT END OF YEAR	0.208	1004.934	0.78
ANNUAL WATER BUDGET BALANCE	0.0000	0.038	0.00

\*\*\*\*\*

\*\*\*\*\*

ANNUAL TOTALS FOR YEAR 5

	INCHES	CU. FEET	PERCENT
PRECIPITATION	34.65	167286.703	100.00
RUNOFF	7.984	38543.770	23.04
EVAPOTRANSPIRATION	24.187	116773.414	69.80
PERC./LEAKAGE THROUGH LAYER 2	3.441912	16617.209	9.93
AVG. HEAD ON TOP OF LAYER 2	0.4077		
PERC./LEAKAGE THROUGH LAYER 3	3.446581	16639.748	9.95
CHANGE IN WATER STORAGE	-0.967	-4670.207	-2.79
SOIL WATER AT START OF YEAR	96.731	467007.156	
SOIL WATER AT END OF YEAR	95.972	463341.875	
SNOW WATER AT START OF YEAR	0.208	1004.934	0.60
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.016	0.00

\*\*\*\*\*

\*\*\*\*\*

ANNUAL TOTALS FOR YEAR 6

	INCHES	CU. FEET	PERCENT
PRECIPITATION	32.43	156568.797	100.00
RUNOFF	5.090	24572.377	15.69
EVAPOTRANSPIRATION	21.175	102229.953	65.29
PERC./LEAKAGE THROUGH LAYER 2	3.724703	17982.494	11.49
AVG. HEAD ON TOP OF LAYER 2	0.6400		
PERC./LEAKAGE THROUGH LAYER 3	3.740451	18058.523	11.53
CHANGE IN WATER STORAGE	2.425	11707.943	7.48
SOIL WATER AT START OF YEAR	95.972	463341.875	
SOIL WATER AT END OF YEAR	96.087	463896.250	

SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	2.310	11153.555	7.12
ANNUAL WATER BUDGET BALANCE	0.0000	0.006	0.00

\*\*\*\*\*

\*\*\*\*\*

ANNUAL TOTALS FOR YEAR 7

	INCHES	CU. FEET	PERCENT
PRECIPITATION	32.88	158741.328	100.00
RUNOFF	4.716	22768.912	14.34
EVAPOTRANSPIRATION	23.443	113179.602	71.30
PERC./LEAKAGE THROUGH LAYER 2	4.791316	23131.996	14.57
AVG. HEAD ON TOP OF LAYER 2	0.6441		
PERC./LEAKAGE THROUGH LAYER 3	4.805127	23198.672	14.61
CHANGE IN WATER STORAGE	-0.084	-405.863	-0.26
SOIL WATER AT START OF YEAR	96.087	463896.250	
SOIL WATER AT END OF YEAR	97.091	468746.531	
SNOW WATER AT START OF YEAR	2.310	11153.555	7.03
SNOW WATER AT END OF YEAR	1.222	5897.434	3.72
ANNUAL WATER BUDGET BALANCE	0.0000	0.002	0.00

\*\*\*\*\*

\*\*\*\*\*

ANNUAL TOTALS FOR YEAR 8

	INCHES	CU. FEET	PERCENT
PRECIPITATION	27.86	134505.312	100.00
RUNOFF	4.991	24097.088	17.92
EVAPOTRANSPIRATION	20.159	97324.508	72.36
PERC./LEAKAGE THROUGH LAYER 2	3.283669	15853.228	11.79



AVG. HEAD ON TOP OF LAYER 2	0.4798		
PERC./LEAKAGE THROUGH LAYER 3	3.252198	15701.289	11.67
CHANGE IN WATER STORAGE	-0.542	-2617.607	-1.95
SOIL WATER AT START OF YEAR	97.091	468746.531	
SOIL WATER AT END OF YEAR	96.040	463670.219	
SNOW WATER AT START OF YEAR	1.222	5897.434	4.38
SNOW WATER AT END OF YEAR	1.731	8356.136	6.21
ANNUAL WATER BUDGET BALANCE	0.0000	0.040	0.00

\*\*\*\*\*

\*\*\*\*\*

ANNUAL TOTALS FOR YEAR 9

	INCHES	CU. FEET	PERCENT
PRECIPITATION	31.85	153768.625	100.00
RUNOFF	7.590	36643.953	23.83
EVAPOTRANSPIRATION	22.287	107597.977	69.97
PERC./LEAKAGE THROUGH LAYER 2	3.348180	16164.680	10.51
AVG. HEAD ON TOP OF LAYER 2	0.5491		
PERC./LEAKAGE THROUGH LAYER 3	3.356787	16206.232	10.54
CHANGE IN WATER STORAGE	-1.384	-6679.527	-4.34
SOIL WATER AT START OF YEAR	96.040	463670.219	
SOIL WATER AT END OF YEAR	95.756	462299.125	
SNOW WATER AT START OF YEAR	1.731	8356.136	5.43
SNOW WATER AT END OF YEAR	0.631	3047.679	1.98
ANNUAL WATER BUDGET BALANCE	0.0000	-0.015	0.00

\*\*\*\*\*

\*\*\*\*\*

ANNUAL TOTALS FOR YEAR 10

	INCHES	CU. FEET	PERCENT
PRECIPITATION	28.83	139188.375	100.00
RUNOFF	3.336	16106.581	11.57
EVAPOTRANSPIRATION	21.636	104458.852	75.05
PERC./LEAKAGE THROUGH LAYER 2	2.998222	14475.114	10.40
AVG. HEAD ON TOP OF LAYER 2	0.3593		
PERC./LEAKAGE THROUGH LAYER 3	2.980684	14390.446	10.34
CHANGE IN WATER STORAGE	0.877	4232.453	3.04
SOIL WATER AT START OF YEAR	95.756	462299.125	
SOIL WATER AT END OF YEAR	95.711	462082.562	
SNOW WATER AT START OF YEAR	0.631	3047.679	2.19
SNOW WATER AT END OF YEAR	1.553	7496.716	5.39
ANNUAL WATER BUDGET BALANCE	0.0000	0.048	0.00

\*\*\*\*\*

\*\*\*\*\*

AVERAGE MONTHLY VALUES IN INCHES FOR YEARS 1 THROUGH 10

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION						
TOTALS	1.50 3.62	1.22 3.54	2.58 2.51	3.88 1.85	2.77 1.88	4.10 2.41
STD. DEVIATIONS	0.43 1.68	0.49 1.13	1.36 0.74	1.29 0.72	0.99 1.13	2.30 1.03
RUNOFF						
TOTALS	0.547 0.002	0.849 0.244	2.547 0.123	1.451 0.009	0.055 0.072	0.231 0.334
STD. DEVIATIONS	0.556 0.006	0.778 0.564	1.948 0.389	1.170 0.029	0.133 0.161	0.637 0.525
EVAPOTRANSPIRATION						
TOTALS	0.525	0.457	0.559	2.475	2.963	3.549

	3.516	3.185	1.906	1.247	0.976	0.480
STD. DEVIATIONS	0.111	0.145	0.302	1.048	1.232	1.313
	1.522	0.459	0.736	0.557	0.278	0.086

PERCOLATION/LEAKAGE THROUGH LAYER 2

TOTALS	0.0183	0.0376	0.2392	0.6473	0.3911	0.3407
	0.2345	0.2772	0.1671	0.3505	0.4556	0.4051
STD. DEVIATIONS	0.0515	0.0732	0.2385	0.2750	0.3300	0.2634
	0.2167	0.1923	0.2172	0.3900	0.4250	0.3406

PERCOLATION/LEAKAGE THROUGH LAYER 3

TOTALS	0.0153	0.0431	0.2408	0.6408	0.4022	0.3337
	0.2314	0.2794	0.1652	0.3508	0.4520	0.4099
STD. DEVIATIONS	0.0429	0.0806	0.2349	0.2832	0.3333	0.2590
	0.2146	0.1944	0.2174	0.3901	0.4220	0.3444

AVERAGES OF MONTHLY AVERAGED DAILY HEADS (INCHES)

DAILY AVERAGE HEAD ON TOP OF LAYER 2

AVERAGES	0.0010	0.0103	0.2983	1.3814	0.8002	0.691
	0.3122	0.4975	0.3004	0.6144	0.9783	0.689C
STD. DEVIATIONS	0.0021	0.0311	0.6229	1.0183	0.8667	0.8151
	0.3886	0.5881	0.4777	1.1680	1.2874	0.926E

\*\*\*\*\*

\*\*\*\*\*

AVERAGE ANNUAL TOTALS & (STD. DEVIATIONS) FOR YEARS 1 THROUGH 10

	INCHES		CU. FEET	PERCENT
PRECIPITATION	31.87	( 3.446)	153850.7	100.00
RUNOFF	6.464	( 2.0839)	31209.43	20.286
EVAPOTRANSPIRATION	21.838	( 1.8169)	105432.41	68.529
PERCOLATION/LEAKAGE THROUGH LAYER 2	3.56445	( 0.89240)	17208.811	11.1854C
AVERAGE HEAD ON TOP OF LAYER 2	0.548	( 0.196)		
PERCOLATION/LEAKAGE THROUGH LAYER 3	3.56458	( 0.89950)	17209.449	11.18581

CHANGE IN WATER STORAGE

0.000

( 1.2996)

-0.60

0.000

\*\*\*\*\*

\*\*\*\*\*

PEAK DAILY VALUES FOR YEARS 1 THROUGH 10

	(INCHES)	(CU. FT.)
PRECIPITATION	3.51	16945.930
RUNOFF	2.188	10561.0420
PERCOLATION/LEAKAGE THROUGH LAYER 2	0.042519	205.27782
AVERAGE HEAD ON TOP OF LAYER 2	6.000	
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.059386	286.70996
SNOW WATER	5.05	24387.1875
MAXIMUM VEG. SOIL WATER (VOL/VOL)		0.5010
MINIMUM VEG. SOIL WATER (VOL/VOL)		0.1350

\*\*\*\*\*



\*\*\*\*\*

FINAL WATER STORAGE AT END OF YEAR 10

---

LAYER	(INCHES)	(VOL/VOL)
1	1.3683	0.2280
2	10.2480	0.4270
3	84.0947	0.2920
SNOW WATER	1.553	

\*\*\*\*\*  
\*\*\*\*\*



LAYER 2

-----

TYPE 3 - BARRIER SOIL LINER  
MATERIAL TEXTURE NUMBER 0

THICKNESS	=	52.00	INCHES
POROSITY	=	0.4270	VOL/VOL
FIELD CAPACITY	=	0.4180	VOL/VOL
WILTING POINT	=	0.3670	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.4270	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.999999997000E-06	CM/SEC

LAYER 3

-----

TYPE 1 - VERTICAL PERCOLATION LAYER  
MATERIAL TEXTURE NUMBER 18

THICKNESS	=	288.00	INCHES
POROSITY	=	0.6710	VOL/VOL
FIELD CAPACITY	=	0.2920	VOL/VOL
WILTING POINT	=	0.0770	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.2919	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.100000005000E-02	CM/SEC

GENERAL DESIGN AND EVAPORATIVE ZONE DATA

-----

NOTE: SCS RUNOFF CURVE NUMBER WAS USER-SPECIFIED.

SCS RUNOFF CURVE NUMBER	=	70.00	
FRACTION OF AREA ALLOWING RUNOFF	=	100.0	PERCENT
AREA PROJECTED ON HORIZONTAL PLANE	=	1.330	ACRES
EVAPORATIVE ZONE DEPTH	=	12.0	INCHES
INITIAL WATER IN EVAPORATIVE ZONE	=	5.326	INCHES
UPPER LIMIT OF EVAPORATIVE STORAGE	=	6.012	INCHES
LOWER LIMIT OF EVAPORATIVE STORAGE	=	1.620	INCHES
INITIAL SNOW WATER	=	0.000	INCHES
INITIAL WATER IN LAYER MATERIALS	=	111.595	INCHES
TOTAL INITIAL WATER	=	111.595	INCHES
TOTAL SUBSURFACE INFLOW	=	0.00	INCHES/YEAR

EVAPOTRANSPIRATION AND WEATHER DATA

-----

NOTE: EVAPOTRANSPIRATION DATA WAS OBTAINED FROM  
MILWAUKEE WISCONSIN

STATION LATITUDE	=	42.57	DEGREES
MAXIMUM LEAF AREA INDEX	=	2.00	

START OF GROWING SEASON (JULIAN DATE) = 130  
 END OF GROWING SEASON (JULIAN DATE) = 283  
 EVAPORATIVE ZONE DEPTH = 12.0 INCHES  
 AVERAGE ANNUAL WIND SPEED = 11.60 MPH  
 AVERAGE 1ST QUARTER RELATIVE HUMIDITY = 72.00 %  
 AVERAGE 2ND QUARTER RELATIVE HUMIDITY = 70.00 %  
 AVERAGE 3RD QUARTER RELATIVE HUMIDITY = 74.00 %  
 AVERAGE 4TH QUARTER RELATIVE HUMIDITY = 75.00 %

NOTE: PRECIPITATION DATA WAS SYNTHETICALLY GENERATED USING  
 COEFFICIENTS FOR MILWAUKEE WISCONSIN

NORMAL MEAN MONTHLY PRECIPITATION (INCHES)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
1.64	1.33	2.58	3.37	2.66	3.59
3.54	3.09	2.88	2.25	1.98	2.03

NOTE: TEMPERATURE DATA WAS SYNTHETICALLY GENERATED USING  
 COEFFICIENTS FOR MILWAUKEE WISCONSIN

NORMAL MEAN MONTHLY TEMPERATURE (DEGREES FAHRENHEIT)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
18.70	23.00	32.10	44.60	54.80	64.90
70.50	69.30	61.90	50.90	37.30	25.10

NOTE: SOLAR RADIATION DATA WAS SYNTHETICALLY GENERATED USING  
 COEFFICIENTS FOR MILWAUKEE WISCONSIN  
 AND STATION LATITUDE = 42.57 DEGREES

\*\*\*\*\*

ANNUAL TOTALS FOR YEAR 1

	INCHES	CU. FEET	PERCENT
PRECIPITATION	30.71	148264.812	100.00
RUNOFF	4.199	20273.428	13.67
EVAPOTRANSPIRATION	22.525	108749.070	73.35
PERC./LEAKAGE THROUGH LAYER 2	3.989510	19260.957	12.99
AVG. HEAD ON TOP OF LAYER 2	1.0752		
PERC./LEAKAGE THROUGH LAYER 3	3.985547	19241.822	12.98

CHANGE IN WATER STORAGE	0.000	0.516	0.00
SOIL WATER AT START OF YEAR	111.595	538770.187	
SOIL WATER AT END OF YEAR	111.595	538770.687	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.022	0.00

\*\*\*\*\*

\*\*\*\*\*

ANNUAL TOTALS FOR YEAR 2

	INCHES	CU. FEET	PERCENT
PRECIPITATION	38.08	183846.469	100.00
RUNOFF	7.567	36533.984	19.87
EVAPOTRANSPIRATION	24.263	117137.703	63.71
PERC./LEAKAGE THROUGH LAYER 2	5.263766	25412.936	13.82
AVG. HEAD ON TOP OF LAYER 2	1.6890		
PERC./LEAKAGE THROUGH LAYER 3	5.280263	25492.584	13.87
CHANGE IN WATER STORAGE	0.970	4682.185	2.55
SOIL WATER AT START OF YEAR	111.595	538770.687	
SOIL WATER AT END OF YEAR	110.806	534961.250	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	1.759	8491.626	4.62
ANNUAL WATER BUDGET BALANCE	0.0000	0.005	0.00

\*\*\*\*\*

\*\*\*\*\*

ANNUAL TOTALS FOR YEAR 3

	INCHES	CU. FEET	PERCENT
PRECIPITATION	34.55	166804.000	100.00



RUNOFF	6.522	31487.547	18.88
EVAPOTRANSPIRATION	26.086	125939.406	75.50
PERC./LEAKAGE THROUGH LAYER 2	3.811365	18400.891	11.03
AVG. HEAD ON TOP OF LAYER 2	1.6888		
PERC./LEAKAGE THROUGH LAYER 3	3.792143	18308.090	10.98
CHANGE IN WATER STORAGE	-1.850	-8931.079	-5.35
SOIL WATER AT START OF YEAR	110.806	534961.250	
SOIL WATER AT END OF YEAR	110.013	531130.687	
SNOW WATER AT START OF YEAR	1.759	8491.626	5.09
SNOW WATER AT END OF YEAR	0.702	3391.094	2.03
ANNUAL WATER BUDGET BALANCE	0.0000	0.036	0.00

\*\*\*\*\*

\*\*\*\*\*

ANNUAL TOTALS FOR YEAR 4

	INCHES	CU. FEET	PERCENT
	-----	-----	-----
PRECIPITATION	26.83	129532.617	100.00
RUNOFF	5.522	26657.502	20.58
EVAPOTRANSPIRATION	19.932	96229.422	74.29
PERC./LEAKAGE THROUGH LAYER 2	1.949564	9412.298	7.27
AVG. HEAD ON TOP OF LAYER 2	0.5834		
PERC./LEAKAGE THROUGH LAYER 3	1.938136	9357.125	7.22
CHANGE IN WATER STORAGE	-0.562	-2711.514	-2.09
SOIL WATER AT START OF YEAR	110.013	531130.687	
SOIL WATER AT END OF YEAR	109.945	530805.375	
SNOW WATER AT START OF YEAR	0.702	3391.094	2.62
SNOW WATER AT END OF YEAR	0.208	1004.934	0.78
ANNUAL WATER BUDGET BALANCE	0.0000	0.078	0.00

\*\*\*\*\*

\*\*\*\*\*

ANNUAL TOTALS FOR YEAR 5

	INCHES	CU. FEET	PERCENT
PRECIPITATION	34.65	167286.703	100.00
RUNOFF	6.930	33455.031	20.00
EVAPOTRANSPIRATION	25.353	122399.648	73.17
PERC./LEAKAGE THROUGH LAYER 2	2.763473	13341.771	7.98
AVG. HEAD ON TOP OF LAYER 2	0.5375		
PERC./LEAKAGE THROUGH LAYER 3	2.763505	13341.925	7.98
CHANGE IN WATER STORAGE	-0.396	-1909.834	-1.14
SOIL WATER AT START OF YEAR	109.945	530805.375	
SOIL WATER AT END OF YEAR	109.758	529900.437	
SNOW WATER AT START OF YEAR	0.208	1004.934	0.60
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.059	0.00

\*\*\*\*\*

\*\*\*\*\*

ANNUAL TOTALS FOR YEAR 6

	INCHES	CU. FEET	PERCENT
PRECIPITATION	32.43	156568.797	100.00
RUNOFF	4.256	20549.182	13.12
EVAPOTRANSPIRATION	22.901	110562.477	70.62
PERC./LEAKAGE THROUGH LAYER 2	3.137692	15148.465	9.68
AVG. HEAD ON TOP OF LAYER 2	0.8630		
PERC./LEAKAGE THROUGH LAYER 3	3.129931	15110.996	9.65
CHANGE IN WATER STORAGE	2.143	10346.191	6.61
SOIL WATER AT START OF YEAR	109.758	529900.437	
SOIL WATER AT END OF YEAR	109.591	529093.125	

SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	2.310	11153.555	7.12
ANNUAL WATER BUDGET BALANCE	0.0000	-0.043	0.00

\*\*\*\*\*

\*\*\*\*\*

ANNUAL TOTALS FOR YEAR 7

	INCHES	CU. FEET	PERCENT
PRECIPITATION	32.88	158741.328	100.00
RUNOFF	2.343	11309.734	7.12
EVAPOTRANSPIRATION	25.989	125473.695	79.04
PERC./LEAKAGE THROUGH LAYER 2	4.389811	21193.566	13.35
AVG. HEAD ON TOP OF LAYER 2	0.8223		
PERC./LEAKAGE THROUGH LAYER 3	4.400246	21243.947	13.38
CHANGE IN WATER STORAGE	0.148	713.963	0.45
SOIL WATER AT START OF YEAR	109.591	529093.125	
SOIL WATER AT END OF YEAR	110.827	535063.187	
SNOW WATER AT START OF YEAR	2.310	11153.555	7.03
SNOW WATER AT END OF YEAR	1.222	5897.434	3.72
ANNUAL WATER BUDGET BALANCE	0.0000	-0.018	0.00

\*\*\*\*\*

\*\*\*\*\*

ANNUAL TOTALS FOR YEAR 8

	INCHES	CU. FEET	PERCENT
PRECIPITATION	27.86	134505.312	100.00
RUNOFF	3.911	18884.008	14.04
EVAPOTRANSPIRATION	21.345	103049.117	76.61
PERC./LEAKAGE THROUGH LAYER 2	3.128876	15105.900	11.23

AVG. HEAD ON TOP OF LAYER 2	0.5631		
PERC./LEAKAGE THROUGH LAYER 3	3.131641	15119.252	11.24
CHANGE IN WATER STORAGE	-0.528	-2547.106	-1.89
SOIL WATER AT START OF YEAR	110.827	535063.187	
SOIL WATER AT END OF YEAR	109.790	530057.375	
SNOW WATER AT START OF YEAR	1.222	5897.434	4.38
SNOW WATER AT END OF YEAR	1.731	8356.136	6.21
ANNUAL WATER BUDGET BALANCE	0.0000	0.044	0.00

\*\*\*\*\*

\*\*\*\*\*

ANNUAL TOTALS FOR YEAR 9

	INCHES	CU. FEET	PERCENT
PRECIPITATION	31.85	153768.625	100.00
RUNOFF	6.573	31735.617	20.64
EVAPOTRANSPIRATION	23.845	115120.547	74.87
PERC./LEAKAGE THROUGH LAYER 2	2.843535	13728.302	8.93
AVG. HEAD ON TOP OF LAYER 2	1.0067		
PERC./LEAKAGE THROUGH LAYER 3	2.859435	13805.068	8.98
CHANGE IN WATER STORAGE	-1.428	-6892.611	-4.48
SOIL WATER AT START OF YEAR	109.790	530057.375	
SOIL WATER AT END OF YEAR	109.462	528473.187	
SNOW WATER AT START OF YEAR	1.731	8356.136	5.43
SNOW WATER AT END OF YEAR	0.631	3047.679	1.98
ANNUAL WATER BUDGET BALANCE	0.0000	-0.001	0.00

\*\*\*\*\*

\*\*\*\*\*

ANNUAL TOTALS FOR YEAR 10

	INCHES	CU. FEET	PERCENT
PRECIPITATION	28.83	139188.375	100.00
RUNOFF	2.070	9993.107	7.18
EVAPOTRANSPIRATION	23.447	113199.758	81.33
PERC./LEAKAGE THROUGH LAYER 2	2.429903	11731.329	8.43
AVG. HEAD ON TOP OF LAYER 2	0.5679		
PERC./LEAKAGE THROUGH LAYER 3	2.414525	11657.087	8.38
CHANGE IN WATER STORAGE	0.899	4338.425	3.12
SOIL WATER AT START OF YEAR	109.462	528473.187	
SOIL WATER AT END OF YEAR	109.439	528362.625	
SNOW WATER AT START OF YEAR	0.631	3047.679	2.19
SNOW WATER AT END OF YEAR	1.553	7496.716	5.39
ANNUAL WATER BUDGET BALANCE	0.0000	0.001	0.00

\*\*\*\*\*

\*\*\*\*\*

AVERAGE MONTHLY VALUES IN INCHES FOR YEARS 1 THROUGH 10

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION						
TOTALS	1.50 3.62	1.22 3.54	2.58 2.51	3.88 1.85	2.77 1.88	4.10 2.41
STD. DEVIATIONS	0.43 1.68	0.49 1.13	1.36 0.74	1.29 0.72	0.99 1.13	2.30 1.03
RUNOFF						
TOTALS	0.324 0.000	0.651 0.005	2.347 0.000	1.347 0.000	0.060 0.000	0.123 0.133
STD. DEVIATIONS	0.328 0.000	0.580 0.014	1.864 0.000	1.049 0.000	0.135 0.000	0.388 0.316
EVAPOTRANSPIRATION						
TOTALS	0.510	0.459	0.569	2.495	3.392	3.988

	3.914	3.521	2.074	1.231	0.943	0.472
STD. DEVIATIONS	0.139	0.145	0.315	1.067	1.193	1.282
	1.641	0.465	0.664	0.499	0.271	0.081
PERCOLATION/LEAKAGE THROUGH LAYER 2						
-----						
TOTALS	0.0209	0.0087	0.1774	0.7226	0.8919	0.4604
	0.0932	0.1137	0.1149	0.1188	0.2905	0.3577
STD. DEVIATIONS	0.0411	0.0275	0.2551	0.3712	0.3831	0.3826
	0.1918	0.2359	0.2621	0.3099	0.3713	0.4100
PERCOLATION/LEAKAGE THROUGH LAYER 3						
-----						
TOTALS	0.0176	0.0109	0.1742	0.7183	0.8924	0.4593
	0.0951	0.1130	0.1213	0.1175	0.2866	0.3634
STD. DEVIATIONS	0.0382	0.0345	0.2542	0.3717	0.3804	0.3828
	0.1947	0.2402	0.2697	0.3077	0.3745	0.4157

-----  
 AVERAGES OF MONTHLY AVERAGED DAILY HEADS (INCHES)  
 -----

DAILY AVERAGE HEAD ON TOP OF LAYER 2

AVERAGES	0.0046	0.0002	0.6133	3.6456	3.3038	1.2144
	0.2301	0.4270	0.3101	0.1566	0.4756	0.8950
STD. DEVIATIONS	0.0108	0.0006	1.3192	2.4788	2.5092	2.3406
	0.6713	0.9620	0.8873	0.4916	1.0421	1.6633

\*\*\*\*\*

\*\*\*\*\*

AVERAGE ANNUAL TOTALS & (STD. DEVIATIONS) FOR YEARS 1 THROUGH 10

	INCHES		CU. FEET	PERCENT
	-----	-----	-----	-----
PRECIPITATION	31.87	( 3.446)	153850.7	100.00
RUNOFF	4.989	( 1.9265)	24087.92	15.657
EVAPOTRANSPIRATION	23.568	( 1.9905)	113786.07	73.959
PERCOLATION/LEAKAGE THROUGH LAYER 2	3.37075	( 0.99239)	16273.641	10.57755
AVERAGE HEAD ON TOP OF LAYER 2	0.940	( 0.439)		
PERCOLATION/LEAKAGE THROUGH LAYER 3	3.36954	( 0.99854)	16267.788	10.57375



CHANGE IN WATER STORAGE

-0.060 ( 1.1802)

-291.09

-0.189

\*\*\*\*\*

\*\*\*\*\*

PEAK DAILY VALUES FOR YEARS 1 THROUGH 10

	(INCHES)	(CU. FT.)
PRECIPITATION	3.51	16945.930
RUNOFF	2.126	10262.8457
PERCOLATION/LEAKAGE THROUGH LAYER 2	0.041807	201.84032
AVERAGE HEAD ON TOP OF LAYER 2	11.912	
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.058091	280.45831
SNOW WATER	5.05	24387.1875
MAXIMUM VEG. SOIL WATER (VOL/VOL)		0.5010
MINIMUM VEG. SOIL WATER (VOL/VOL)		0.1350

\*\*\*\*\*

\*\*\*\*\*

FINAL WATER STORAGE AT END OF YEAR 10

LAYER	(INCHES)	(VOL/VOL)
1	3.1581	0.2632
2	22.2040	0.4270
3	84.0774	0.2919
SNOW WATER	1.553	

\*\*\*\*\*

**ATTACHMENT C**  
**CALCULATION SHEETS**

CALCULATION SHEET

PAGE 1 OF 2  
PROJECT NO. 30250

CLIENT \_\_\_\_\_ SUBJECT Throughflow Calculation Prepared By BJL Date 01/24/00  
PROJECT Lime Kiln Landfill \_\_\_\_\_ Summary \_\_\_\_\_ Reviewed By RJA Date 01/28/2000  
Village of Grafton, WI \_\_\_\_\_ Approved By JE Date 01/28/2000

Objective

Calculate groundwater throughflow for waste material at Lime Kiln Park Landfill

Equation

Darcy's Law

$$Q = KIA$$

Where: Q = volume of water flowing through waste  
K = hydraulic conductivity of bedrock in contact with waste  
I = horizontal hydraulic gradient from Figure 5 of the Investigation Report  
A = Cross-sectional area of waste perpendicular to groundwater flow

Assumptions

$$K = 1.8 \times 10^{-3} \text{ cm/sec (Earth Tech, Investigation Report, January, 1999)}$$

I = change in head between the 710 and 695 contours divided by the distance between the contours directly upgradient of the landfill (Figure 5, (Earth Tech, Investigation Report, January, 1999)

$$= 15 \text{ ft} / 550 \text{ ft} = \underline{0.027 \text{ ft/ft}}$$

A = waste width perpendicular to flow \* saturated thickness of waste

$$= 250 \text{ ft} * 7 \text{ ft} = \underline{1750 \text{ ft}^2}$$

Calculations/Results

$$Q = 1.8 \times 10^{-3} \text{ cm/sec} * 2834 \text{ ft/day conversion} * 365 \text{ day/year} * 0.027 \text{ ft/ft} * 1750 \text{ ft}^2$$

$$\underline{Q = 89,000 \text{ ft}^3/\text{yr of water flows through waste material below the water table.}$$

**ATTACHMENT D**  
**UPDATED MONITORING PLAN**



**APPENDIX C**  
**CALCULATION SHEETS**

CLIENT Village of Grafton SUBJECT Vertical Gradient Prepared By DJZ Date \_\_\_\_\_

PROJECT Lime Kiln Park Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Approved By \_\_\_\_\_ Date \_\_\_\_\_

**Objective:** Calculate the Vertical Gradient for the Lime Kiln Park area in the Village of Grafton

**Criteria and Assumptions:**

- Elevation of Well Bottom for P8B is 541.84 feet above Mean Sea Level
- Gradient is calculated by: change in water elevation / change in elevation of well bottom

Vertical Gradient							
Well Number	Date	Water Elevation	Ground Elevation	Well Depth	Elevation of Well Bottom	Gradient	Direction
P2A	March-2000	697.02	711.5	22.55	690.65	0.05586	Downward
P2B	March-2000	694.11	711.5	75.24	638.56		
P8A	March-2000	689.14	745.62	115.3	629.97	0.01464	Downward
P8B	March-2000	687.85	740.35	198.45	541.84		
P2A	June-2000	697.06	711.5	22.77	690.43	0.05127	Downward
P2B	June-2000	694.39	711.5	75.45	638.35		
P8A	June-2000	689.97	745.62	115.18	630.09	0.01734	Downward
P8B	June-2000	688.44	740.35	198.45	541.84		
P2A	September-2000	696.69	711.5	22.77	690.43	0.0576	Downward
P2B	September-2000	693.69	711.5	75.45	638.35		
P8A	September-2000	689.29	745.62	115.17	630.1	0.00816	Downward
P8B	September-2000	688.57	740.35	198.45	541.84		
P2A	December-2000	696.86	711.5	22.77	690.43	0.05319	Downward
P2B	December-2000	694.09	711.5	75.45	638.35		
P8A	December-2000	689.72	745.62	115.17	630.1	0.01303	Downward
P8B	December-2000	688.57	740.35	198.45	541.84		

Facility Name LIME KILN PARK			Facility ID Number	License, Permit or Monitoring No.	Date 7/19/2001	Completed By (Name and Firm) DAVID ZOLP/ EARTH TECH														
WI Unique Well No	Well Name	DNR Well ID Number	Well Location	Dir. N   S E   W	Date Established	Well Casing		Elevations		Reference		Depths			Screen Length	Well Type	Well Status	Enf. Stds.	Gradient	Distance to Waste
						Diam.	Type	Top of Well Casing	Ground Surface	MSL (✓)	Site Datum (✓)	Screen Top	Initial Groundwater	Well Depth						
PN851	P2A		482193.9	X	2/18/1998	2	P	713.2	711	X		10.5	15.8	20.5	10	11/mw	A	X	D	50
			2544551	X																
PN852	P2B		482200.9	X	3/25/1998	2	P	713.8	711.5	X		73.5	17.2	75.2	10	12/pz	A	X	D	50
			2544559.7	X																
PN853	P3B		482060.1	X	3/26/1998	2	P	716.9	714.6	X		70	17	82.4	10	12/pz	A	X	S	0
			2544019.5	X																
PN854	P4B		482666.6	X	3/30/1998	2	P	733.9	731.3	X		79.5	20.4	92.9	10	12/pz	A	X	U	0
			2544118.5	X																
PN855	LW-01		482448.2	X	2/16/1998	6	P	731.9	728.8	X		13	27.5	33	20	24/lh	A	X	N	0
			2544360.7	X																
PN856	LW-02		482348.3	X	2/17/1998	6	P	0	726.9	X		8.5	24.9	30	20	24/lh	A	X	N	0
			2544422	X																
PN857	P7B		479749.79	X	3/17/2000	1.4	P	693.34	690.5	X		55	10.46	150	10	11/mw	A			0
			2546382.69	X																
PN858	P8A		481635.3	X	3/23/2000	2	P	745.27	745.62	X		105	0	120	10	11/mw	A			0
			2544947.09	X																
PN859	P8B		481544.32	X	3/15/2000	2	P	740.29	740.35	X		188	52.44	210	10	11/mw	A			0
			2544891.65	X																
PN860	P9B		481568.22	X	3/15/2000	2	P	737.81	736.47	X		95	45.17	105	10	11/mw	A			0
			2544327.56	X																

Location Coordinates Are:  
 State Plane Coordinate     Local Grid System  
 Northern  
 Central  
 Southern

Grid Origin Location: (Check if estimated: )  
 Lat. \_\_\_\_ ° \_\_\_\_ ' \_\_\_\_ "    Long. \_\_\_\_ ° \_\_\_\_ ' \_\_\_\_ " or  
 St. Plane \_\_\_\_ ft. N.    \_\_\_\_ ft. E.    S Zone

Remarks:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Completion of this form is mandatory under s. NR 507.14 and NR 110.25 Wis. Adm. Code. Failure to file this form may result in forfeiture of not less than \$10 nor more than \$5,000 for each day of violation. Personally identifiable information provided is intended to be used by the Department for the purposes related to the waste management program.

Facility/Project Name: GLASTON Local Grid Location of Well: \_\_\_\_\_ ft.  N  S \_\_\_\_\_ ft.  E  W Well Name: P 713

Facility License, Permit or Monitoring Number: \_\_\_\_\_ Grid Origin Location: \_\_\_\_\_ Lat. \_\_\_\_\_ Long. \_\_\_\_\_ or \_\_\_\_\_ St. Plane \_\_\_\_\_ ft. N, \_\_\_\_\_ ft. E. Wis. Unique Well Number: \_\_\_\_\_ DNR Well Number: \_\_\_\_\_

Type of Well: Water Table Observation Well  11 Piezometer  12 Date Well Installed: 31 27 00  
m m d d y y

Distance Well Is From Waste/Source Boundary: \_\_\_\_\_ ft. Section Location of Waste/Source: \_\_\_\_\_ 1/4 of \_\_\_\_\_ 1/4 of Sec. \_\_\_\_\_, T. \_\_\_\_\_ N, R. \_\_\_\_\_ E  W Well Installed By: (Person's Name and Firm)  
Todd Schmalzfeld  
Bour Longue

Well A Point of Enforcement Std. Application?  Yes  No Location of Well Relative to Waste/Source:  
u  Upgradient s  Sidegradient  
d  Downgradient n  Not Known

A. Protective pipe, top elevation \_\_\_\_\_ ft. MSL  
B. Well casing, top elevation \_\_\_\_\_ ft. MSL  
C. Land surface elevation \_\_\_\_\_ ft. MSL  
D. Surface seal, bottom \_\_\_\_\_ ft. MSL or \_\_\_\_\_ ft.

1. Cap and lock?  Yes  No  
2. Protective cover pipe:  
a. Inside diameter: \_\_\_\_\_ in. 4  
b. Length: \_\_\_\_\_ ft. 7  
c. Material: Steel  04  
Other   
d. Additional protection?  Yes  No  
If yes, describe: \_\_\_\_\_

3. Surface seal: Bentonite  30  
Concrete  01  
Other   
4. Material between well casing and protective pipe:  
Bentonite  30  
Annular space seal   
Other   
5. Annular space seal:  
a. Granular Bentonite  33  
b. \_\_\_\_\_ Lbs/gal mud weight ... Bentonite-sand slurry  35  
c. \_\_\_\_\_ Lbs/gal mud weight ... Bentonite slurry  31  
d. \_\_\_\_\_ % Bentonite ... Bentonite-cement grout  50  
e. \_\_\_\_\_ Ft<sup>3</sup> volume added for any of the above  
f. How installed: Tremie  01  
Tremie pumped  02  
Gravity  08  
gas 03 bags  
bentonite chips

6. Bentonite seal:  
a. Bentonite granules  33  
b.  1/4 in.  3/8 in.  1/2 in. Bentonite pellets  32  
c. \_\_\_\_\_ Other   
7. Fine sand material: Manufacturer, product name & mesh size  
a. 35# 7 fine sand 1x0.550  
b. Volume added \_\_\_\_\_ ft<sup>3</sup>  
8. Filter pack material: Manufacturer, product name and mesh size  
a. gas 03 bag (100) filter # 30  
b. Volume added \_\_\_\_\_ ft<sup>3</sup>  
9. Well casing: Flush threaded PVC schedule 40  23  
Flush threaded PVC schedule 80  24  
Other   
10. Screen material: sch 80 pvc  
a. Screen type: Factory cut  11  
Continuous slot  01  
Other   
b. Manufacturer \_\_\_\_\_  
c. Slot size: \_\_\_\_\_ 0.310 in.  
d. Slotted length: \_\_\_\_\_ 9.5 ft.  
11. Backfill material (below filter pack): None  14  
Other   
Baroid bentonite chips

2. USCS classification of soil near screen:  
GP  GM  GC  GW  SW  SP   
SM  SC  ML  MH  CL  CH   
Bedrock

13. Sieve analysis attached?  Yes  No  
14. Drilling method used: Rotary  50  
Hollow Stem Auger  41  
Other   
15. Drilling fluid used: Water  02 Air  01  
Drilling Mud  03 None  99  
16. Drilling additives used?  Yes  No  
Describe \_\_\_\_\_  
17. Source of water (attach analysis):  
NA

E. Bentonite seal, top 2.0 ft. MSL or \_\_\_\_\_ ft.  
F. Fine sand, top 48.52 ft. MSL or \_\_\_\_\_ ft.  
G. Filter pack, top 50.1 ft. MSL or \_\_\_\_\_ ft.  
H. Screen joint, top 55 ft. MSL or \_\_\_\_\_ ft.  
I. Well bottom 65 ft. MSL or \_\_\_\_\_ ft.  
J. Filter pack, bottom \_\_\_\_\_ ft. MSL or \_\_\_\_\_ ft.  
K. Borehole, bottom 150 ft. MSL or \_\_\_\_\_ ft.  
L. Borehole, diameter 6.0 in.  
M. O.D. well casing 2.0 in.  
N. I.D. well casing 1.4 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.  
Signature: \_\_\_\_\_ Firm: Carth Tech

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Ad. Code. In accordance with ch. 144, Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.



Route to: Solid Waste  Haz. Waste  Wastewater   
Env. Response & Repair  Underground Tanks  Other  \_\_\_\_\_

Facility/Project Name <u>GRANTON</u>	County Name	Well Name <u>P7B</u>
Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number
		DNR Well Number

1. Can this well be purged dry?  Yes  No
2. Well development method
- surged with bailer and bailed  41
  - surged with bailer and pumped  61
  - surged with block and bailed  42
  - surged with block and pumped  62
  - surged with block, bailed and pumped  70
  - compressed air  20
  - bailed only  10
  - pumped only  51
  - pumped slowly  50
  - Other  \_\_\_\_\_
3. Time spent developing well 90 65 min.
4. Depth of well (from top of well casing) \_\_\_\_\_ ft.
5. Inside diameter of well 1.4 in.
6. Volume of water in filter pack and well casing 15 10.3 gal.
7. Volume of water removed from well 163.0 gal.
8. Volume of water added (if any) \_\_\_\_\_ gal.
9. Source of water added \_\_\_\_\_
10. Analysis performed on water added?  Yes  No  
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>10.46</u> ft.	_____ ft.
Date	b. <u>03/23/00</u> m m d d y y	____/____/____ m m d d y y
Time	c. <u>15:00</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.	____:____ <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	<u>0.0</u> inches	_____ inches
13. Water clarity	Clear <input checked="" type="checkbox"/> 10 Turbid <input type="checkbox"/> 15 (Describe) <u>Turbid</u> <u>low turbid</u> <u>after 150</u> <u>gallons</u> <u>removed</u>	Clear <input type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe)
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: J. Kopsch

Firm: Earth Tech

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: \_\_\_\_\_

Print Initials: JKK

Firm: Earth Tech

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.















GW	GP	GM	GC	SW	SP	SM	SC	ML	MH	CL	CH	OL	OH
----	----	----	----	----	----	----	----	----	----	----	----	----	----

**PERCENTAGES OF GRAVEL, SAND AND FINES MAY BE STATED IN TERMS INDICATING A RANGE OF PERCENTAGES AS FOLLOWS:**

TRACE PARTICLES ARE PRESENT BUT EST. TO BE LESS THAN 5%

FEW 5 TO 10%

LITTLE 15 TO 25%

SOME 30 TO 45%

MOSTLY 50 TO 100%

**ADDITIONAL DRILLING DATA**

SPLIT TUBE SIZE \_\_\_\_\_ ID \_\_\_\_\_ OD \_\_\_\_\_

HAMMER WT. \_\_\_\_\_ lb \_\_\_\_\_ in drop \_\_\_\_\_

THIN WALL TUBE SIZE \_\_\_\_\_ OD \_\_\_\_\_

CASING USED \_\_\_\_\_ LF \_\_\_\_\_ Dia. \_\_\_\_\_

DRILL ROD SIZE \_\_\_\_\_

DRILL BIT TYPE \_\_\_\_\_ (a) \_\_\_\_\_ (b) \_\_\_\_\_

DRILL BIT SIZE \_\_\_\_\_ (a) \_\_\_\_\_ (b) \_\_\_\_\_

AUGER TYPE \_\_\_\_\_ OD \_\_\_\_\_

HOLLOW STEM AUGER \_\_\_\_\_ ID \_\_\_\_\_

<p><b>STANDARD PENETRATION TEST CONSISTENCY OR DENSITY FINE GRAINED</b></p> <p>VERY SOFT (VS) 0-2</p> <p>SOFT (S) 3-4</p> <p>MEDIUM (M) 5-8</p> <p>STIFF (ST) 9-16</p> <p>VERY STIFF (VST) 17-30</p> <p>HARD (H) &gt;30</p>	<p><b>CRITERIA FOR DESCRIBING ANGULARITY OF COARSE-GRAINED PARTICLES</b></p> <p><b>DESCRIPTION CRITERIA</b></p> <p>ANGULAR PARTICLES HAVE SHARP EDGES AND RELATIVELY PLANE SIDES WITH UNPOLISHED SURFACES</p> <p>SUBANGULAR PARTICLES ARE SIMILAR TO ANGULAR DESCRIPTION BUT HAVE ROUNDED EDGES</p> <p>SUBROUNDED PARTICLES HAVE NEARLY PLANE SIDES BUT HAVE WELL-ROUNDED CORNERS AND EDGES</p> <p>ROUNDED PARTICLES HAVE SMOOTHLY CURVED SIDES AND NO EDGES</p>	<p><b>SOIL DESCRIPTION REQUIREMENTS (TO BE LISTED IN THIS ORDER WITH EACH ITEM SEPERATED BY A COMMA)</b></p> <ol style="list-style-type: none"> <li>1 CONSISTENCY OR DENSITY (BASED ON N VALUE)</li> <li>2 MUNSELL COLOR DESCRIPTION</li> <li>3 MUNSELL HUE/CHROMA</li> <li>4 USCS GROUP NAME (ALL CAPS)</li> <li>5 GRAIN SIZE RANGE (FOR SAND &amp; GRAVEL)</li> <li>6 ROUNDNESS OR ANGULARITY (SAND &amp; GRAVEL)</li> <li>7 MOISTURE</li> <li>8 PLASTICITY</li> <li>9 COHESIVNESS</li> <li>10 DISTINCTIVE FEATURES</li> <li>11 DEPOSITIONAL ENVIRONMENT</li> <li>12 FORMATION/MEMBER (OPTIONAL, IF KNOWN-ALL CAPS)</li> </ol>
<p><b>COARSE GRAINED</b></p> <p>VERY LOOSE (VL) 0-4</p> <p>LOOSE (L) 5-9</p> <p>MEDIUM DENSE (MD) 10-29</p> <p>DENSE (D) 30-49</p> <p>VERY DENSE (VD) &gt;50</p>	<p><b>CRITERIA FOR DESCRIBING MOISTURE CONDITION</b></p> <p><b>DESCRIPTION CRITERIA</b></p> <p>DRY ABSENCE OF MOISTURE, DUSTY, DRY TO THE TOUCH</p> <p>MOIST DAMP BUT NO VISIBLE WATER</p> <p>WET VISIBLE FREE WATER, USUALLY SOIL IS BELOW WATER TABLE</p>	<p><b>NOTE: INCLUDE ESTIMATE OF GRAVEL, SAND, AND SILT AND CLAY PERCENTAGES IN LOWER RIGHT CORNER OF DESCRIPTION INTERVAL (SEE EXAMPLE BELOW)</b></p>

<p><b>CRITERIA FOR DESCRIBING STRUCTURE</b></p> <p>STRATIFIED ALTERNATING LAYERS OF VARYING MATERIAL OR COLOR WITH LAYERS AT LEAST 6MM THICK (NOTE THICKNESS)</p> <p>LAMINATED ALTERNATING LAYERS OF VARYING MATERIAL OR COLOR WITH THE LAYERS LESS THAN 6MM THICK; NOTE THICKNESS</p> <p>FIGURED BREAKS ALONG DEFINITE PLANES OF FRACTURE WITH LITTLE RESISTANCE TO FRACTURING</p> <p>SLICKEN-SIDED FRACTURE PLANES APPEAR POLISHED OR GLOSSY, SOMETIMES STRIATED</p> <p>BLOCKY COHESIVE SOIL THAT CAN BE BROKEN DOWN INTO SMALL ANGULAR LUMPS WHICH RESIST FURTHER BREAKDOWN</p> <p>LENSED INCLUSION OF SMALL POCKETS OF DIFFERENT SOILS SUCH AS SMALL LENSES OF SAND SCATTERED THROUGH A MASS OF CLAY; NOTE THICKNESS</p> <p>HOMOGENEOUS SAME COLOR AND APPEARANCE THROUGHOUT</p>	<p><b>CRITERIA FOR DESCRIBING PLASTICITY</b></p> <p>NON-PLASTIC A 1/2-IN (3MM) THREAD CANNOT BE ROLLED AT ANY WATER CONTENT</p> <p>LOW THE THREAD CAN BARELY BE ROLLED AND THE LUMP CANNOT BE FORMED WHEN DRIER THAN THE PLASTIC LIMIT</p> <p>MEDIUM THE THREAD IS EASY TO ROLL AND NOT MUCH TIME IS REQUIRED TO REACH THE PLASTIC LIMIT. THE THREAD CANNOT BE REROLLED AFTER REACHING THE PLASTIC LIMIT. THE LUMP CRUMBLES WHEN DRIER THAN THE PLASTIC LIMIT</p> <p>HIGH IT TAKES CONSIDERABLE TIME ROLLING AND KNEADING TO REACH THE PLASTIC LIMIT. THE THREAD CAN BE REROLLED SEVERAL TIMES AFTER REACHING THE PLASTIC LIMIT. THE LUMP CAN BE FORMED WITHOUT CRUMBLING WHEN DRIER THAN THE PLASTIC LIMIT</p>	<p><b>TYPICAL HOLLOW-STEM AUGER SIZES WITH SLIP-FIT, BOX AND PIN CONNECTIONS (AFTER CENTRAL MINE EQUIPMENT CO. 1967)</b></p> <table border="1"> <thead> <tr> <th>HOLLOW-STEM INSIDE DIAMETER (IN.)</th> <th>FLIGHTING DIAMETER (IN.)</th> <th>AUGER HEAD CUTTING DIAMETER (IN.)</th> </tr> </thead> <tbody> <tr><td>2 1/4</td><td>5 5/8</td><td>6 1/4</td></tr> <tr><td>2 3/4</td><td>6 1/8</td><td>6 3/4</td></tr> <tr><td>3 1/4</td><td>6 5/8</td><td>7 1/4</td></tr> <tr><td>3 3/4</td><td>7 1/8</td><td>7 3/4</td></tr> <tr><td>4 1/4</td><td>7 5/8</td><td>8 1/4</td></tr> <tr><td>6 1/4</td><td>9 5/8</td><td>10 1/4</td></tr> <tr><td>8 1/4</td><td>11 5/8</td><td>12 1/2</td></tr> </tbody> </table>	HOLLOW-STEM INSIDE DIAMETER (IN.)	FLIGHTING DIAMETER (IN.)	AUGER HEAD CUTTING DIAMETER (IN.)	2 1/4	5 5/8	6 1/4	2 3/4	6 1/8	6 3/4	3 1/4	6 5/8	7 1/4	3 3/4	7 1/8	7 3/4	4 1/4	7 5/8	8 1/4	6 1/4	9 5/8	10 1/4	8 1/4	11 5/8	12 1/2
HOLLOW-STEM INSIDE DIAMETER (IN.)	FLIGHTING DIAMETER (IN.)	AUGER HEAD CUTTING DIAMETER (IN.)																								
2 1/4	5 5/8	6 1/4																								
2 3/4	6 1/8	6 3/4																								
3 1/4	6 5/8	7 1/4																								
3 3/4	7 1/8	7 3/4																								
4 1/4	7 5/8	8 1/4																								
6 1/4	9 5/8	10 1/4																								
8 1/4	11 5/8	12 1/2																								

**SUGGESTED PROCEDURES FOR ESTIMATING THE PERCENTAGES OF GRAVEL, SAND, AND FINES IN A SOIL SAMPLE**

**JAR METHOD - THE RELATIVE PERCENTAGE OF COARSE-AND FINE-GRAINED MATERIAL MAY BE ESTIMATED BY THOROUGHLY SHAKING A MIXTURE OF SOIL AND WATER IN A TEST TUBE OR JAR, AND THEN ALLOWING THE MIXTURE TO SETTLE. THE COARSE PARTICLES WILL FALL TO THE BOTTOM AND SUCCESSIVELY FINER PARTICLES WILL BE DEPOSITED WITH INCREASING TIME. THE SAND SIZES WILL FALL OUT OF SUSPENSION IN 20 TO 30 SEC. THE RELATIVE PROPORTIONS CAN BE ESTIMATED FROM THE RELATIVE VOLUME OF EACH SIZE SEPARATE. THIS METHOD SHOULD BE CORRELATED TO PARTICLE-SIZE LABORATORY DETERMINATIONS**

**VISUAL METHOD - MENTALLY VISUALIZE THE GRAVEL SIZE PARTICLES PLACED IN A SACK (OR OTHER CONTAINER) OR SACKS, THEN DO THE SAME WITH THE SAND SIZE PARTICLES AND THE FINES. THEN MENTALLY COMPARE THE NUMBER OF SACKS TO ESTIMATE THE PERCENTAGE OF PLUS NO. 4 SIEVE SIZE AND MINUS NO. 4 SIEVE SIZE PRESENT. THE PERCENTAGES OF SAND AND FINES IN THE MINUS SIEVE SIZE NO. 4 MATERIAL CAN THEN BE ESTIMATED FROM THE WASH TEST (X4.3)**

**WASH TEST - FOR RELATIVE PERCENTAGE OF SAND AND FINES. SELECT AND MOISTEN ENOUGH MINUS NO. 4 SIEVE SIZE MATERIAL TO FORM A 1-IN (25-MM) CUBE OF SOIL. CUT THE CUBE IN HALF, SET ONE HALF TO THE SIDE, AND PLACE THE OTHER HALF IN A SMALL DISH. WASH AND DECANT THE FINES OUT OF THE MATERIAL IN THE DISH UNTIL THE WASH WATER IS CLEAR AND THEN COMPARE THE TWO SAMPLES AND ESTIMATE THE PERCENTAGE OF SAND AND FINES. REMEMBER THAT THE PERCENTAGE IS BASED ON WEIGHT, NOT VOLUME. HOWEVER THE VOLUME COMPARISON WILL PROVIDE A REASONABLE INDICATION OF GRAIN SIZE PERCENTAGES. X4.3.1 WHILE WASHING, IT MAY BE NECESSARY TO BREAK DOWN LUMPS OF FINES WITH THE FINGER TO GET THE CORRECT PERCENTAGES**

**IDENTIFICATION OF INORGANIC FINE-GRADED SOILS FROM MANUAL TESTS**

SOIL SYMBOL	DRY STRENGTH	DILATANCY	TOUGHNESS
ML	NONE TO LOW	SLOW TO RAPID	LOW OR THREAD CANNOT BE FORMED
CL	MEDIUM TO HIGH	NONE TO SLOW	MEDIUM
MH	LOW TO MEDIUM	NONE TO SLOW	LOW TO MEDIUM
CH	HIGH TO VERYHIGH	NONE	HIGH

**VOLUME OF SCHEDULE 40 PVC PIPE**

DIAMETER	O.D.	I.D.	VOLUME GAL./LINEAR FT.
1 1/4"	1.66	1.39	0.08
2"	2.37	2.06	0.17
3"	3.50	3.06	0.38
4"	4.50	4.02	0.66
6"	6.62	6.06	1.50
8"	8.62	7.98	2.60
12"	12.75	11.93	5.81

**VOLUME OF OPEN BOREHOLE AND ANNULUS BETWEEN CASING AND HOLE**

HOLE DIAMETER	VOLUME LIN. FT. GAL. [CU. FT.]	CASING DIA.	VOLUME LIN. FT. GAL. [CU. FT.]	LBS./LIN. FT. SAND PELLETS
7 1/4"	2.14 .29	1 1/4"	2.03 0.27	27 21
7 1/4"	2.14 .29	2"	1.91 0.26	26 20
7 3/4"	2.45 .33	2"	2.22 0.30	30 23
8 1/4"	2.78 .37	2"	2.55 0.34	34 26
10 1/4"	4.28 .57	2"	4.06 0.54	54 41
8 1/4"	2.78 .37	3"	2.29 0.30	30 23
10 1/4"	4.29 .57	3"	3.79 0.51	51 38
12 1/4"	6.13 .82	3"	5.62 0.75	75 57
8 1/4"	2.78 .37	4"	1.95 0.26	26 20
10 1/4"	4.29 .57	4"	3.46 0.46	46 35
12 1/4"	6.13 .82	4"	5.30 0.71	71 54
12 1/4"	6.13 .82	6"	4.33 0.58	58 44

**MISCELLANEOUS DATA**

1 CU. FT. = 7.5 GAL. (APPROX)

1 GALLON = .134 CU. FT. (APPROX)

1 CU. YD. = 202 GAL. (APPROX)

1 GALLON = .005 CU. YD. (APPROX)

1 GALLON OF WATER = 8.34 LBS. (APPROX)

1 CU. FT. OF FRESH WATER = 62.4 LBS. (APPROX)

PSI = .434 X THE HEIGHT OF THE WATER COLUMN IN FT.

FEET OF HEAD = PSI X 2.304

1 BARREL = 42 GALLONS (APPROX)

1 SACK OF SAND = 1 CU. FT. AND APPROX 100 LBS.

1 SACK OF CEMENT = 1 CU. FT. AND APPROX 96 LBS.

1 PAIL OF BENTONITE PELLETS = 30 LBS. (APPROX)

**EXAMPLE:**

DEPTH IN FEET	SAMPLING DATA						GRAPHIC LOG	USCS	SOIL DESCRIPTION AND DRILLING COMMENTS
	B	N	A	R	NO.	T			
3					1	SS		SP	Loess, Yellowish brown, (10YR 5/6), POORLY GRADED SAND WITH GRAVEL, fine to medium, subangular to subrounded, dry, iron-stained, LACUSTRINE
4									
4									
6									

15/85/00



Well No.

P7B

Date:

3/23/00

Mon. Tues. Weds Thurs. Fri.

Site:

GRABON

Weather:

MU

Project No.:

Development Method:

Pumped

Bailed

Other:

Pump Type:

Bailer Type:

Volume Calculation:

$(68.62 - 10.46) \times 0.16 + (17 \times 30 \times 1.24) = 9.3 + 6.3 = 15.6$

(D.T.B. - D.T.W. x vol./ft. = PVC/well volume) + (N\* x H\* x Annulus vol./ft.) = Total Well Volume

\* (Wells that cannot be purged dry, 10x's the Total Well Volume must be purged)

(Wells that can be purged dry, slowly removing water, without surging until dry)

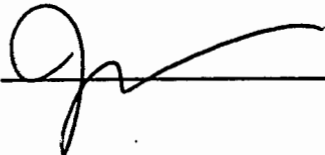
Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Cond.	Temp.	DO Color	OPP Odor Y/N	TPS Turbidity
1500	10.46	68.62		6.98	1037	12.1	146		746.3
1515			25	6.69	753.9	10.8	190		529.9
1530			50	6.76	718.6	10.7			503.8
1545			75	6.78	712.0	10.5	171		498.7
1600			100	6.76	706.2	10.4	167		494.7
1615			125	6.77	701.4	10.5	166		491.3
1630			150	6.70	695.8	10.5	161	7.42	488

Comments:

forgot DO at 1530.  
Sampled when Dev. Completed

- \*N = porosity of filter pack
- \*H = length of filter pack or length of saturated filter pack (water level within screen length)
- \* = A 30-minute surge and purge before the 10x's the Total Well Volume

Signature:



Annulus	vol./ft.	Inside Diameter	vol./ft.
4"	0.42	1"	0.04
6"	1.24	1.25"	0.06
8"	2.38	2"	0.16
10"	3.85	4"	0.65

HNu/PPM	LEL/%	O2/%	H2S/PPM	CO/PPM



Facility/Project Name GLAXTON

Facility License, Permit or Monitoring Number \_\_\_\_\_

Type of Well Water Table Observation Well  11  
Piezometer  12

Distance Well Is From Waste/Source Boundary \_\_\_\_\_ ft.

Is Well A Point of Enforcement Std. Application?  
 Yes  No

Local Grid Location of Well  
\_\_\_\_\_ ft.  N. \_\_\_\_\_ ft.  E.  
\_\_\_\_\_ ft.  S. \_\_\_\_\_ ft.  W.

Grid Origin Location  
Lat. \_\_\_\_\_ Long. \_\_\_\_\_ or  
St. Plane \_\_\_\_\_ ft. N, \_\_\_\_\_ ft. E.

Section Location of Waste/Source  
1/4 of \_\_\_\_\_ 1/4 of Sec. \_\_\_\_\_, T. \_\_\_\_\_ N, R. \_\_\_\_\_  E.  W.

Location of Well Relative to Waste/Source  
u  Upgradient s  Sidegradient  
d  Downgradient n  Not Known

Well Name PSA 179 120 90

Wis. Unique Well Number \_\_\_\_\_ DNR Well Number \_\_\_\_\_

Date Well Installed 03/23/00  
m m d d y y

Well Installed By: (Person's Name and Firm)  
J. Schmalzer  
Poart Layer

A. Protective pipe, top elevation \_\_\_\_\_ ft. MSL

B. Well casing, top elevation \_\_\_\_\_ ft. MSL

C. Land surface elevation \_\_\_\_\_ ft. MSL

D. Surface seal, bottom \_\_\_\_\_ ft. MSL or \_\_\_\_\_ ft.

2. USCS classification of soil near screen:  
GP  GM  GC  GW  SW  SP   
SM  SC  ML  MH  CL  CH   
Bedrock

3. Sieve analysis attached?  Yes  No

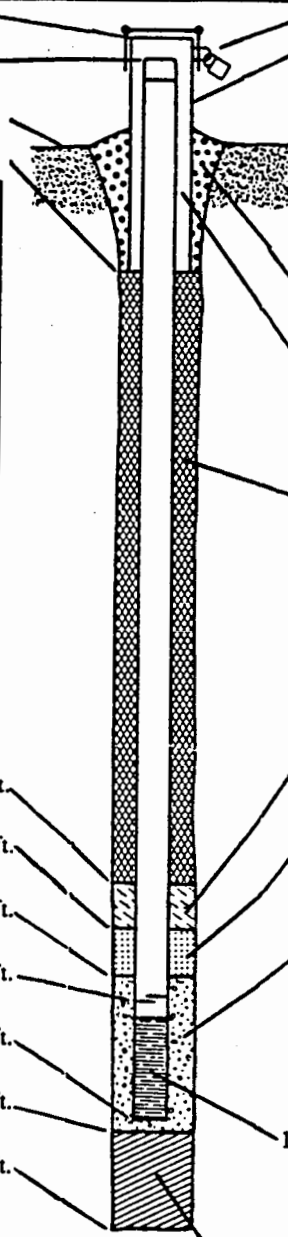
14. Drilling method used: Rotary  50  
Hollow Stem Auger  41  
Other

15. Drilling fluid used: Water  02 Air  01  
Drilling Mud  03 None  99

16. Drilling additives used?  Yes  No

Describe \_\_\_\_\_

17. Source of water (attach analysis): \_\_\_\_\_



1. Cap and lock?  Yes  No

2. Protective cover pipe:  
a. Inside diameter: 8 in.  
b. Length: 1 ft.  
c. Material: Flushmount Steel  04  
Other

d. Additional protection?  Yes  No  
If yes, describe: \_\_\_\_\_

3. Surface seal: Bentonite  30  
Concrete  01  
Other

4. Material between well casing and protective pipe: Bentonite  30  
Filter Pack Annular space seal   
Other

5. Annular space seal:  
a. Granular Bentonite  33  
b. \_\_\_\_\_ Lbs/gal mud weight . . . Bentonite-sand slurry  35  
c. \_\_\_\_\_ Lbs/gal mud weight . . . . . Bentonite slurry  31  
d. \_\_\_\_\_ % Bentonite . . . . . Bentonite-cement grout  50  
e. \_\_\_\_\_ Ft<sup>3</sup> volume added for any of the above  
f. How installed: Tremie  01  
26 x 50 lb bag Tremie pumped  02  
Gravity  08

6. Bentonite seal:  
a. Bentonite granules  33  
b.  1/4 in.  3/8 in.  1/2 in. Bentonite pellets  32  
c. \_\_\_\_\_ Other

7. Fine sand material: Manufacturer, product name & mesh size  
a. BB #7 fine sand  
b. Volume added 1 x 50 lb bag ft<sup>3</sup>

8. Filter pack material: Manufacturer, product name and mesh size  
a. Lexsola Bag Red Flint #30  
b. Volume added \_\_\_\_\_ ft<sup>3</sup>

9. Well casing: Flush threaded PVC schedule 40  23  
Flush threaded PVC schedule 80  24  
Other

10. Screen material: PVC  
a. Screen type: Factory cut  11  
Continuous slot  01  
Other

b. Manufacturer \_\_\_\_\_  
c. Slot size: 0.010 in.  
d. Slotted length: 9.8 ft.

11. Backfill material (below filter pack): None  14  
26 x 50 lb Other

E. Bentonite seal, top \_\_\_\_\_ ft. MSL or \_\_\_\_\_ ft.

- Fine sand, top 98.2 ft. MSL or \_\_\_\_\_ ft.

G. Filter pack, top 100.1 ft. MSL or \_\_\_\_\_ ft.

H. Screen joint, top 105 ft. MSL or \_\_\_\_\_ ft.

Well bottom 115 ft. MSL or \_\_\_\_\_ ft.

J. Filter pack, bottom 1050 ft. MSL or \_\_\_\_\_ ft.

K. Borehole, bottom 120.0 ft. MSL or \_\_\_\_\_ ft.

L. Borehole, diameter 6 in.

M. O.D. well casing 2.0 in.

N. I.D. well casing 1.4 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature \_\_\_\_\_ Firm Earth Tech

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Ad. Code. In accordance with ch. 144, Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

Route to: Solid Waste  Haz. Waste  Wastewater   
Env. Response & Repair  Underground Tanks  Other  \_\_\_\_\_

Facility/Project Name \_\_\_\_\_ County Name \_\_\_\_\_ Well Name \_\_\_\_\_

Facility License, Permit or Monitoring Number \_\_\_\_\_ County Code \_\_\_\_\_ Wis. Unique Well Number \_\_\_\_\_ DNR Well Number \_\_\_\_\_

<p>1. Can this well be purged dry? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Well development method</p> <p>surged with bailer and bailed <input type="checkbox"/> 41</p> <p>surged with bailer and pumped <input type="checkbox"/> 61</p> <p>surged with block and bailed <input type="checkbox"/> 42</p> <p>surged with block and pumped <input type="checkbox"/> 62</p> <p>surged with block, bailed and pumped <input type="checkbox"/> 70</p> <p>compressed air <input type="checkbox"/> 20</p> <p>bailed only <input type="checkbox"/> 10</p> <p>pumped only <input type="checkbox"/> 51</p> <p>pumped slowly <input type="checkbox"/> 50</p> <p>Other _____ <input type="checkbox"/> _____</p> <p>3. Time spent developing well _____ min.</p> <p>4. Depth of well (from top of well casing) _____ ft.</p> <p>5. Inside diameter of well _____ in.</p> <p>6. Volume of water in filter pack and well casing _____ gal.</p> <p>7. Volume of water removed from well _____ gal.</p> <p>8. Volume of water added (if any) _____ gal.</p> <p>9. Source of water added _____</p> <p>10. Analysis performed on water added? <input type="checkbox"/> Yes <input type="checkbox"/> No (If yes, attach results)</p>	<table border="1"> <thead> <tr> <th></th> <th>Before Development</th> <th>After Development</th> </tr> </thead> <tbody> <tr> <td>11. Depth to Water (from top of well casing)</td> <td>a. _____ ft.</td> <td>_____ ft.</td> </tr> <tr> <td>Date</td> <td>b. ____/____/____ m m d d y y</td> <td>____/____/____ m m d d y y</td> </tr> <tr> <td>Time</td> <td>c. ____:____ <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.</td> <td>____:____ <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.</td> </tr> <tr> <td>12. Sediment in well bottom</td> <td>_____ inches</td> <td>_____ inches</td> </tr> <tr> <td>13. Water clarity</td> <td>Clear <input type="checkbox"/> 10 Turbid <input type="checkbox"/> 15 (Describe) _____</td> <td>Clear <input type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe) _____</td> </tr> <tr> <td colspan="3">Fill in if drilling fluids were used and well is at solid waste facility:</td> </tr> <tr> <td>14. Total suspended solids</td> <td>_____ mg/l</td> <td>_____ mg/l</td> </tr> <tr> <td>15. COD</td> <td>_____ mg/l</td> <td>_____ mg/l</td> </tr> </tbody> </table>		Before Development	After Development	11. Depth to Water (from top of well casing)	a. _____ ft.	_____ ft.	Date	b. ____/____/____ m m d d y y	____/____/____ m m d d y y	Time	c. ____:____ <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.	____:____ <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.	12. Sediment in well bottom	_____ inches	_____ inches	13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input type="checkbox"/> 15 (Describe) _____	Clear <input type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe) _____	Fill in if drilling fluids were used and well is at solid waste facility:			14. Total suspended solids	_____ mg/l	_____ mg/l	15. COD	_____ mg/l	_____ mg/l
	Before Development	After Development																										
11. Depth to Water (from top of well casing)	a. _____ ft.	_____ ft.																										
Date	b. ____/____/____ m m d d y y	____/____/____ m m d d y y																										
Time	c. ____:____ <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.	____:____ <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.																										
12. Sediment in well bottom	_____ inches	_____ inches																										
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input type="checkbox"/> 15 (Describe) _____	Clear <input type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe) _____																										
Fill in if drilling fluids were used and well is at solid waste facility:																												
14. Total suspended solids	_____ mg/l	_____ mg/l																										
15. COD	_____ mg/l	_____ mg/l																										

16. Additional comments on development: \_\_\_\_\_

<p>Well developed by: Person's Name and Firm</p> <p>Name: _____</p> <p>Firm: _____</p>	<p>I hereby certify that the above information is true and correct to the best of my knowledge.</p> <p>Signature: _____</p> <p>Print Initials: _____</p> <p>Firm: _____</p>
--	---

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.











GW GP GM GC SW SP SM SC ML MH CL CH OL OH

PERCENTAGES OF GRAVEL, SAND AND FINES MAY BE STATED IN TERMS INDICATING A RANGE OF PERCENTAGES AS FOLLOWS:

TRACE PARTICLES ARE PRESENT BUT EST. TO BE LESS THAN 5%

FEW 5 TO 10%

LITTLE 15 TO 25%

SOME 30 TO 45%

MOSTLY 50 TO 100%

**CRITERIA FOR DESCRIBING ANGULARITY OF COARSE-GRAINED PARTICLES**

**DESCRIPTION CRITERIA**

ANGULAR PARTICLES HAVE SHARP EDGES AND RELATIVELY PLANE SIDES WITH UNPOLISHED SURFACES

SUBANGULAR PARTICLES ARE SIMILAR TO ANGULAR DESCRIPTION BUT HAVE ROUNDED EDGES

SUBROUNDED PARTICLES HAVE NEARLY PLANE SIDES BUT HAVE WELL-ROUNDED CORNERS AND EDGES

ROUNDED PARTICLES HAVE SMOOTHLY CURVED SIDES AND NO EDGES

**ADDITIONAL DRILLING DATA**

SPLIT TUBE SIZE \_\_\_\_\_ ID \_\_\_\_\_ OD

HAMMER WT. \_\_\_\_\_ lb \_\_\_\_\_ in drop

THIN WALL TUBE SIZE \_\_\_\_\_ OD

CASING USED \_\_\_\_\_ LF \_\_\_\_\_ Dia.

DRILL ROD SIZE \_\_\_\_\_

DRILL BIT TYPE \_\_\_\_\_ (a) \_\_\_\_\_ (b)

DRILL BIT SIZE \_\_\_\_\_ (a) \_\_\_\_\_ (b)

AUGER TYPE \_\_\_\_\_ OD

HOLLOW STEM AUGER \_\_\_\_\_ ID

**STANDARD PENETRATION TEST CONSISTENCY OR DENSITY FINE GRAINED**

VERY SOFT (VS) 0-2

SOFT (S) 3-4

MEDIUM (M) 5-8

STIFF (ST) 9-16

VERY STIFF (VST) 17-30

HARD (H) >30

**COARSE GRAINED**

VERY LOOSE (VL) 0-4

LOOSE (L) 5-9

MEDIUM DENSE (MD) 10-29

DENSE (D) 30-49

VERY DENSE (VD) >50

**CRITERIA FOR DESCRIBING MOISTURE CONDITION**

**DESCRIPTION CRITERIA**

DRY ABSENCE OF MOISTURE, DUSTY, DRY TO THE TOUCH

MOIST DAMP BUT NO VISIBLE WATER

WET VISIBLE FREE WATER, USUALLY SOIL IS BELOW WATER TABLE

**SOIL DESCRIPTION REQUIREMENTS (TO BE LISTED IN THIS ORDER WITH EACH ITEM SEPARATED BY A COMMA)**

- 1 CONSISTENCY OR DENSITY (BASED ON N VALUE)
- 2 MUNSELL COLOR DESCRIPTION
- 3 MUNSELL HUE/CHROMA
- 4 USCS GROUP NAME (ALL CAPS)
- 5 GRAIN SIZE RANGE (FOR SAND & GRAVEL)
- 6 ROUNDNESS OR ANGULARITY (SAND & GRAVEL)
- 7 MOISTURE
- 8 PLASTICITY
- 9 COHESIVENESS
- 10 DISTINCTIVE FEATURES
- 11 DEPOSITIONAL ENVIRONMENT
- 12 FORMATION/MEMBER (OPTIONAL, IF KNOWN-ALL CAPS)

NOTE: INCLUDE ESTIMATE OF GRAVEL, SAND, AND SILT AND CLAY PERCENTAGES IN LOWER RIGHT CORNER OF DESCRIPTION INTERVAL (SEE EXAMPLE BELOW)

**CRITERIA FOR DESCRIBING STRUCTURE**

STRATIFIED ALTERNATING LAYERS OF VARYING MATERIAL OR COLOR WITH LAYERS AT LEAST 6MM THICK; NOTE THICKNESS

LAMINATED ALTERNATING LAYERS OF VARYING MATERIAL OR COLOR WITH THE LAYERS LESS THAN 6MM THICK; NOTE THICKNESS

FISSURED BREAKS ALONG DEFINITE PLANES OF FRACTURE WITH LITTLE RESISTANCE TO FRACTURING

SLICKEN-SIDED FRACTURE PLANES APPEAR POLISHED OR GLOSSY, SOMETIMES STRIATED

BLOCKY COHESIVE SOIL THAT CAN BE BROKEN DOWN INTO SMALL ANGULAR LUMPS WHICH RESIST FURTHER BREAKDOWN

LENSED INCLUSION OF SMALL POCKETS OF DIFFERENT SOILS SUCH AS SMALL LENSES OF SAND SCATTERED THROUGH A MASS OF CLAY; NOTE THICKNESS

HOMOGENEOUS SAME COLOR AND APPEARANCE THROUGHOUT

**CRITERIA FOR DESCRIBING PLASTICITY**

NON-PLASTIC A 1/2-IN (3MM) THREAD CANNOT BE ROLLED AT ANY WATER CONTENT

LOW THE THREAD CAN BARELY BE ROLLED AND THE LUMP CANNOT BE FORMED WHEN DRIER THAN THE PLASTIC LIMIT

MEDIUM THE THREAD IS EASY TO ROLL AND NOT MUCH TIME IS REQUIRED TO REACH THE PLASTIC LIMIT. THE THREAD CANNOT BE REROLLED AFTER REACHING THE PLASTIC LIMIT. THE LUMP CRUMBLES WHEN DRIER THAN THE PLASTIC LIMIT

HIGH IT TAKES CONSIDERABLE TIME ROLLING AND KNEADING TO REACH THE PLASTIC LIMIT. THE THREAD CAN BE REROLLED SEVERAL TIMES AFTER REACHING THE PLASTIC LIMIT. THE LUMP CAN BE FORMED WITHOUT CRUMBLING WHEN DRIER THAN THE PLASTIC LIMIT

**TYPICAL HOLLOW-STEM AUGER SIZES WITH SLIP-FIT, BOX AND PIN CONNECTIONS (AFTER CENTRAL MINE EQUIPMENT CO. 1987)**

HOLLOW-STEM INSIDE DIAMETER (IN.)	FLIGHTING DIAMETER (IN.)	AUGER HEAD CUTTING DIAMETER (IN.)
2 1/4	3 5/8	6 1/4
2 3/4	6 1/8	8 3/4
3 1/4	6 5/8	7 1/4
3 3/4	7 1/8	7 3/4
4 1/4	7 5/8	8 1/4
6 1/4	9 5/8	10 1/4
8 1/4	11 5/8	12 1/2

**SUGGESTED PROCEDURES FOR ESTIMATING THE PERCENTAGES OF GRAVEL, SAND, AND FINES IN A SOIL SAMPLE**

**JAR METHOD** - THE RELATIVE PERCENTAGE OF COARSE-AND FINE-GRAINED MATERIAL MAY BE ESTIMATED BY THOROUGHLY SHAKING A MIXTURE OF SOIL AND WATER IN A TEST TUBE OR JAR, AND THEN ALLOWING THE MIXTURE TO SETTLE. THE COARSE PARTICLES WILL FALL TO THE BOTTOM AND SUCCESSIVELY FINER PARTICLES WILL BE DEPOSITED WITH INCREASING TIME; THE SAND SIZES WILL FALL OUT OF SUSPENSION IN 20 TO 30 SEC. THE RELATIVE PROPORTIONS CAN BE ESTIMATED FROM THE RELATIVE VOLUME OF EACH SIZE SEPARATE. THIS METHOD SHOULD BE CORRELATED TO PARTICLE-SIZE LABORATORY DETERMINATIONS

**VISUAL METHOD** - MENTALLY VISUALIZE THE GRAVEL SIZE PARTICLES PLACED IN A SACK (OR OTHER CONTAINER) OR SACKS, THEN DO THE SAME WITH THE SAND SIZE PARTICLES AND THE FINES. THEN MENTALLY COMPARE THE NUMBER OF SACKS TO ESTIMATE THE PERCENTAGE OF PLUS NO. 4 SIEVE SIZE AND MINUS NO. 4 SIEVE SIZE PRESENT. THE PERCENTAGES OF SAND AND FINES IN THE MINUS SIEVE SIZE NO. 4 MATERIAL CAN THEN BE ESTIMATED FROM THE WASH TEST (X4.3)

**WASH TEST** - FOR RELATIVE PERCENTAGE OF SAND AND FINES. SELECT AND MOISTEN ENOUGH MINUS NO. 4 SIEVE SIZE MATERIAL TO FORM A 1-IN (25-MM) CUBE OF SOIL. CUT THE CUBE IN HALF, SET ONE HALF TO THE SIDE, AND PLACE THE OTHER HALF IN A SMALL DISH. WASH AND DECANT THE FINES OUT OF THE MATERIAL IN THE DISH UNTIL THE WASH WATER IS CLEAR AND THEN COMPARE THE TWO SAMPLES AND ESTIMATE THE PERCENTAGE OF SAND AND FINES. REMEMBER THAT THE PERCENTAGE IS BASED ON WEIGHT, NOT VOLUME. HOWEVER THE VOLUME COMPARISON WILL PROVIDE A REASONABLE INDICATION OF GRAIN SIZE PERCENTAGES. X4.3.1 WHILE WASHING, IT MAY BE NECESSARY TO BREAK DOWN LUMPS OF FINES WITH THE FINGER TO GET THE CORRECT PERCENTAGES

**IDENTIFICATION OF INORGANIC FINE-GRAINED SOILS FROM MANUAL TESTS**

SOIL SYMBOL	DRY STRENGTH	DILATANCY	TOUGHNESS
ML	NONE TO LOW	SLOW TO RAPID	LOW OR THREAD CANNOT BE FORMED
CL	MEDIUM TO HIGH	NONE TO SLOW	MEDIUM
MH	LOW TO MEDIUM	NONE TO SLOW	LOW TO MEDIUM
CH	HIGH TO VERTHIGH	NONE	HIGH

**VOLUME OF SCHEDULE 40 PVC PIPE**

DIAMETER	O.D.	I.D.	VOLUME GAL/LINEAR FT.
1 1/4"	1.66	1.38	0.08
2"	2.37	2.06	0.17
3"	3.50	3.06	0.38
4"	4.50	4.02	0.66
6"	6.62	6.06	1.50
8"	8.62	7.88	2.60
12"	12.75	11.93	5.81

**VOLUME OF OPEN BOREHOLE AND ANNULUS BETWEEN CASING AND HOLE**

HOLE DIAMETER	VOLUME LIN. FT.		CASING DIA.	VOLUME LIN. FT.		LBS/LIN. FT. SAND PELLETS
	GAL.	CU. FT.		GAL.	CU. FT.	
7 1/4"	2.14	.29	1 1/4"	2.03	0.27	27
7 1/4"	2.14	.29	2"	1.91	0.26	26
7 3/4"	2.45	.33	2"	2.22	0.30	30
8 1/4"	2.78	.37	2"	2.55	0.34	34
10 1/4"	4.29	.57	2"	4.06	0.54	54
8 1/4"	2.78	.37	3"	2.28	0.30	30
10 1/4"	4.29	.57	3"	3.79	0.51	51
12 1/4"	6.13	.82	3"	5.62	0.75	75
8 1/4"	2.78	.37	4"	1.95	0.26	26
10 1/4"	4.29	.57	4"	3.46	0.46	46
12 1/4"	6.13	.82	4"	5.30	0.71	71
12 1/4"	6.13	.82	6"	4.33	0.58	58

**MISCELLANEOUS DATA**

1 CU. FT. = 7.5 GAL. (APPROX)

1 GALLON = .134 CU. FT. (APPROX)

1 CU. YD. = 202 GAL. (APPROX)

1 GALLON = .005 CU. YD. (APPROX)

1 GALLON OF WATER = 8.34 LBS. (APPROX)

1 CU. FT. OF FRESH WATER = 62.4 LBS. (APPROX)

PSI = .434 X THE HEIGHT OF THE WATER COLUMN IN FT. FEET OF HEAD = PSI X 2.304

1 BARREL = 42 GALLONS (APPROX)

1 SACK OF SAND = 1 CU. FT AND APPROX 100 LBS.

1 SACK OF CEMENT = 1 CU. FT. AND APPROX 96 LBS.

1 PAIL OF BENTONITE PELLETS = 50 LBS. (APPROX)

**EXAMPLE:**

DEPTH IN FEET	SAMPLING DATA						GRAPHIC LOG	USCS
	B	N	A	R	NO.	T		
3					1	SS	SP	
4								
4							SP	
6								

**SOIL DESCRIPTION AND DRILLING COMMENTS**

Loose, Yellowish brown, (10YR 5/6), POORLY GRADED SAND WITH GRAVEL, fine to medium, subangular to subrounded, dry, iron-stained, LACUSTRINE

15/85/00

FIELD BORING LOG  
W/ATMOSPHERIC MONITORING

SITE: GILBERTON

PROJECT NO. \_\_\_\_\_

WATER LEVEL READINGS

DRILLING METHOD: 0-47.5 - 4 1/4" ID  
HSA 4.75 47.5' - EX  
6" AIR PENNY. Casing set to 47.5'  
 LOG BY: J. KOOSICK  
 FIRM/DRILLER: BOET LONGWATER T. SCHMIDT  
 PHYSICAL SETTING: MID. of road, residential  
area near top of hill

GROUND SURFACE ELEV.: \_\_\_\_\_  
 COORDINATE TYPE: (8B) 287A  
 NORTH: \_\_\_\_\_  
 EAST: \_\_\_\_\_  
 DATE/TIME START: 3/17/00  
 DATE/TIME COMPLETE: 3/17/00  
 WELL INSTALLATION DATE: \_\_\_\_\_

ABANDONMENT DATE: 3/17/00  
 ABANDONMENT METHOD: plug cement

DEPTH IN FEET	GRAPHIC LOG	USCS	SOIL DESCRIPTION AND DRILLING COMMENTS	SAMPLING DATA				AIR MONITORING					
				B	N	A	R	SAMPLE		TIME	PID	LEL	
								TYPE	INTERVAL				
			0-2" topsoil										
			2"-25" yellowish brown silty sandy clay with gravel ML/SC moist, low plastic, cohesive										
20			25"-40" grayish brown silty sandy lean clay sp. moist, med to low plastic, cohesive, trace gravel										
40			40" - Brown to grayish brown silty sandy clay sp. wet, non plastic, cohesive, top of bedrock at 46.5 feet. Boulder at 46.5 feet, switch to air drill because thought it was bedrock, auger refusal										
100			Brown silty CL clay moist, med plastic, cohesive										
			TOP of Bedrock at 108 feet Grayish orange Pale yellowish orange Dolomite, Greenstone, very porous										





GW	GP	GM	GC	SW	SP	SM	SC	ML	MH	CL	CH	OL	OH
<p>PERCENTAGES OF GRAVEL, SAND AND FINES MAY BE STATED IN TERMS INDICATING A RANGE OF PERCENTAGES AS FOLLOWS:</p> <p>TRACE PARTICLES ARE PRESENT BUT EST. TO BE LESS THAN 5%</p> <p>FEW 5 TO 10%</p> <p>LITTLE 15 TO 25%</p> <p>SOME 30 TO 45%</p> <p>MOSTLY 50 TO 100%</p>				<p>CRITERIA FOR DESCRIBING ANGULARITY OF COARSE-GRAINED PARTICLES</p> <p><b>DESCRIPTION</b>                      <b>CRITERIA</b></p> <p>ANGULAR                      PARTICLES HAVE SHARP EDGES AND RELATIVELY PLANE SIDES WITH UNPOLISHED SURFACES</p> <p>SUBANGULAR                      PARTICLES ARE SIMILAR TO ANGULAR DESCRIPTION BUT HAVE ROUNDED EDGES</p> <p>SUBROUNDED                      PARTICLES HAVE NEARLY PLANE SIDES BUT HAVE WELL-ROUNDED CORNERS AND EDGES</p> <p>ROUNDED                      PARTICLES HAVE SMOOTHLY CURVED SIDES AND NO EDGES</p>				<p><b>ADDITIONAL DRILLING DATA</b></p> <p>SPLIT TUBE SIZE _____ ID _____ OD</p> <p>HAMMER WT. _____ lb _____ In drop</p> <p>THIN WALL TUBE SIZE _____ OD</p> <p>CASING USED _____ LF _____ Dia.</p> <p>DRILL ROD SIZE _____</p> <p>DRILL BIT TYPE _____ (a) _____ (b)</p> <p>DRILL BIT SIZE _____ (a) _____ (b)</p> <p>AUGER TYPE _____ OD</p> <p>HOLLOW STEM AUGER _____ ID</p>					

**STANDARD PENETRATION TEST CONSISTENCY OR DENSITY FINE GRAINED**

VERY SOFT (VS)	0-2
SOFT (S)	3-4
MEDIUM (M)	5-8
STIFF (ST)	9-16
VERY STIFF (VST)	17-30
HARD (H)	>30

**COARSE GRAINED**

VERY LOOSE (VL)	0-4
LOOSE (L)	5-9
MEDIUM DENSE (MD)	10-29
DENSE (D)	30-49
VERY DENSE (VD)	>50

**CRITERIA FOR DESCRIBING MOISTURE CONDITION**

**DESCRIPTION**                      **CRITERIA**

DRY                      ABSENCE OF MOISTURE, DUSTY, DRY TO THE TOUCH

MOIST                      DAMP BUT NO VISIBLE WATER

WET                      VISIBLE FREE WATER, USUALLY SOIL IS BELOW WATER TABLE

**SOIL DESCRIPTION REQUIREMENTS**  
 (TO BE LISTED IN THIS ORDER WITH EACH ITEM SEPERATED BY A COMMA)

- 1 CONSISTENCY OR DENSITY (BASED ON N VALUE)
- 2 MUNSSELL COLOR DESCRIPTION
- 3 MUNSSELL HUE/CHROMA
- 4 USCS GROUP NAME (ALL CAPS)
- 5 GRAIN SIZE RANGE (FOR SAND & GRAVEL)
- 6 ROUNDNESS OR ANGULARITY (SAND & GRAVEL)
- 7 MOISTURE
- 8 PLASTICITY
- 9 COHESIVENESS
- 10 DISTINCTIVE FEATURES
- 11 DEPOSITIONAL ENVIRONMENT
- 12 FORMATION/MEMBER (OPTIONAL, IF KNOWN-ALL CAPS)

NOTE: INCLUDE ESTIMATE OF GRAVEL, SAND, AND SILT AND CLAY PERCENTAGES IN LOWER RIGHT CORNER OF DESCRIPTION INTERVAL (SEE EXAMPLE BELOW)

**CRITERIA FOR DESCRIBING STRUCTURE**

STRATIFIED                      ALTERNATING LAYERS OF VARYING MATERIAL OR COLOR WITH LAYERS AT LEAST 6MM THICK; NOTE THICKNESS

LAMINATED                      ALTERNATING LAYERS OF VARYING MATERIAL OR COLOR WITH THE LAYERS LESS THAN 6MM THICK; NOTE THICKNESS

FISSURED                      BREAKS ALONG DEFINITE PLANES OF FRACTURE WITH LITTLE RESISTANCE TO FRACTURING

SLICKEN-SIDED                      FRACTURE PLANES APPEAR POLISHED OR GLOSSY, SOMETIMES STRIATED

BLOCKY                      COHESIVE SOIL THAT CAN BE BROKEN DOWN INTO SMALL ANGULAR LUMPS WHICH RESIST FURTHER BREAKDOWN

LENSED                      INCLUSION OF SMALL POCKETS OF DIFFERENT SOILS SUCH AS SMALL LENSES OF SAND SCATTERED THROUGH A MASS OF CLAY; NOTE THICKNESS

HOMOGENEOUS                      SAME COLOR AND APPEARANCE THROUGHOUT

**CRITERIA FOR DESCRIBING PLASTICITY**

NON-PLASTIC                      A 1/2-IN (3MM) THREAD CANNOT BE ROLLED AT ANY WATER CONTENT

LOW                      THE THREAD CAN BARELY BE ROLLED AND THE LUMP CANNOT BE FORMED WHEN DRIER THAN THE PLASTIC LIMIT

MEDIUM                      THE THREAD IS EASY TO ROLL AND NOT MUCH TIME IS REQUIRED TO REACH THE PLASTIC LIMIT. THE THREAD CANNOT BE REROLLED AFTER REACHING THE PLASTIC LIMIT. THE LUMP CRUMBLES WHEN DRIER THAN THE PLASTIC LIMIT

HIGH                      IT TAKES CONSIDERABLE TIME ROLLING AND KNEADING TO REACH THE PLASTIC LIMIT. THE THREAD CAN BE REROLLED SEVERAL TIMES AFTER REACHING THE PLASTIC LIMIT. THE LUMP CAN BE FORMED WITHOUT CRUMBLING WHEN DRIER THAN THE PLASTIC LIMIT

**TYPICAL HOLLOW-STEM AUGER SIZES WITH SLIP-FIT, BOX AND PIN CONNECTIONS (AFTER CENTRAL MINE EQUIPMENT CO. 1967)**

HOLLOW-STEM INSIDE DIAMETER (IN.)	FLIGHTING DIAMETER (IN.)	AUGER HEAD CUTTING DIAMETER (IN.)
2 1/4	5 5/8	6 1/4
2 3/4	6 1/8	8 3/4
3 1/4	6 5/8	7 1/4
3 3/4	7 1/8	7 3/4
4 1/4	7 5/8	8 1/4
6 1/4	9 3/8	10 1/4
8 1/4	11 3/8	12 1/2

**SUGGESTED PROCEDURES FOR ESTIMATING THE PERCENTAGES OF GRAVEL, SAND, AND FINES IN A SOIL SAMPLE**

**JAR METHOD** - THE RELATIVE PERCENTAGE OF COARSE-AND FINE-GRAINED MATERIAL MAY BE ESTIMATED BY THOROUGHLY SHAKING A MIXTURE OF SOIL AND WATER IN A TEST TUBE OR JAR, AND THEN ALLOWING THE MIXTURE TO SETTLE. THE COARSE PARTICLES WILL FALL TO THE BOTTOM AND SUCCESSIVELY FINER PARTICLES WILL BE DEPOSITED WITH INCREASING TIME. THE SAND SIZES WILL FALL OUT OF SUSPENSION IN 20 TO 30 SEC. THE RELATIVE PROPORTIONS CAN BE ESTIMATED FROM THE RELATIVE VOLUME OF EACH SIZE SEPARATE. THIS METHOD SHOULD BE CORRELATED TO PARTICLE-SIZE LABORATORY DETERMINATIONS

**VISUAL METHOD** - MENTALLY VISUALIZE THE GRAVEL SIZE PARTICLES PLACED IN A SACK (OR OTHER CONTAINER) OR SACKS, THEN DO THE SAME WITH THE SAND SIZE PARTICLES AND THE FINES. THEN MENTALLY COMPARE THE NUMBER OF SACKS TO ESTIMATE THE PERCENTAGE OF PLUS NO. 4 SIEVE SIZE AND MINUS NO. 4 SIEVE SIZE PRESENT. THE PERCENTAGES OF SAND AND FINES IN THE MINUS SIEVE SIZE NO. 4 MATERIAL CAN THEN BE ESTIMATED FROM THE WASH TEST (X4.3)

**WASH TEST** - FOR RELATIVE PERCENTAGE OF SAND AND FINES. SELECT AND MOISTEN ENOUGH MINUS NO. 4 SIEVE SIZE MATERIAL TO FORM A 1-IN (25-MM) CUBE OF SOIL. CUT THE CUBE IN HALF, SET ONE HALF TO THE SIDE, AND PLACE THE OTHER HALF IN A SMALL DISH. WASH AND DECANT THE FINES OUT OF THE MATERIAL IN THE DISH UNTIL THE WASH WATER IS CLEAR AND THEN COMPARE THE TWO SAMPLES AND ESTIMATE THE PERCENTAGE OF SAND AND FINES. REMEMBER THAT THE PERCENTAGE IS BASED ON WEIGHT, NOT VOLUME. HOWEVER THE VOLUME COMPARISON WILL PROVIDE A REASONABLE INDICATION OF GRAIN SIZE PERCENTAGES. X4.3.1 WHILE WASHING, IT MAY BE NECESSARY TO BREAK DOWN LUMPS OF FINES WITH THE FINGER TO GET THE CORRECT PERCENTAGES

**IDENTIFICATION OF INORGANIC FINE-GRADED SOILS FROM MANUAL TESTS**

SOIL SYMBOL	DRY STRENGTH	DILATANCY	TOUGHNESS
ML	NONE TO LOW	SLOW TO RAPID	LOW OR THREAD CANNOT BE FORMED
CL	MEDIUM TO HIGH	NONE TO SLOW	MEDIUM
MH	LOW TO MEDIUM	NONE TO SLOW	LOW TO MEDIUM
CH	HIGH TO VERYHIGH	NONE	HIGH

**VOLUME OF SCHEDULE 40 PVC PIPE**

DIAMETER	O.D.	I.D.	VOLUME GAL./LINEAR FT.
1 1/4"	1.66	1.38	0.08
2"	2.37	2.06	0.17
3"	3.50	3.06	0.38
4"	4.50	4.02	0.66
6"	6.62	6.06	1.50
8"	8.62	7.98	2.60
12"	12.75	11.93	5.81

**VOLUME OF OPEN BOREHOLE AND ANNULUS BETWEEN CASING AND HOLE**

HOLE DIAMETER	VOLUME LIN. FT. GAL.	CASING DIA.	VOLUME LIN. FT. GAL.	LBS/LIN. FT. SAND PELLETS		
7 1/4"	2.14	1 1/4"	2.03	0.27	27	21
7 1/4"	2.14	2"	1.91	0.26	26	20
7 3/4"	2.45	2"	2.22	0.30	30	23
8 1/4"	2.78	2"	2.55	0.34	34	26
10 1/4"	4.29	2"	4.06	0.54	54	41
8 1/4"	2.78	3"	2.29	0.30	30	23
10 1/4"	4.29	3"	3.79	0.51	51	38
12 1/4"	6.13	3"	5.62	0.75	75	57
8 1/4"	2.78	4"	1.95	0.26	26	20
10 1/4"	4.29	4"	3.46	0.46	46	35
12 1/4"	6.13	4"	5.30	0.71	71	54
12 1/4"	6.13	6"	4.33	0.58	58	44

**MISCELLANEOUS DATA**

1 CU. FT. = 7.5 GAL. (APPROX)

1 GALLON = .134 CU. FT. (APPROX)

1 CU. YD. = 202 GAL. (APPROX)

1 GALLON = .003 CU. YD. (APPROX)

1 GALLON OF WATER = 8.34 LBS. (APPROX)

1 CU. FT. OF FRESH WATER = 62.4 LBS. (APPROX)

PSI = .434 X THE HEIGHT OF THE WATER COLUMN IN FT.

FEET OF HEAD = PSI X 2.304

1 BARREL = 42 GALLONS (APPROX)

1 SACK OF SAND = 1 CU. FT. AND APPROX 100 LBS.

1 SACK OF CEMENT = 1 CU. FT. AND APPROX 96 LBS.

1 PAIL OF BENTONITE PELLETS = 30 LBS. (APPROX)

**EXAMPLE:**

DEPTH IN FEET	SAMPLING DATA						GRAPHIC LOG	USCS	SOIL DESCRIPTION AND DRILLING COMMENTS
	B	N	A	R	NO.	T			
3					1	SS		SP	Loose, Yellowish brown, (10YR 5/6), POORLY GRADED SAND WITH GRAVEL, fine to medium, subangular to subrounded,
4									
1									dry, iron-stained, LACUSTRINE
2									

15/85/00





**PERCENTAGES OF GRAVEL, SAND AND FINES MAY BE STATED IN TERMS INDICATING A RANGE OF PERCENTAGES AS FOLLOWS:**

TRACE PARTICLES ARE PRESENT BUT EST. TO BE LESS THAN 5%  
 FEW 5 TO 10%  
 LITTLE 15 TO 25%  
 SOME 30 TO 45%  
 MOSTLY 50 TO 100%

**CRITERIA FOR DESCRIBING ANGULARITY OF COARSE-GRAINED PARTICLES**

DESCRIPTION	CRITERIA
ANGULAR	PARTICLES HAVE SHARP EDGES AND RELATIVELY PLANE SIDES WITH UNPOLISHED SURFACES
SUBANGULAR	PARTICLES ARE SIMILAR TO ANGULAR DESCRIPTION BUT HAVE ROUNDED EDGES
SUBROUNDED	PARTICLES HAVE NEARLY PLANE SIDES BUT HAVE WELL-ROUNDED CORNERS AND EDGES
ROUNDED	PARTICLES HAVE SMOOTHLY CURVED SIDES AND NO EDGES

**ADDITIONAL DRILLING DATA**

SPLIT TUBE SIZE \_\_\_\_\_ ID \_\_\_\_\_ OD  
 HAMMER WT. \_\_\_\_\_ lb \_\_\_\_\_ in drop  
 THIN WALL TUBE SIZE \_\_\_\_\_ OD  
 CASING USED \_\_\_\_\_ LF \_\_\_\_\_ Dia.  
 DRILL ROD SIZE \_\_\_\_\_  
 DRILL BIT TYPE \_\_\_\_\_ (a) \_\_\_\_\_ (b)  
 DRILL BIT SIZE \_\_\_\_\_ (a) \_\_\_\_\_ (b)  
 AUGER TYPE \_\_\_\_\_ OD  
 HOLLOW STEM AUGER \_\_\_\_\_ ID

**STANDARD PENETRATION TEST CONSISTENCY OR DENSITY FINE GRAINED**

VERY SOFT (VS)	0-2
SOFT (S)	3-4
MEDIUM (M)	5-8
STIFF (ST)	9-16
VERY STIFF (VST)	17-30
HARD (H)	>30

**COARSE GRAINED**

VERY LOOSE (VL)	0-4
LOOSE (L)	5-9
MEDIUM DENSE (MD)	10-29
DENSE (D)	30-49
VERY DENSE (VD)	>50

**CRITERIA FOR DESCRIBING MOISTURE CONDITION**

DESCRIPTION	CRITERIA
DRY	ABSENCE OF MOISTURE, DUSTY, DRY TO THE TOUCH
MOIST	DAMP BUT NO VISIBLE WATER
WET	VISIBLE FREE WATER, USUALLY SOIL IS BELOW WATER TABLE

**SOIL DESCRIPTION REQUIREMENTS (TO BE LISTED IN THIS ORDER WITH EACH ITEM SEPERATED BY A COMMA)**

- 1 CONSISTENCY OR DENSITY (BASED ON N VALUE)
- 2 MUNSELL COLOR DESCRIPTION
- 3 MUNSELL HUE/CHROMA
- 4 USCS GROUP NAME (ALL CAPS)
- 5 GRAIN SIZE RANGE (FOR SAND & GRAVEL)
- 6 ROUNDNESS OR ANGULARITY (SAND & GRAVEL)
- 7 MOISTURE
- 8 PLASTICITY
- 9 CONEVISS
- 10 DISTINCTIVE FEATURES
- 11 DEPOSITIONAL ENVIRONMENT
- 12 FORMATION/MEMBER (OPTIONAL, IF KNOWN-ALL CAPS)

NOTE: INCLUDE ESTIMATE OF GRAVEL, SAND, AND SILT AND CLAY PERCENTAGES IN LOWER RIGHT CORNER OF DESCRIPTION INTERVAL (SEE EXAMPLE BELOW)

**CRITERIA FOR DESCRIBING STRUCTURE**

STRATIFIED	ALTERNATING LAYERS OF VARYING MATERIAL OR COLOR WITH LAYERS AT LEAST 6MM THICK (NOTE THICKNESS)
LAMINATED	ALTERNATING LAYERS OF VARYING MATERIAL OR COLOR WITH THE LAYERS LESS THAN 6MM THICK; NOTE THICKNESS
FISSURED	BREAKS ALONG DEFINITE PLANES OF FRACTURE WITH LITTLE RESISTANCE TO FRACTURING
SLICKEN-SIDED	FRACTURE PLANES APPEAR POLISHED OR GLOSSY, SOMETIMES STRIATED
BLOCKY	COHESIVE SOIL THAT CAN BE BROKEN DOWN INTO SMALL ANGULAR LUMPS WHICH RESIST FURTHER BREAKDOWN
LENSED	INCLUSION OF SMALL POCKETS OF DIFFERENT SOILS SUCH AS SMALL LENSES OF SAND SCATTERED THROUGH A MASS OF CLAY; NOTE THICKNESS
HOMOGENEOUS	SAME COLOR AND APPEARANCE THROUGHOUT

**CRITERIA FOR DESCRIBING PLASTICITY**

NON-PLASTIC	A 1/2-IN (3MM) THREAD CANNOT BE ROLLED AT ANY WATER CONTENT
LOW	THE THREAD CAN BARELY BE ROLLED AND THE LUMP CANNOT BE FORMED WHEN DRIER THAN THE PLASTIC LIMIT
MEDIUM	THE THREAD IS EASY TO ROLL AND NOT MUCH TIME IS REQUIRED TO REACH THE PLASTIC LIMIT. THE THREAD CANNOT BE REROLLED AFTER REACHING THE PLASTIC LIMIT. THE LUMP CRUMBLES WHEN DRIER THAN THE PLASTIC LIMIT
HIGH	IT TAKES CONSIDERABLE TIME ROLLING AND KNEADING TO REACH THE PLASTIC LIMIT. THE THREAD CAN BE REROLLED SEVERAL TIMES AFTER REACHING THE PLASTIC LIMIT. THE LUMP CAN BE FORMED WITHOUT CRUMBLING WHEN DRIER THAN THE PLASTIC LIMIT

**TYPICAL HOLLOW-STEM AUGER SIZES WITH SLIP-FIT, BOX AND PIN CONNECTIONS (AFTER CENTRAL MINE EQUIPMENT CO. 1967)**

HOLLOW-STEM INSIDE DIAMETER (IN.)	FLIGHTING DIAMETER (IN.)	AUGER HEAD CUTTING DIAMETER (IN.)
2 1/4	5 5/8	6 1/4
2 3/4	6 1/8	8 3/4
3 1/4	6 5/8	7 1/4
3 3/4	7 1/8	7 3/4
4 1/4	7 5/8	8 1/4
6 1/4	9 5/8	10 1/4
8 1/4	11 5/8	12 1/2

**SUGGESTED PROCEDURES FOR ESTIMATING THE PERCENTAGES OF GRAVEL, SAND, AND FINES IN A SOIL SAMPLE**

**JAR METHOD - THE RELATIVE PERCENTAGE OF COARSE-AND FINE-GRAINED MATERIAL MAY BE ESTIMATED BY THOROUGHLY SHAKING A MIXTURE OF SOIL AND WATER IN A TEST TUBE OR JAR, AND THEN ALLOWING THE MIXTURE TO SETTLE. THE COARSE PARTICLES WILL FALL TO THE BOTTOM AND SUCCESSIVELY FINER PARTICLES WILL BE DEPOSITED WITH INCREASING TIME. THE SAND SIZES WILL FALL OUT OF SUSPENSION IN 20 TO 30 SEC. THE RELATIVE PROPORTIONS CAN BE ESTIMATED FROM THE RELATIVE VOLUME OF EACH SIZE SEPARATE. THIS METHOD SHOULD BE CORRELATED TO PARTICLE-SIZE LABORATORY DETERMINATIONS**

**VISUAL METHOD - MENTALLY VISUALIZE THE GRAVEL SIZE PARTICLES PLACED IN A SACK (OR OTHER CONTAINER) OR SACKS, THEN DO THE SAME WITH THE SAND SIZE PARTICLES AND THE FINES. THEN MENTALLY COMPARE THE NUMBER OF SACKS TO ESTIMATE THE PERCENTAGE OF PLUS NO. 4 SIEVE SIZE AND MINUS NO. 4 SIEVE SIZE PRESENT. THE PERCENTAGES OF SAND AND FINES IN THE MINUS SIEVE SIZE NO. 4 MATERIAL CAN THEN BE ESTIMATED FROM THE WASH TEST (X4.3)**

**WASH TEST - FOR RELATIVE PERCENTAGE OF SAND AND FINES. SELECT AND MOISTEN ENOUGH MINUS NO. 4 SIEVE SIZE MATERIAL TO FORM A 1-IN (25-MM) CUBE OF SOIL. CUT THE CUBE IN HALF, SET ONE HALF TO THE SIDE, AND PLACE THE OTHER HALF IN A SMALL DISH. WASH AND DECANT THE FINES OUT OF THE MATERIAL IN THE DISH UNTIL THE WASH WATER IS CLEAR AND THEN COMPARE THE TWO SAMPLES AND ESTIMATE THE PERCENTAGE OF SAND AND FINES. REMEMBER THAT THE PERCENTAGE IS BASED ON WEIGHT, NOT VOLUME. HOWEVER THE VOLUME COMPARISON WILL PROVIDE A REASONABLE INDICATION OF GRAIN SIZE PERCENTAGES. X4.3.1 WHILE WASHING, IT MAY BE NECESSARY TO BREAK DOWN LUMPS OF FINES WITH THE FINGER TO GET THE CORRECT PERCENTAGES**

**IDENTIFICATION OF INORGANIC FINE-GRAINED SOILS FROM MANUAL TESTS**

SOIL SYMBOL	DRY STRENGTH	DILATANCY	TOUGHNESS
ML	NONE TO LOW	SLOW TO RAPID	LOW OR THREAD CANNOT BE FORMED
CL	MEDIUM TO HIGH	NONE TO SLOW	MEDIUM
MH	LOW TO MEDIUM	NONE TO SLOW	LOW TO MEDIUM
CH	HIGH TO VERYHIGH	NONE	HIGH

**VOLUME OF SCHEDULE 40 PVC PIPE**

DIAMETER	O.D.	I.D.	VOLUME GAL./LINEAR FT.
1 1/4"	1.66	1.38	0.08
2"	2.37	2.06	0.17
3"	3.50	3.06	0.38
4"	4.50	4.02	0.66
6"	6.62	6.06	1.50
8"	8.62	7.88	2.60
12"	12.75	11.93	5.81

**VOLUME OF OPEN BOREHOLE AND ANNULUS BETWEEN CASING AND HOLE**

HOLE DIAMETER	VOLUME LIN. FT.		CASING DIA.	VOLUME LIN. FT.		LBS/LIN. FT. SAND PELLETS	
	GAL.	CU. FT.		GAL.	CU. FT.		
7 1/4"	2.14	.29	1 1/4"	2.03	0.27	27	21
7 1/4"	2.14	.29	2"	1.91	0.26	26	20
7 3/4"	2.45	.33	2"	2.22	0.30	30	23
8 1/4"	2.78	.37	2"	2.55	0.34	34	26
10 1/4"	4.29	.57	2"	4.06	0.54	54	41
8 1/4"	2.78	.37	3"	2.28	0.30	30	23
10 1/4"	4.29	.57	3"	3.79	0.51	51	38
12 1/4"	6.13	.82	3"	5.62	0.75	75	57
8 1/4"	2.78	.37	4"	1.95	0.26	26	20
10 1/4"	4.29	.57	4"	3.46	0.46	46	35
12 1/4"	6.13	.82	4"	5.30	0.71	71	54
12 1/4"	6.13	.82	6"	4.33	0.58	58	44

**MISCELLANEOUS DATA**

1 CU. FT. = 7.5 GAL. (APPROX)  
 1 GALLON = .134 CU. FT. (APPROX)  
 1 CU. YD. = 202 GAL. (APPROX)  
 1 GALLON = .005 CU. YD. (APPROX)  
 1 GALLON OF WATER = 8.34 LBS. (APPROX)  
 1 CU. FT. OF FRESH WATER = 62.4 LBS. (APPROX)  
 PSI = .434 X THE HEIGHT OF THE WATER COLUMN IN FT. FEET OF HEAD = PSI X 2.304  
 1 BARREL = 42 GALLONS (APPROX)  
 1 SACK OF SAND = 1 CU. FT. AND APPROX 100 LBS.  
 1 SACK OF CEMENT = 1 CU. FT. AND APPROX 96 LBS.  
 1 PAIL OF BENTONITE PELLETS = 50 LBS. (APPROX)

**EXAMPLE:**

DEPTH IN FEET	SAMPLING DATA						GRAPHIC LOG	USCS	SOIL DESCRIPTION AND DRILLING COMMENTS
	B	N	A	R	NO.	T			
3					1	SS		SP	Loose, Yellowish brown, (10YR 5/6), POORLY GRADED SAND WITH GRAVEL, fine to medium, subangular to subrounded, dry, iron-stained, LACUSTRINE
4									
6									

15/85/00

Well No. P8A

Date: 3/21/00  
Mon. Tues. Weds. (Thurs. Fri.)

Site: GRATION

Weather: Sunny 60° light S. wind Project No.: \_\_\_\_\_

Development Method: Pumped  Bailed  Other: \_\_\_\_\_

Pump Type: Keck Bailer Type: \_\_\_\_\_

Volume Calculation:  $(115.30 - 56.13) \times 0.16 + (30 \times 17 \times 1.24) = 9.5 + 6.3 \approx 16$

(D.T.B. - D.T.W. x vol./ft. = PVC/well volume) + (N\* x H\* x Annulus vol./ft.) = Total Well Volume

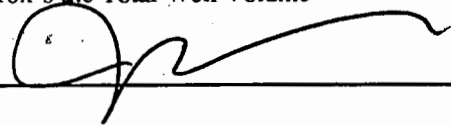
\* (Wells that cannot be purged dry, 10x's the Total Well Volume must be purged)  
(Wells that can be purged dry, slowly removing water, without surging until dry)

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Cond.	Temp.	DO Color	O/C/P Odor Y/N	TDS Turbidity
1202	56.13	115.30	-	7.27	6553	14.9		98	484.9
1215			15	6.75	745	12.1		179	520.3
				6.70	748.4	12.4		190	522.2
1259			60	6.81	745.8	12.8		175	520.2
1315			75	6.77	752.6	12.9		180	523.3
1330			110	6.71	746.9	12.2		186	524.0
1340			130	6.74	750.2	11.7		182	524.4
1350			145	6.68	752.1	12.0		199	527.1
1400			160	6.68	70.1	11.7	9.63	188	524.7

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Annulus	vol./ft.	Inside Diameter	vol./ft.
4"	0.42	1"	0.04
6"	1.24	1.25"	0.06
8"	2.38	2"	0.16
10"	3.85	4"	0.65

\*N = porosity of filter pack  
\*H = length of filter pack or length of saturated filter pack (water level within screen length)  
\* = A 30-minute surge and purge before the 10x's the Total Well Volume

Signature: 

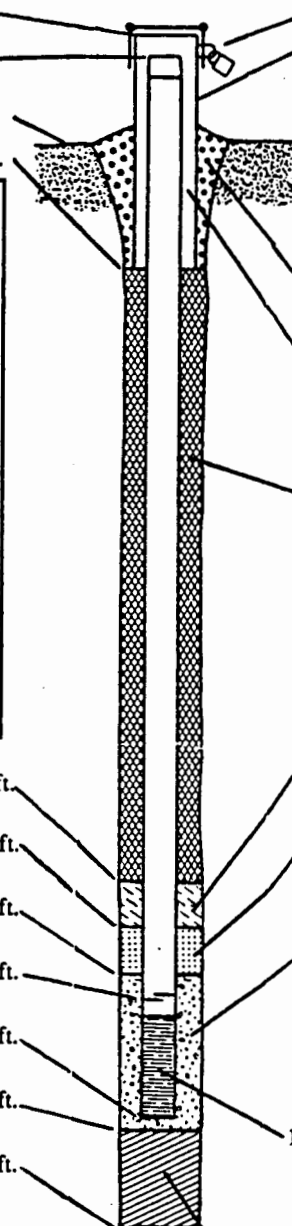
HNu/PPM	LEL/%	O2/%	H2S/PPM	CO/PPM

Facility/Project Name: GLAPTON  
 Facility License, Permit or Monitoring Number: \_\_\_\_\_  
 Type of Well: Water Table Observation Well  11  
 Piezometer  12  
 Distance Well Is From Waste/Source Boundary: \_\_\_\_\_ ft.  
 Is Well A Point of Enforcement Std. Application?  
 Yes  No

Local Grid Location of Well  
 \_\_\_\_\_ ft.  N \_\_\_\_\_ ft.  E  
 \_\_\_\_\_ ft.  S \_\_\_\_\_ ft.  W  
 Grid Origin Location  
 Lat. \_\_\_\_\_ Long. \_\_\_\_\_ or  
 St. Plane \_\_\_\_\_ ft. N, \_\_\_\_\_ ft. E.  
 Section Location of Waste/Source  
 1/4 of \_\_\_\_\_ 1/4 of Sec. \_\_\_\_\_, T. \_\_\_\_\_ N, R. \_\_\_\_\_ E, W.  
 Location of Well Relative to Waste/Source  
 u  Upgradient s  Sidegradient  
 d  Downgradient n  Not Known

Well Name: P 1749 (House C zone) P8A  
 Wis. Unique Well Number: \_\_\_\_\_ DNR Well Number: \_\_\_\_\_  
 Date Well Installed: 03/15/00  
 m m d d y y  
 Well Installed By: (Person's Name and Firm)  
Todd Schmall Field  
Bart Longyear

A. Protective pipe, top elevation \_\_\_\_\_ ft. MSL  
 B. Well casing, top elevation \_\_\_\_\_ ft. MSL  
 C. Land surface elevation \_\_\_\_\_ ft. MSL  
 D. Surface seal, bottom \_\_\_\_\_ ft. MSL or \_\_\_\_\_ ft.  
 12. USCS classification of soil near screen:  
 GP  GM  GC  GW  SW  SP   
 SM  SC  ML  MH  CL  CH   
 Bedrock   
 13. Sieve analysis attached?  Yes  No  
 14. Drilling method used: Rotary  50  
Unknown Hollow Stem Auger  41  
 Other  \_\_\_\_\_  
 15. Drilling fluid used: Water  02 Air  01  
 Drilling Mud  03 None  99  
 16. Drilling additives used?  Yes  No  
 Describe \_\_\_\_\_  
 17. Source of water (attach analysis): \_\_\_\_\_



1. Cap and lock?  Yes  No  
 2. Protective cover pipe:  
 a. Inside diameter: \_\_\_\_\_ in.  
 b. Length: \_\_\_\_\_ ft.  
 c. Material: Flush mount Steel  04  
 Other  \_\_\_\_\_  
 d. Additional protection?  Yes  No  
 If yes, describe: \_\_\_\_\_  
 3. Surface seal: Bentonite  30  
 Concrete  01  
 Other  \_\_\_\_\_  
 4. Material between well casing and protective pipe:  
 Bentonite  30  
 Annular space seal  \_\_\_\_\_  
 Other  Filter Pack Sand  
 5. Annular space seal:  
 a. Granular Bentonite  33  
 b. \_\_\_\_\_ Lbs/gal mud weight ... Bentonite-sand slurry  35  
 c. \_\_\_\_\_ Lbs/gal mud weight ... Bentonite slurry  31  
 d. \_\_\_\_\_ % Bentonite ... Bentonite-cement grout  50  
 e. 50 x 50 mesh Volume added for any of the above \_\_\_\_\_  
 f. How installed: Tremie  01  
Bentonite chips Tremie pumped  02  
 Gravity  08  
 6. Bentonite seal:  
 a. Bentonite granules  33  
 b.  1/4 in.  3/8 in.  1/2 in. Bentonite pellets  32  
 c. Other  \_\_\_\_\_  
 7. Fine sand material: Manufacturer, product name & mesh size  
 a. Bluger BB #7  
 b. Volume added 1250 lb ft<sup>3</sup>  
 8. Filter pack material: Manufacturer, product name and mesh size  
 a. RED FLINT H 30  
 b. Volume added 10250 lb ft<sup>3</sup>  
 9. Well casing: Flush threaded PVC schedule 40  23  
 Flush threaded PVC schedule 80  24  
 Other  \_\_\_\_\_  
 10. Screen material: PVC  
 a. Screen type: Factory cut  11  
 Continuous slot  01  
 Other  \_\_\_\_\_  
 b. Manufacturer \_\_\_\_\_  
 c. Slot size: \_\_\_\_\_ 0.10 in.  
 d. Slotted length: \_\_\_\_\_ 09.8 ft.  
 11. Backfill material (below filter pack):  
Bentonite chips None  14  
 Other  \_\_\_\_\_

E. Bentonite seal, top \_\_\_\_\_ ft. MSL or \_\_\_\_\_ ft.  
 - Fine sand, top 153.5 ft. MSL or \_\_\_\_\_ ft.  
 Filter pack, top 153.5 ft. MSL or \_\_\_\_\_ ft.  
 Screen joint, top 188 ft. MSL or \_\_\_\_\_ ft.  
 Well bottom 198 ft. MSL or \_\_\_\_\_ ft.  
 J. Filter pack, bottom 210 ft. MSL or \_\_\_\_\_ ft.  
 - Borehole, bottom 210.0 ft. MSL or \_\_\_\_\_ ft.  
 L. Borehole, diameter \_\_\_\_\_ in.  
 I. O.D. well casing 20 in.  
 - I.D. well casing 14 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.  
 Signature: \_\_\_\_\_ Firm: \_\_\_\_\_

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Ad. Code. In accordance with ch. 144, Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

Well Purging and Sample Collection



Project No.: GRAPTON Well No. P1749 Site: GRAPTON

Purging Method:  Pumped  Bailed  Other: \_\_\_\_\_

Pump Type: kech Bailer Type: \_\_\_\_\_

Weather Conditions: Mild

Volume Calculations:  $(198.45 - 52.44) \times (0.25^2) \times 0.16 + (0.25^2) \times 30 \times 17 \approx 24$

(D.T.B. - D.T.W. x vol./ft. = Gals./well vol.)

(Gals./well vol. X 5 = Total Volume to be removed) Gals./well vol.: 24

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Cond.	Temp.	Color	Odor Y/N	TDS Turbidity
	52.44	198.45	25	6.94	652	11.2	Clear	N	444.4
11:24			50	6.92	637.3	11.4	Clear	N	445.5
			75	6.97	624.1	11.2	Clear	N	436.3
11:57			100	7.08	628.7	11.2	Clear	N	436.1
12:17			135	7.14	625.4	11.8	Clear	N	436.1
12:29			170	7.14	622.5	11.4	Clear	N	434.6
12:41			185	7.07	622.5	11.1	Clear	N	437.5
12:57			200	7.01	628.3	11.1	Clear	N	435.3
1:307			220	7.03	633	11.4	Clear	N	441.4
Sample Readings									

DO - 4.70 at sample time  
ORP 150

Comments: \_\_\_\_\_

Inside Diameter	vol./ft.
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

Field Blank Taken  Time: \_\_\_\_\_

Well Duplicate  No.: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: 3/23/00

Hnu/PPM	LEL/%	O <sub>2</sub> /%	H <sub>2</sub> S/PPM	CO/PPM



Facility/Project Name <b>GRAFTON</b>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <b>P1788 (P98)</b>
Facility License, Permit or Monitoring Number	Grid Origin Location Lat. _____ Long. _____ or St. Plane _____ ft. N. _____ ft. E.	Wis. Unique Well Number _____ DNR Well Number _____
Type of Well Water Table Observation Well <input type="checkbox"/> 11 Piezometer <input type="checkbox"/> 12	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N. R. _____ <input type="checkbox"/> E. <input type="checkbox"/> W.	Date Well Installed <b>03/15/00</b> m m d d y y
Distance Well Is From Waste/Source Boundary ft. _____	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Well Installed By: (Person's Name and Firm) <b>BOB LONGYEAR</b>
Well A Point of Enforcement Std. Application? <input type="checkbox"/> Yes <input type="checkbox"/> No		

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in.
C. Land surface elevation _____ ft. MSL	b. Length: _____ ft.
D. Surface seal, bottom _____ ft. MSL or _____ ft.	c. Material: <u>Flush Mount</u> Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
2. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>	d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____
13. Sieve analysis attached? <input type="checkbox"/> Yes <input type="checkbox"/> No	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 <u>Unknown</u> Other <input type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Annular space seal <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input checked="" type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input type="checkbox"/> 99	5. Annular space seal: a. Granular Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft <sup>3</sup> volume added for any of the above
16. Drilling additives used? <input type="checkbox"/> Yes <input type="checkbox"/> No	f. How installed: Tremie <input checked="" type="checkbox"/> 01 Tremie pumped <input checked="" type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
Describe _____	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite pellets <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
17. Source of water (attach analysis):	7. Fine sand material: Manufacturer, product name & mesh size a. _____ b. Volume added <u>1 x 50 lb bag</u>
E. Bentonite seal, top <u>2.0</u> ft. MSL or _____ ft.	8. Filter pack material: Manufacturer, product name and mesh size a. <u>RED FLINT #30</u> b. Volume added <u>10 x 50 LB BAG</u>
Fine sand, top <u>88</u> ft. MSL or _____ ft.	9. Well casing: Flush threaded PVC schedule 40 <input type="checkbox"/> 23 Flush threaded PVC schedule 80 <input checked="" type="checkbox"/> 24 Other <input type="checkbox"/>
Filter pack, top <u>90</u> ft. MSL or _____ ft.	10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
Screen joint, top <u>295</u> ft. MSL or _____ ft.	b. Manufacturer <u>PVC</u>
Well bottom <u>105</u> ft. MSL or _____ ft.	c. Slot size: _____ in.
J. Filter pack, bottom <u>110</u> ft. MSL or _____ ft.	d. Slotted length: _____ ft.
Borehole, bottom <u>186.1</u> ft. MSL or _____ ft.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 Other <input type="checkbox"/>
L. Borehole, diameter <u>6.0</u> in.	<u>Baroid Hole Plug 3/8"</u>
M. O.D. well casing <u>2.0</u> in.	
N. I.D. well casing <u>1.4</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge. 20 x 50 LB BAG

Signature [Signature] Firm Earth Tech

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Ad. Code. In accordance with ch. 144, Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

Route to: Solid Waste  Haz. Waste  Wastewater   
Env. Response & Repair  Underground Tanks  Other

Facility/Project Name <u>GRADON</u>	County Name	Well Name <u>P 1788</u>
Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number
		DNR Well Number

1. Can this well be purged dry?  Yes  No
2. Well development method
- surged with bailer and bailed  41
  - surged with bailer and pumped  61
  - surged with block and bailed  42
  - surged with block and pumped  62
  - surged with block, bailed and pumped  70
  - compressed air  20
  - bailed only  10
  - pumped only  51
  - pumped slowly  50
  - Other

3. Time spent developing well 120 min.
4. Depth of well (from top of well casing) 105.3 ft.
5. Inside diameter of well 1.4 in.
6. Volume of water in filter pack and well casing 15.9 gal.
7. Volume of water removed from well 160.0 gal.
8. Volume of water added (if any) 0 gal.
9. Source of water added \_\_\_\_\_

10. Analysis performed on water added?  Yes  No  
(If yes, attach results)

16. Additional comments on development:

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>45.17</u> ft.	_____ ft.
Date	b. <u>03/24/00</u> m m d d y y	____/____/____ m m d d y y
Time	c. <u>9:50</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	____:____ <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear <input checked="" type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) <u>Slightly turbid at first, cleared after 15 gallons</u>	Clear <input type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe)
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l

Well developed by: Person's Name and Firm

Name: [Signature]

Firm: Earth Tech

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: [Signature]

Print Initials: JPK

Firm: Earth Tech

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.



Well No. P1788 <sup>793</sup>

Date: 3, 24, 02  
Mon. Tues. Weds. Thurs. Fri.

Site: GRAPTON

Weather: GORGEOUS 60° <sup>no sun</sup> Project No.: Sunny

Development Method: Pumped  Bailed  Other: \_\_\_\_\_

Pump Type: hook Bailer Type: \_\_\_\_\_

Volume Calculation:  $((105.29 - 45.17) \times 0.16) + (17 \times 30 \times 1.24) = 15.9 \times 10 = 159$

(D.T.B. - D.T.W. x vol./ft. = PVC/well volume) + (N\* x H\* x Annulus vol./ft.) = Total Well Volume

\* (Wells that cannot be purged dry, 10x's the Total Well Volume must be purged)

(Wells that can be purged dry, slowly removing water, without surging until dry)

Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Cond.	Temp.	ORP Color	DO Odor <del>YAY</del>	TDS Turbidity
950	45.17	105.29	5	7.21	1483	11	75		1076
956			18	7.09	1312	10.8	93		946.6
1000			30	6.86	1090	11.1	108		780.2
1015			45	6.77	1022	12.9	143		720.4
1026			60	6.68	978.1	13.7	158		694.3
1040			80	6.61	959.9	12.7	161		682.1
1050			100	6.61	930.3	12.3	169		660.9
1100			120	6.59	926	12.5	178		655.4
1110			140	6.55	924.5	12.2	176		653.4
1120			160	6.64	910.4	12.2	150	5.29	643.9

Comments:

Collected sample and dup  
P1788 and P1788D

- \*N = porosity of filter pack
- \*H = length of filter pack or length of saturated filter pack (water level within screen length)
- \* = A 30-minute surge and purge before the 10x's the Total Well Volume

Signature: [Signature]

Annulus	vol./ft.	Inside Diameter	vol./ft.
4"	0.42	1"	0.04
6"	1.24	1.25"	0.06
8"	2.38	2"	0.16
10"	3.85	4"	0.65

HNu/PPM	LEL/%	O2/%	H2S/PPM	CO/PPM

**APPENDIX D**  
**GROUNDWATER MONITORING DATA**

**Village of Grafton - Lime Kiln Landfill**  
**Detected Compounds and Regulatory Exceedences**

Well	Date	Compound	Result	Units	ES	PAL	Exceedence
LH1							
	1/26/2000	1,1-Dichloroethane	8.8	ug/L	850	85	
	3/24/2000	1,1-Dichloroethane	8.6	ug/L	850	85	
	6/21/2000	1,1-Dichloroethane	4	ug/L	850	85	
	9/13/2000	1,1-Dichloroethane	6.2	ug/L	850	85	
	12/13/2000	1,1-Dichloroethane	5	ug/L	850	85	
	1/26/2000	1,1-Dichloroethene	1.3	ug/L	7	0.7	PAL
	3/24/2000	1,1-Dichloroethene	1.6	ug/L	7	0.7	PAL
	6/21/2000	1,1-Dichloroethene	1	ug/L	7	0.7	PAL
	9/13/2000	1,1-Dichloroethene	1.5	ug/L	7	0.7	PAL
	12/13/2000	1,1-Dichloroethene	1.3	ug/L	7	0.7	PAL
	12/13/2000	Acetone	7.6	ug/L	1000	200	
	1/26/2000	Alkalinity as CaCO3	390	mg/L			
	6/21/2000	Alkalinity as CaCO3	370	mg/L			
	12/13/2000	Alkalinity as CaCO3	350	mg/L			
	6/21/2000	Arsenic - Dissolved	1	ug/L	50	5	
	12/13/2000	Arsenic - Dissolved	0.87	ug/L	50	5	
	1/26/2000	Barium - Dissolved	47	ug/L	2000	400	
	3/24/2000	Barium - Dissolved	47	ug/L	2000	400	
	6/21/2000	Barium - Dissolved	40	ug/L	2000	400	
	12/13/2000	Barium - Dissolved	31	ug/L	2000	400	
	9/13/2000	Benzene	0.31	ug/L	5	0.5	
	1/26/2000	Chloride	120	mg/L	250	125	
	3/24/2000	Chloride	140	mg/L	250	125	PAL
	6/21/2000	Chloride	130	mg/L	250	125	PAL
	12/13/2000	Chloride	130	mg/L	250	125	PAL
	3/24/2000	Chloroethane	2	ug/L	400	80	
	6/21/2000	Chloroethane	1	ug/L	400	80	
	9/13/2000	Chloroethane	2.5	ug/L	400	80	
	12/13/2000	Chloroethane	2.3	ug/L	400	80	
	12/13/2000	Chromium - Dissolved	0.37	ug/L	100	10	
	1/26/2000	cis-1,2-Dichloroethene	120	ug/L	70	7	ES
	3/24/2000	cis-1,2-Dichloroethene	110	ug/L	70	7	ES
	6/21/2000	cis-1,2-Dichloroethene	120	ug/L	70	7	ES
	9/13/2000	cis-1,2-Dichloroethene	140	ug/L	70	7	ES
	12/13/2000	cis-1,2-Dichloroethene	120	ug/L	70	7	ES
	1/26/2000	Ethane	5.2	ug/l			
	3/24/2000	Ethane	3.7	ug/l			
	1/26/2000	Mercury - Dissolved	0.28	ug/L	2	0.2	PAL
	3/24/2000	Mercury - Dissolved	0.55	ug/L	2	0.2	PAL

Well	Date	Compound	Result Units	ES	PAL	Exceedence
	12/13/2000	Mercury - Dissolved	0.54 ug/L	2	0.2	PAL
	1/26/2000	Methane	48 ug/l			
	3/24/2000	Methane	73 ug/l			
	6/21/2000	Methane	140 ug/l			
	12/13/2000	Methane	170 ug/l			
	6/21/2000	Methylene chloride	1 ug/L	5	0.5	PAL
	9/13/2000	Methylene chloride	0.39 ug/L	5	0.5	
	12/13/2000	Methylene chloride	0.71 ug/L	5	0.5	PAL
	1/26/2000	Nitrogen, nitrate	1.5 mg/L	10	2	
	3/24/2000	Nitrogen, nitrate	1.8 mg/L	10	2	
	6/21/2000	Nitrogen, nitrate	1 mg/L	10	2	
	6/21/2000	Selenium - Dissolved	7 ug/L	50	10	
	12/13/2000	Selenium - Dissolved	5 ug/L	50	10	
	1/26/2000	Tetrachloroethene	4.4 ug/L	5	0.5	PAL
	3/24/2000	Tetrachloroethene	6.5 ug/L	5	0.5	ES
	6/21/2000	Tetrachloroethene	3 ug/L	5	0.5	PAL
	9/13/2000	Tetrachloroethene	3.7 ug/L	5	0.5	PAL
	12/13/2000	Tetrachloroethene	4.2 ug/L	5	0.5	PAL
	12/13/2000	Toluene	0.42 ug/L	1000	200	
	12/13/2000	Toluene	0.42 ug/L	1000	200	
	1/26/2000	trans-1,2-Dichloroethene	5.1 ug/L	100	20	
	3/24/2000	trans-1,2-Dichloroethene	4.9 ug/L	100	20	
	6/21/2000	trans-1,2-Dichloroethene	5 ug/L	100	20	
	9/13/2000	trans-1,2-Dichloroethene	4.8 ug/L	100	20	
	12/13/2000	trans-1,2-Dichloroethene	5.1 ug/L	100	20	
	1/26/2000	Trichloroethene	29 ug/L	5	0.5	ES
	3/24/2000	Trichloroethene	29 ug/L	5	0.5	ES
	6/21/2000	Trichloroethene	27 ug/L	5	0.5	ES
	9/13/2000	Trichloroethene	27 ug/L	5	0.5	ES
	12/13/2000	Trichloroethene	25 ug/L	5	0.5	ES
	1/26/2000	Vinyl chloride	130 ug/L	0.2	0.02	ES
	3/24/2000	Vinyl chloride	120 ug/L	0.2	0.02	ES
	6/21/2000	Vinyl chloride	130 ug/L	0.2	0.02	ES
	9/13/2000	Vinyl chloride	150 ug/L	0.2	0.02	ES
	12/13/2000	Vinyl chloride	130 ug/L	0.2	0.02	ES
<b>LH2</b>						
	1/26/2000	1,1,1-Trichloroethane	0.82 ug/L	200	40	
	3/24/2000	1,1,1-Trichloroethane	1.5 ug/L	200	40	
	1/26/2000	1,1-Dichloroethane	84 ug/L	850	85	
	3/24/2000	1,1-Dichloroethane	80 ug/L	850	85	
	6/21/2000	1,1-Dichloroethane	63 ug/L	850	85	
	9/13/2000	1,1-Dichloroethane	4.8 ug/L	850	85	
	12/13/2000	1,1-Dichloroethane	5.1 ug/L	850	85	
	12/13/2000	1,1-Dichloroethene	0.88 ug/L	7	0.7	PAL



Well	Date	Compound	Result Units	ES	PAL	Exceedence
	1/26/2000	Alkalinity as CaCO3	240 mg/L			
	6/21/2000	Alkalinity as CaCO3	190 mg/L			
	12/13/2000	Alkalinity as CaCO3	76 mg/L			
	6/21/2000	Arsenic - Dissolved	2 ug/L	50	5	
	12/13/2000	Arsenic - Dissolved	0.53 ug/L	50	5	
	1/26/2000	Barium - Dissolved	44 ug/L	2000	400	
	3/24/2000	Barium - Dissolved	40 ug/L	2000	400	
	6/21/2000	Barium - Dissolved	21 ug/L	2000	400	
	12/13/2000	Barium - Dissolved	28 ug/L	2000	400	
	1/26/2000	Chloride	150 mg/L	250	125	PAL
	3/24/2000	Chloride	530 mg/L	250	125	ES
	6/21/2000	Chloride	500 mg/L	250	125	ES
	12/13/2000	Chloride	96 mg/L	250	125	
	6/21/2000	Chloroethane	1 ug/L	400	80	
	9/13/2000	Chloroethane	4.8 ug/L	400	80	
	12/13/2000	Chloroethane	3.1 ug/L	400	80	
	1/26/2000	Chromium - Dissolved	1.2 ug/L	100	10	
	3/24/2000	Chromium - Dissolved	1.2 ug/L	100	10	
	6/21/2000	Chromium - Dissolved	1 ug/L	100	10	
	12/13/2000	Chromium - Dissolved	0.87 ug/L	100	10	
	1/26/2000	cis-1,2-Dichloroethene	40 ug/L	70	7	PAL
	3/24/2000	cis-1,2-Dichloroethene	31 ug/L	70	7	PAL
	6/21/2000	cis-1,2-Dichloroethene	46 ug/L	70	7	PAL
	9/13/2000	cis-1,2-Dichloroethene	97 ug/L	70	7	ES
	12/13/2000	cis-1,2-Dichloroethene	94 ug/L	70	7	ES
	6/21/2000	Ethane	46 ug/l			
	12/13/2000	Lead - Dissolved	5 ug/L	15	1.5	PAL
	12/13/2000	Mercury - Dissolved	0.35 ug/L	2	0.2	PAL
	1/26/2000	Methane	2.3 ug/l			
	3/24/2000	Methane	12 ug/l			
	6/21/2000	Methane	1100 ug/l			
	12/13/2000	Methane	210 ug/l			
	9/13/2000	Methylene chloride	0.62 ug/L	5	0.5	PAL
	12/13/2000	Methylene chloride	0.62 ug/L	5	0.5	PAL
	1/26/2000	Nitrogen, nitrate	0.6 mg/L	10	2	
	3/24/2000	Nitrogen, nitrate	0.42 mg/L	10	2	
	6/21/2000	Selenium - Dissolved	7 ug/L	50	10	
	12/13/2000	Selenium - Dissolved	3.1 ug/L	50	10	
	3/24/2000	Tetrachloroethene	0.75 ug/L	5	0.5	PAL
	12/13/2000	Tetrachloroethene	1.6 ug/L	5	0.5	PAL
	12/13/2000	Toluene	0.23 ug/L	1000	200	
	12/13/2000	Toluene	0.23 ug/L	1000	200	
	1/26/2000	trans-1,2-Dichloroethene	1.6 ug/L	100	20	
	3/24/2000	trans-1,2-Dichloroethene	2.3 ug/L	100	20	

Well	Date	Compound	Result Units	ES	PAL	Exceedence
	6/21/2000	trans-1,2-Dichloroethene	1 ug/L	100	20	
	9/13/2000	trans-1,2-Dichloroethene	4.4 ug/L	100	20	
	12/13/2000	trans-1,2-Dichloroethene	4.6 ug/L	100	20	
	1/26/2000	Trichloroethene	20 ug/L	5	0.5	ES
	3/24/2000	Trichloroethene	20 ug/L	5	0.5	ES
	6/21/2000	Trichloroethene	6 ug/L	5	0.5	ES
	9/13/2000	Trichloroethene	7.6 ug/L	5	0.5	ES
	12/13/2000	Trichloroethene	13 ug/L	5	0.5	ES
	1/26/2000	Vinyl chloride	4.9 ug/L	0.2	0.02	ES
	3/24/2000	Vinyl chloride	6.4 ug/L	0.2	0.02	ES
	6/21/2000	Vinyl chloride	45 ug/L	0.2	0.02	ES
	9/13/2000	Vinyl chloride	200 ug/L	0.2	0.02	ES
	12/13/2000	Vinyl chloride	150 ug/L	0.2	0.02	ES

**P2A**

	3/24/2000	1,1,1-Trichloroethane	1.2 ug/L	200	40	
	6/19/2000	1,1,1-Trichloroethane	3 ug/L	200	40	
	9/12/2000	1,1,1-Trichloroethane	1.1 ug/L	200	40	
	12/13/2000	1,1,1-Trichloroethane	0.56 ug/L	200	40	
	1/25/2000	1,1-Dichloroethane	24 ug/L	850	85	
	3/24/2000	1,1-Dichloroethane	15 ug/L	850	85	
	6/19/2000	1,1-Dichloroethane	55 ug/L	850	85	
	9/12/2000	1,1-Dichloroethane	37 ug/L	850	85	
	12/13/2000	1,1-Dichloroethane	27 ug/L	850	85	
	1/25/2000	Alkalinity as CaCO3	480 mg/L			
	6/19/2000	Alkalinity as CaCO3	480 mg/L			
	12/13/2000	Alkalinity as CaCO3	500 mg/L			
	6/19/2000	Arsenic - Dissolved	1 ug/L	50	5	
	12/13/2000	Arsenic - Dissolved	2.3 ug/L	50	5	
	1/25/2000	Barium - Dissolved	47 ug/L	2000	400	
	3/24/2000	Barium - Dissolved	43 ug/L	2000	400	
	6/19/2000	Barium - Dissolved	54 ug/L	2000	400	
	12/13/2000	Barium - Dissolved	54 ug/L	2000	400	
	1/25/2000	Chloride	240 mg/L	250	125	PAL
	3/24/2000	Chloride	240 mg/L	250	125	PAL
	6/19/2000	Chloride	220 mg/L	250	125	PAL
	12/13/2000	Chloride	270 mg/L	250	125	ES
	1/25/2000	Chromium - Dissolved	0.62 ug/L	100	10	
	3/24/2000	Chromium - Dissolved	0.89 ug/L	100	10	
	12/13/2000	Chromium - Dissolved	1.2 ug/L	100	10	
	1/25/2000	cis-1,2-Dichloroethene	2 ug/L	70	7	
	3/24/2000	cis-1,2-Dichloroethene	26 ug/L	70	7	PAL
	6/19/2000	cis-1,2-Dichloroethene	13 ug/L	70	7	PAL
	9/12/2000	cis-1,2-Dichloroethene	5.8 ug/L	70	7	
	12/13/2000	cis-1,2-Dichloroethene	3.1 ug/L	70	7	

Well	Date	Compound	Result Units	ES	PAL	Exceedence
	12/13/2000	Lead - Dissolved	0.49 ug/L	15	1.5	
	1/25/2000	Methane	3 ug/l			
	3/24/2000	Methane	1.9 ug/l			
	6/19/2000	Methane	6 ug/l			
	12/13/2000	Methane	12 ug/l			
	12/13/2000	Methylene chloride	0.5 ug/L	5	0.5	
	6/19/2000	Selenium - Dissolved	1 ug/L	50	10	
	12/13/2000	Selenium - Dissolved	1.2 ug/L	50	10	
	1/25/2000	trans-1,2-Dichloroethene	3.5 ug/L	100	20	
	3/24/2000	trans-1,2-Dichloroethene	2.6 ug/L	100	20	
	6/19/2000	trans-1,2-Dichloroethene	3 ug/L	100	20	
	9/12/2000	trans-1,2-Dichloroethene	5.8 ug/L	100	20	
	12/13/2000	trans-1,2-Dichloroethene	5.1 ug/L	100	20	
	1/25/2000	Trichloroethene	3.8 ug/L	5	0.5	PAL
	3/24/2000	Trichloroethene	32 ug/L	5	0.5	ES
	6/19/2000	Trichloroethene	13 ug/L	5	0.5	ES
	9/12/2000	Trichloroethene	9.9 ug/L	5	0.5	ES
	12/13/2000	Trichloroethene	6.2 ug/L	5	0.5	ES
	1/25/2000	Vinyl chloride	1.2 ug/L	0.2	0.02	ES
	6/19/2000	Vinyl chloride	1 ug/L	0.2	0.02	ES
	9/12/2000	Vinyl chloride	2.5 ug/L	0.2	0.02	ES
	12/13/2000	Vinyl chloride	2 ug/L	0.2	0.02	ES

P2B

	1/25/2000	1,1,1-Trichloroethane	3.1 ug/L	200	40	
	3/24/2000	1,1,1-Trichloroethane	4.8 ug/L	200	40	
	12/13/2000	1,1,1-Trichloroethane	3.2 ug/L	200	40	
	1/25/2000	1,1-Dichloroethane	22 ug/L	850	85	
	3/24/2000	1,1-Dichloroethane	26 ug/L	850	85	
	6/19/2000	1,1-Dichloroethane	25 ug/L	850	85	
	9/12/2000	1,1-Dichloroethane	24 ug/L	850	85	
	12/13/2000	1,1-Dichloroethane	22 ug/L	850	85	
	3/24/2000	1,1-Dichloroethene	2.9 ug/L	7	0.7	PAL
	6/19/2000	1,1-Dichloroethene	3 ug/L	7	0.7	PAL
	12/13/2000	1,1-Dichloroethene	2.2 ug/L	7	0.7	PAL
	1/25/2000	Alkalinity as CaCO3	390 mg/L			
	6/19/2000	Alkalinity as CaCO3	360 mg/L			
	12/13/2000	Alkalinity as CaCO3	390 mg/L			
	6/19/2000	Arsenic - Dissolved	1 ug/L	50	5	
	12/13/2000	Arsenic - Dissolved	1.2 ug/L	50	5	
	1/25/2000	Barium - Dissolved	77 ug/L	2000	400	
	3/24/2000	Barium - Dissolved	72 ug/L	2000	400	
	6/19/2000	Barium - Dissolved	67 ug/L	2000	400	
	12/13/2000	Barium - Dissolved	70 ug/L	2000	400	
	3/24/2000	Cadmium - Dissolved	1.1 ug/L	5	0.5	PAL

Well	Date	Compound	Result Units	ES	PAL	Exceedence
	1/25/2000	Chloride	93 mg/L	250	125	
	3/24/2000	Chloride	110 mg/L	250	125	
	6/19/2000	Chloride	97 mg/L	250	125	
	12/13/2000	Chloride	99 mg/L	250	125	
	3/24/2000	Chloroethane	15 ug/L	400	80	
	6/19/2000	Chloroethane	17 ug/L	400	80	
	9/12/2000	Chloroethane	14 ug/L	400	80	
	12/13/2000	Chloroethane	13 ug/L	400	80	
	1/25/2000	Chromium - Dissolved	1.6 ug/L	100	10	
	3/24/2000	Chromium - Dissolved	1.7 ug/L	100	10	
	12/13/2000	Chromium - Dissolved	0.64 ug/L	100	10	
	1/25/2000	cis-1,2-Dichloroethene	530 ug/L	70	7	ES
	3/24/2000	cis-1,2-Dichloroethene	470 ug/L	70	7	ES
	6/19/2000	cis-1,2-Dichloroethene	600 ug/L	70	7	ES
	9/12/2000	cis-1,2-Dichloroethene	490 ug/L	70	7	ES
	12/13/2000	cis-1,2-Dichloroethene	570 ug/L	70	7	ES
	1/25/2000	Ethane	23 ug/l			
	3/24/2000	Ethane	24 ug/l			
	6/19/2000	Ethane	24 ug/l			
	12/13/2000	Ethane	22 ug/l			
	1/25/2000	Methane	130 ug/l			
	3/24/2000	Methane	270 ug/l			
	6/19/2000	Methane	260 ug/l			
	12/13/2000	Methane	430 ug/l			
	1/25/2000	Nitrogen, nitrate	0.15 mg/L	10	2	
	3/24/2000	Nitrogen, nitrate	0.13 mg/L	10	2	
	6/19/2000	Selenium - Dissolved	1 ug/L	50	10	
	12/13/2000	Selenium - Dissolved	0.62 ug/L	50	10	
	1/25/2000	trans-1,2-Dichloroethene	9.8 ug/L	100	20	
	3/24/2000	trans-1,2-Dichloroethene	12 ug/L	100	20	
	6/19/2000	trans-1,2-Dichloroethene	12 ug/L	100	20	
	9/12/2000	trans-1,2-Dichloroethene	21 ug/L	100	20	PAL
	12/13/2000	trans-1,2-Dichloroethene	15 ug/L	100	20	
	1/25/2000	Trichloroethene	210 ug/L	5	0.5	ES
	3/24/2000	Trichloroethene	170 ug/L	5	0.5	ES
	6/19/2000	Trichloroethene	210 ug/L	5	0.5	ES
	9/12/2000	Trichloroethene	170 ug/L	5	0.5	ES
	12/13/2000	Trichloroethene	200 ug/L	5	0.5	ES
	1/25/2000	Vinyl chloride	370 ug/L	0.2	0.02	ES
	3/24/2000	Vinyl chloride	340 ug/L	0.2	0.02	ES
	6/19/2000	Vinyl chloride	450 ug/L	0.2	0.02	ES
	9/12/2000	Vinyl chloride	340 ug/L	0.2	0.02	ES
	12/13/2000	Vinyl chloride	390 ug/L	0.2	0.02	ES

P2BD

Well	Date	Compound	Result Units	ES	PAL	Exceedence
	9/12/2000	1,1-Dichloroethane	23 ug/L	850	85	
	9/12/2000	Chloroethane	17 ug/L	400	80	
	9/12/2000	cis-1,2-Dichloroethene	500 ug/L	70	7	ES
	9/12/2000	trans-1,2-Dichloroethene	14 ug/L	100	20	
	9/12/2000	Trichloroethene	170 ug/L	5	0.5	ES
	9/12/2000	Vinyl chloride	360 ug/L	0.2	0.02	ES

**P3B**

	1/25/2000	Alkalinity as CaCO3	290 mg/L			
	6/19/2000	Alkalinity as CaCO3	260 mg/L			
	12/13/2000	Alkalinity as CaCO3	280 mg/L			
	12/13/2000	Arsenic - Dissolved	0.38 ug/L	50	5	
	1/25/2000	Barium - Dissolved	44 ug/L	2000	400	
	3/23/2000	Barium - Dissolved	45 ug/L	2000	400	
	6/19/2000	Barium - Dissolved	42 ug/L	2000	400	
	12/13/2000	Barium - Dissolved	43 ug/L	2000	400	
	1/25/2000	Chloride	21 mg/L	250	125	
	6/19/2000	Chloride	24 mg/L	250	125	
	12/13/2000	Chloride	24 mg/L	250	125	
	1/25/2000	Chromium - Dissolved	1 ug/L	100	10	
	3/23/2000	Chromium - Dissolved	0.56 ug/L	100	10	
	12/13/2000	Chromium - Dissolved	0.51 ug/L	100	10	
	3/23/2000	cis-1,2-Dichloroethene	0.48 ug/L	70	7	
	12/13/2000	Methylene chloride	0.4 ug/L	5	0.5	
	1/25/2000	Nitrogen, nitrate	4.6 mg/L	10	2	PAL
	6/19/2000	Nitrogen, nitrate	4 mg/L	10	2	PAL
	6/19/2000	Selenium - Dissolved	2 ug/L	50	10	
	12/13/2000	Selenium - Dissolved	1.6 ug/L	50	10	
	1/25/2000	Tetrachloroethene	1.2 ug/L	5	0.5	PAL
	3/23/2000	Tetrachloroethene	1.3 ug/L	5	0.5	PAL
	6/19/2000	Tetrachloroethene	1 ug/L	5	0.5	PAL
	9/12/2000	Tetrachloroethene	1.6 ug/L	5	0.5	PAL
	12/13/2000	Tetrachloroethene	2.2 ug/L	5	0.5	PAL
	1/25/2000	Trichloroethene	35 ug/L	5	0.5	ES
	3/23/2000	Trichloroethene	32 ug/L	5	0.5	ES
	6/19/2000	Trichloroethene	37 ug/L	5	0.5	ES
	9/12/2000	Trichloroethene	36 ug/L	5	0.5	ES
	12/13/2000	Trichloroethene	38 ug/L	5	0.5	ES

**P3BD**

	6/19/2000	Alkalinity as CaCO3	290 mg/L			
	6/19/2000	Barium - Dissolved	42 ug/L	2000	400	
	6/19/2000	Chloride	24 mg/L	250	125	
	6/19/2000	Methane	1 ug/l			
	6/19/2000	Nitrogen, nitrate	4 mg/L	10	2	PAL

Well	Date	Compound	Result	Units	ES	PAL	Exceedence
	6/19/2000	Selenium - Dissolved	1	ug/L	50	10	
	6/19/2000	Tetrachloroethene	1	ug/L	5	0.5	PAL
	6/19/2000	Trichloroethene	34	ug/L	5	0.5	ES

**P4B**

	1/26/2000	Alkalinity as CaCO3	350	mg/L			
	6/19/2000	Alkalinity as CaCO3	310	mg/L			
	12/13/2000	Alkalinity as CaCO3	350	mg/L			
	12/13/2000	Arsenic - Dissolved	0.62	ug/L	50	5	
	1/26/2000	Barium - Dissolved	46	ug/L	2000	400	
	3/23/2000	Barium - Dissolved	45	ug/L	2000	400	
	6/19/2000	Barium - Dissolved	44	ug/L	2000	400	
	12/13/2000	Barium - Dissolved	44	ug/L	2000	400	
	1/26/2000	Chloride	32	mg/L	250	125	
	6/19/2000	Chloride	37	mg/L	250	125	
	12/13/2000	Chloride	42	mg/L	250	125	
	1/26/2000	Chromium - Dissolved	1	ug/L	100	10	
	3/23/2000	Chromium - Dissolved	0.95	ug/L	100	10	
	12/13/2000	Chromium - Dissolved	0.73	ug/L	100	10	
	1/26/2000	cis-1,2-Dichloroethene	0.95	ug/L	70	7	
	3/23/2000	cis-1,2-Dichloroethene	0.66	ug/L	70	7	
	6/19/2000	cis-1,2-Dichloroethene	2	ug/L	70	7	
	9/12/2000	cis-1,2-Dichloroethene	4.2	ug/L	70	7	
	12/13/2000	cis-1,2-Dichloroethene	1.2	ug/L	70	7	
	1/26/2000	Nitrogen, nitrate	4.4	mg/L	10	2	PAL
	6/19/2000	Nitrogen, nitrate	4	mg/L	10	2	PAL
	6/19/2000	Selenium - Dissolved	2	ug/L	50	10	
	12/13/2000	Selenium - Dissolved	1.4	ug/L	50	10	
	1/26/2000	Trichloroethene	1.2	ug/L	5	0.5	PAL
	3/23/2000	Trichloroethene	1.8	ug/L	5	0.5	PAL
	6/19/2000	Trichloroethene	3	ug/L	5	0.5	PAL
	9/12/2000	Trichloroethene	5.5	ug/L	5	0.5	ES
	12/13/2000	Trichloroethene	1.6	ug/L	5	0.5	PAL
	6/19/2000	Vinyl chloride	1	ug/L	0.2	0.02	ES
	9/12/2000	Vinyl chloride	1.9	ug/L	0.2	0.02	ES
	12/13/2000	Vinyl chloride	0.89	ug/L	0.2	0.02	ES

**P7B**

	6/22/2000	Alkalinity as CaCO3	390	mg/L			
	12/13/2000	Alkalinity as CaCO3	390	mg/L			
	12/13/2000	Arsenic - Dissolved	0.33	ug/L	50	5	
	3/23/2000	Barium - Dissolved	83	ug/L	2000	400	
	6/22/2000	Barium - Dissolved	52	ug/L	2000	400	
	12/13/2000	Barium - Dissolved	46	ug/L	2000	400	
	6/22/2000	Chloride	6	mg/L	250	125	



Well	Date	Compound	Result Units	ES	PAL	Exceedance
	12/13/2000	Chloride	7.3 mg/L	250	125	
	12/13/2000	Chromium - Dissolved	0.37 ug/L	100	10	
	9/14/2000	cis-1,2-Dichloroethene	0.58 ug/L	70	7	
	12/13/2000	cis-1,2-Dichloroethene	0.53 ug/L	70	7	
	6/22/2000	Selenium - Dissolved	1 ug/L	50	10	
	12/13/2000	Selenium - Dissolved	0.98 ug/L	50	10	
	3/23/2000	Trichloroethene	0.9 ug/L	5	0.5	PAL
	6/22/2000	Trichloroethene	1 ug/L	5	0.5	PAL
	9/14/2000	Trichloroethene	1.1 ug/L	5	0.5	PAL
	12/13/2000	Trichloroethene	0.75 ug/L	5	0.5	PAL
	12/13/2000	Vinyl chloride	0.35 ug/L	0.2	0.02	ES

P8A

	3/23/2000	1,1,1-Trichloroethane	12 ug/L	200	40	
	6/21/2000	1,1,1-Trichloroethane	10 ug/L	200	40	
	9/13/2000	1,1,1-Trichloroethane	13 ug/L	200	40	
	12/15/2000	1,1,1-Trichloroethane	12 ug/L	200	40	
	3/23/2000	1,1-Dichloroethane	35 ug/L	850	85	
	6/21/2000	1,1-Dichloroethane	38 ug/L	850	85	
	9/13/2000	1,1-Dichloroethane	41 ug/L	850	85	
	12/15/2000	1,1-Dichloroethane	43 ug/L	850	85	
	3/23/2000	1,1-Dichloroethene	3.9 ug/L	7	0.7	PAL
	6/21/2000	1,1-Dichloroethene	4 ug/L	7	0.7	PAL
	9/13/2000	1,1-Dichloroethene	3.7 ug/L	7	0.7	PAL
	12/15/2000	1,1-Dichloroethene	3.1 ug/L	7	0.7	PAL
	6/21/2000	Alkalinity as CaCO3	290 mg/L			
	12/15/2000	Alkalinity as CaCO3	290 mg/L			
	12/15/2000	Arsenic - Dissolved	0.38 ug/L	50	5	
	3/23/2000	Barium - Dissolved	120 ug/L	2000	400	
	6/21/2000	Barium - Dissolved	120 ug/L	2000	400	
	12/15/2000	Barium - Dissolved	100 ug/L	2000	400	
	6/21/2000	Chloride	50 mg/L	250	125	
	12/15/2000	Chloride	49 mg/L	250	125	
	3/23/2000	Chromium - Dissolved	0.59 ug/L	100	10	
	12/15/2000	Chromium - Dissolved	0.39 ug/L	100	10	
	3/23/2000	cis-1,2-Dichloroethene	120 ug/L	70	7	ES
	6/21/2000	cis-1,2-Dichloroethene	140 ug/L	70	7	ES
	9/13/2000	cis-1,2-Dichloroethene	150 ug/L	70	7	ES
	12/15/2000	cis-1,2-Dichloroethene	150 ug/L	70	7	ES
	3/23/2000	Methane	23 ug/l			
	12/15/2000	Methane	6.5 ug/l			
	6/21/2000	Selenium - Dissolved	2 ug/L	50	10	
	12/15/2000	Selenium - Dissolved	0.49 ug/L	50	10	
	3/23/2000	Tetrachloroethene	0.53 ug/L	5	0.5	PAL
	3/23/2000	trans-1,2-Dichloroethene	1.6 ug/L	100	20	

Well	Date	Compound	Result Units	ES	PAL	Exceedence
	6/21/2000	trans-1,2-Dichloroethene	1 ug/L	100	20	
	9/13/2000	trans-1,2-Dichloroethene	1.6 ug/L	100	20	
	12/15/2000	trans-1,2-Dichloroethene	3.5 ug/L	100	20	
	3/23/2000	Trichloroethene	69 ug/L	5	0.5	ES
	6/21/2000	Trichloroethene	76 ug/L	5	0.5	ES
	9/13/2000	Trichloroethene	88 ug/L	5	0.5	ES
	12/15/2000	Trichloroethene	93 ug/L	5	0.5	ES
	3/23/2000	Vinyl chloride	37 ug/L	0.2	0.02	ES
	6/21/2000	Vinyl chloride	28 ug/L	0.2	0.02	ES
	9/13/2000	Vinyl chloride	11 ug/L	0.2	0.02	ES
	12/15/2000	Vinyl chloride	14 ug/L	0.2	0.02	ES

**P8B**

	6/22/2000	1,1,1-Trichloroethane	1 ug/L	200	40	
	9/13/2000	1,1,1-Trichloroethane	1.1 ug/L	200	40	
	12/15/2000	1,1,1-Trichloroethane	1.2 ug/L	200	40	
	3/23/2000	1,1,2-Trichlorotrifluoroethane	3.7 ug/L			
	6/22/2000	1,1,2-Trichlorotrifluoroethane	2 ug/L			
	9/13/2000	1,1,2-Trichlorotrifluoroethane	2.5 ug/L			
	12/15/2000	1,1,2-Trichlorotrifluoroethane	3.9 ug/L			
	9/13/2000	1,1-Dichloroethane	1 ug/L	850	85	
	12/15/2000	1,1-Dichloroethane	0.96 ug/L	850	85	
	12/15/2000	1,1-Dichloroethene	0.91 ug/L	7	0.7	PAL
	6/22/2000	Alkalinity as CaCO3	340 mg/L			
	12/15/2000	Alkalinity as CaCO3	310 mg/L			
	12/15/2000	Arsenic - Dissolved	0.35 ug/L	50	5	
	3/23/2000	Barium - Dissolved	69 ug/L	2000	400	
	6/22/2000	Barium - Dissolved	54 ug/L	2000	400	
	12/15/2000	Barium - Dissolved	49 ug/L	2000	400	
	6/22/2000	Chloride	11 mg/L	250	125	
	12/15/2000	Chloride	15 mg/L	250	125	
	3/23/2000	Chromium - Dissolved	0.55 ug/L	100	10	
	12/15/2000	Chromium - Dissolved	0.43 ug/L	100	10	
	3/23/2000	cis-1,2-Dichloroethene	69 ug/L	70	7	PAL
	6/22/2000	cis-1,2-Dichloroethene	98 ug/L	70	7	ES
	9/13/2000	cis-1,2-Dichloroethene	130 ug/L	70	7	ES
	12/15/2000	cis-1,2-Dichloroethene	130 ug/L	70	7	ES
	6/22/2000	Selenium - Dissolved	1 ug/L	50	10	
	12/15/2000	Selenium - Dissolved	0.74 ug/L	50	10	
	9/13/2000	trans-1,2-Dichloroethene	1.9 ug/L	100	20	
	12/15/2000	trans-1,2-Dichloroethene	1.1 ug/L	100	20	
	3/23/2000	Trichloroethene	51 ug/L	5	0.5	ES
	6/22/2000	Trichloroethene	89 ug/L	5	0.5	ES
	9/13/2000	Trichloroethene	95 ug/L	5	0.5	ES
	12/15/2000	Trichloroethene	100 ug/L	5	0.5	ES

Well	Date	Compound	Result Units	ES	PAL	Exceedence
	9/13/2000	Vinyl chloride	0.77 ug/L	0.2	0.02	ES
	12/15/2000	Vinyl chloride	0.66 ug/L	0.2	0.02	ES
<b>P9B</b>						
	3/23/2000	1,1,1-Trichloroethane	0.86 ug/L	200	40	
	12/15/2000	1,1,1-Trichloroethane	0.6 ug/L	200	40	
	3/23/2000	1,1,2-Trichlorotrifluoroethane	8.7 ug/L			
	6/21/2000	1,1,2-Trichlorotrifluoroethane	12 ug/L			
	9/13/2000	1,1,2-Trichlorotrifluoroethane	15 ug/L			
	12/15/2000	1,1,2-Trichlorotrifluoroethane	16 ug/L			
	6/21/2000	Alkalinity as CaCO3	350 mg/L			
	12/15/2000	Alkalinity as CaCO3	340 mg/L			
	12/15/2000	Arsenic - Dissolved	0.47 ug/L	50	5	
	3/23/2000	Barium - Dissolved	98 ug/L	2000	400	
	6/21/2000	Barium - Dissolved	85 ug/L	2000	400	
	12/15/2000	Barium - Dissolved	86 ug/L	2000	400	
	6/21/2000	Chloride	42 mg/L	250	125	
	12/15/2000	Chloride	39 mg/L	250	125	
	6/21/2000	Chromium - Dissolved	1 ug/L	100	10	
	12/15/2000	Chromium - Dissolved	0.36 ug/L	100	10	
	9/13/2000	cis-1,2-Dichloroethene	0.41 ug/L	70	7	
	12/15/2000	cis-1,2-Dichloroethene	0.44 ug/L	70	7	
	12/15/2000	Methylene chloride	0.57 ug/L	5	0.5	PAL
	6/21/2000	Nitrogen, nitrate	1 mg/L	10	2	
	6/21/2000	Selenium - Dissolved	3 ug/L	50	10	
	12/15/2000	Selenium - Dissolved	1.4 ug/L	50	10	
	3/23/2000	Trichloroethene	1.2 ug/L	5	0.5	PAL
	6/21/2000	Trichloroethene	2 ug/L	5	0.5	PAL
	9/13/2000	Trichloroethene	2.8 ug/L	5	0.5	PAL
	12/15/2000	Trichloroethene	3.4 ug/L	5	0.5	PAL
	12/15/2000	Vinyl chloride	0.22 ug/L	0.2	0.02	ES

"D" in well name indicates a duplicate sample.

The Exceedence column indicates the standard, either ES or PAL, if the result is above the standard.

A complete list of results with non-detects and flags is included in WDNR electronic format.

**APPENDIX E**  
**MANN-KENDALL STATISTICAL ANALYSES**

State of Wisconsin  
 Department of Natural Resources  
 Remediation and Redevelopment Program

Mann-Kendall Statistical Test  
 Form 4400-215 (5/2000)

Notice: This form is provided to consultants as an optional tool to be used to provide groundwater contaminant data required to support site closure requests under s. Comm 46.07 or s. NH 746.07, Wis. Adm. Code. Use this form or a manual method to calculate the Mann-Kendall statistic, as specified in Appendix A of ch. Comm 46 and ch. NH 746, Wis. Adm. Code.

Instructions: To use the spreadsheet, provide at least four rounds and not more than 10 rounds of data. Use cells with yellow background for data entry. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at an 80% confidence level. If an increasing or decreasing trend is not present, use an additional coefficient of variation test is used for stable and non-stable conditions as proposed by Wiedemeier et al, 1999. For additional information, refer to guidance in Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.

Site Name =		Grafton	Grafton	Wisconsin	BRRTS No. =	03-72-0000001	Well Number =	P2A (PN851)
Compound		TCE	trans-1,2-DCE	cis-1,2-DCE	Vinyl Chloride	Ethene	Ethane	
		Concentration	Concentration	Concentration	Concentration	Concentration	Concentration	Concentration
		(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)
Event Number	Sampling Date (most recent last)							
1	25-Jan-00	3.80	3.50	2.00	1.20	1.30	2.20	
2	24-Mar-00	32.00	2.60	26.00	0.07	1.30	2.20	
3	19-Jun-00	13.00	3.20	13.00	1.90			
4	12-Sep-00	9.90	5.80	5.80	2.50			
5	13-Dec-00	6.20	5.10	3.10	2.00			
6								
7								
8								
9								
10								
S =		-2	4	-2	6	0	0	
n =		5	5	5	5	2	2	
Average =		12.98	4.04	9.98	1.534	1.3	2.2	
Standard Deviation =		11.19696387	1.350185172	9.927839644	0.94062745	0	0	
Coefficient of Variation(CV)=		0.86263204	0.334204251	0.994773511	0.613186082	0	0	
Increasing Trend (80% Confidence)		NO	NO	NO	YES	ERROR	ERROR	
Decreasing Trend (80% Confidence)		NO	NO	NO	NO	ERROR	ERROR	
Undetermined Stable Trend, CV<=1		YES	YES	YES	NO	ERROR	ERROR	
Undetermined Non-Stable Trend, CV>1		NO	NO	NO	NO	ERROR	ERROR	
Error Check, OK if Blank						ERR, n < 4	ERR, n < 4	
Stable or Decreasing Trend at 80% Confidence Level		YES	YES	YES	NO	ERROR	ERROR	
Data Entry By =		D. Zolp		Date =	19-Feb-01	Checked By =		

State of Wisconsin  
 Department of Natural Resources  
 Remediation and Redevelopment Program

Mann-Kendall Statistical Test  
 Form 4400-215 (5/2000)

Notice: This form is provided to consultants as an optional tool to be used to provide groundwater contaminant data required to support site closure requests under s. Comm 46.07 or s. NH 746.07, Wis. Adm. Code. Use this form or a manual method to calculate the Mann-Kendall statistic, as specified in Appendix A of ch. Comm 46 and ch. NH 746, Wis. Adm. Code.

Instructions: To use the spreadsheet, provide at least four rounds and not more than 10 rounds of data. Use cells with yellow background for data entry. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" to be displayed. Data that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at an 80% confidence level. If an increasing or decreasing trend is not present, use an additional coefficient of variation test is used for stable and non-stable conditions as proposed by Wiedemeier et al, 1999. For additional information, refer to guidance in Interim Guidance on Natural Attenuation for Petroleum Hydrocarbons, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.

Site Name =		Grafton	Grafton	Wisconsin	BRTS No. =	03-72-000001	Well Number =	P2A (PN851)
Event Number	Compound	Sampling Date (most recent last)	1,1,1-TCA Concentration (leave blank if no data)	1,1-DCE Concentration (leave blank if no data)	1,1-DCA Concentration (leave blank if no data)	Vinyl Chloride Concentration (leave blank if no data)	Ethene Concentration (leave blank if no data)	Ethane Concentration (leave blank if no data)
1		25-Jan-00	0.11	0.37	24.00	1.20	1.30	2.20
2		24-Mar-00	1.20	0.37	15.00	0.07	1.30	2.20
3		19-Jun-00	3.30	0.37	55.00	1.90		
4		12-Sep-00	1.10	0.37	37.00	2.50		
5		13-Dec-00	0.11	0.37	27.00	2.00		
6								
7								
8								
9								
10								
S =			-1	0	2	6	0	0
n =			5	5	5	5	2	2
Average =			1.164	0.37	31.6	1.534	1.3	2.2
Standard Deviation =			1.302854558	0	15.2577849	0.94062745	0	0
Coefficient of Variation(CV)=			1.119290858	0	0.482841294	0.613186082	0	0
Increasing Trend (80% Confidence)			NO	NO	NO	YES	ERROR	ERROR
Decreasing Trend (80% Confidence)			NO	NO	NO	NO	ERROR	ERROR
Undetermined Stable Trend, CV<=1			NO	YES	YES	NO	ERROR	ERROR
Undetermined Non-Stable Trend, CV>1			YES	NO	NO	NO	ERROR	ERROR
Error Check, OK if Blank							ERR, n < 4	ERR, n < 4
Stable or Decreasing Trend at 80% Confidence Level			NO	YES	YES	NO	ERROR	ERROR
Data Entry By =			D. Zoip		Date =	19-Feb-01	Checked By =	



State of Wisconsin  
 Department of Natural Resources  
 Remediation and Redevelopment Program

Mann-Kendall Statistical Test  
 Form 4400-215 (5/2000)

Notice: This form is provided to consultants as an optional tool to be used to provide groundwater contaminant data required to support site closure requests under s. Comm 48.07 or s. NH 746.07, Wis. Adm. Code. Use this form or a manual method to calculate the Mann-Kendall statistic, as specified in Appendix A of ch. Comm 48 and ch. NH 746, Wis. Adm. Code.

Instructions: To use the spreadsheet, provide at least four rounds and not more than 10 rounds of data. Use cells with yellow background for data entry. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at an 80% confidence level. If an increasing or decreasing trend is not present, use an additional coefficient of variation test is used for stable and non-stable conditions as proposed by Wiedemeier et al, 1999. For additional information, refer to guidance in Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.

Site Name = Grafton Grafton Wisconsin BRTS No. = 03-72-0000001 Well Number = P2B (PN852)

Event Number	Compound	TCE Concentration (leave blank if no data)	trans-1,2-DCE Concentration (leave blank if no data)	cis-1,2-DCE Concentration (leave blank if no data)	Vinyl Chloride Concentration (leave blank if no data)	Ethene Concentration (leave blank if no data)	Ethane Concentration (leave blank if no data)
1	Sampling Date (most recent last)	210.00	9.80	530.00	370.00	6.40	23.00
2	25-Jan-00	170.00	12.00	470.00	340.00	7.70	24.00
3	24-Mar-00	210.00	12.00	600.00	450.00		24.00
4	19-Jun-00	170.00	21.00	490.00	340.00		
5	12-Sep-00	200.00	15.00	570.00	390.00		22.00
6	13-Dec-00						
7							
8							
9							
10							
S =		-2	7	2	1	1	-1
n =		5	5	5	5	2	4
Average =		192	13.96	532	378	7.05	23.25
Standard Deviation =		20.49390153	4.34833014	54.03702434	45.49725266	0.919238816	0.957427108
Coefficient of Variation(CV)=		0.10673907	0.311485173	0.101573354	0.120363102	0.130388484	0.041179661
Increasing Trend (80% Confidence)		NO	YES	NO	NO	ERROR	NO
Decreasing Trend (80% Confidence)		NO	NO	NO	NO	ERROR	NO
Undetermined Stable Trend, CV<=1		YES	NO	YES	YES	ERROR	YES
Undetermined Non-Stable Trend, CV>1		NO	NO	NO	NO	ERROR	NO
Error Check, OK if Blank						ERR, n < 4	
Stable or Decreasing Trend at 80% Confidence Level		YES	NO	YES	YES	ERROR	YES

Data Entry By = D. Zoip Date = 19-Feb-01 Checked By =

State of Wisconsin  
 Department of Natural Resources  
 Remediation and Redevelopment Program

Mann-Kendall Statistical Test  
 Form 4400-215 (5/2000)

Notice: This form is provided to consultants as an optional tool to be used to provide groundwater contaminant data required to support site closure requests under s. Comm 46.07 or s. NH 746.07, Wis. Adm. Code. Use this form or a manual method to calculate the Mann-Kendall statistic, as specified in Appendix A of ch. Comm 46 and ch. NH 746, Wis. Adm. Code.

Instructions: To use the spreadsheet, provide at least four rounds and not more than 10 rounds of data. Use cells with yellow background for data entry. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at an 80% confidence level. If an increasing or decreasing trend is not present, use an additional coefficient of variation test is used for stable and non-stable conditions as proposed by Wiedemeier et al, 1999. For additional information, refer to guidance in Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.

Site Name =		Grafton	Grafton	Wisconsin	BRRTS No. =	03-72-0000001	Well Number =	P2B (PN852)
Event Number	Sampling Date (most recent last)	1,1,1-TCA Concentration (leave blank if no data)	1,1-DCE Concentration (leave blank if no data)	1,1-DCA Concentration (leave blank if no data)	Vinyl Chloride Concentration (leave blank if no data)	Ethene Concentration (leave blank if no data)	Ethane Concentration (leave blank if no data)	
1	25-Jan-00	3.10	2.20	22.00	370.00	6.40	23.00	
2	24-Mar-00	4.80	2.90	26.00	340.00	7.70	24.00	
3	19-Jun-00	0.43	3.80	25.00	450.00	2.00	24.00	
4	12-Sep-00	2.00	2.20	24.00	340.00			
5	13-Dec-00	0.43	2.20	22.00	390.00		22.00	
6								
7								
8								
9								
10								
S =		-5	-1	-3	1	-1	-1	
n =		5	5	5	5	3	4	
Average =		2.152	2.66	23.8	378	5.366666667	23.25	
Standard Deviation =		1.861738435	0.705691151	1.788854382	45.49725266	2.987194894	0.957427108	
Coefficient of Variation(CV) =		0.865120091	0.265297425	0.075161949	0.120363102	0.556620167	0.041179661	
Increasing Trend (80% Confidence)		NO	NO	NO	NO	ERROR	NO	
Decreasing Trend (80% Confidence)		YES	NO	NO	NO	ERROR	NO	
Undetermined Stable Trend, CV<=1		NO	YES	YES	YES	ERROR	YES	
Undetermined Non-Stable Trend, CV>1		NO	NO	NO	NO	ERROR	NO	
Error Check, OK if Blank						ERR, n < 4		
Stable or Decreasing Trend at 80% Confidence Level		YES	YES	YES	YES	ERROR	YES	
Data Entry By = D. Zoip				Date = 19-Feb-01		Checked By =		



State of Wisconsin  
Department of Natural Resources  
Remediation and Redevelopment Program

Notice: This form is provided to consultants as an optional tool to be used to provide groundwater contaminant data required to support site closure requests under s. Comm 46.07 or s. NH 746.07, Wis. Adm. Code. Use this form or a manual method to calculate the Mann-Kendall statistic, as specified in Appendix A of ch. Comm 46 and ch. NH 746, Wis. Adm. Code.

Instructions: To use the spreadsheet, provide at least four rounds and not more than 10 rounds of data. Use cells with yellow background for data entry. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at an 80% confidence level. If an increasing or decreasing trend is not present, use an additional coefficient of variation test is used for stable and non-stable conditions as proposed by Wiedemeier et al, 1999. For additional information, refer to guidance in Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.

Site Name =		Grafton	Grafton	Wisconsin	BRRTS No. =	03-72-0000001	Well Number =	P3B (PN853)
Compound		TCE	trans-1,2-DCE	cis-1,2-DCE	Vinyl Chloride	Ethene	Ethane	
		Concentration	Concentration	Concentration	Concentration	Concentration	Concentration	Concentration
		(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)
Event Number	Sampling Date (most recent last)							
1	25-Jan-00	35.00	0.25	0.17	0.07	1.30	2.20	
2	23-Mar-00	32.00	0.25	0.48	0.07	1.30	2.20	
3	19-Jun-00	37.00	0.25	0.17	0.07			
4	12-Sep-00	36.00	0.25	0.17	0.07			
5	13-Dec-00	38.00	0.25	0.17	0.07			
6								
7								
8								
9								
10								
S =		6	0	-2	0	0	0	
n =		5	5	5	5	2	2	
Average =		35.6	0.25	0.232	0.07	1.3	2.2	
Standard Deviation =		2.302172887	0	0.138636215	0	0	0	
Coefficient of Variation(CV)=		0.064667778	0	0.597569891	0	0	0	
Increasing Trend (80% Confidence)		YES	NO	NO	NO	ERROR	ERROR	
Decreasing Trend (80% Confidence)		NO	NO	NO	NO	ERROR	ERROR	
Undetermined Stable Trend, CV<=1		NO	YES	YES	YES	ERROR	ERROR	
Undetermined Non-Stable Trend, CV>1		NO	NO	NO	NO	ERROR	ERROR	
Error Check, OK if Blank						ERR, n < 4	ERR, n < 4	
Stable or Decreasing Trend at 80% Confidence Level		NO	YES	YES	YES	ERROR	ERROR	
Data Entry By =		D. Zolp		Date =	19-Feb-01		Checked By =	

State of Wisconsin  
 Department of Natural Resources  
 Remediation and Redevelopment Program

Mann-Kendall Statistical Test  
 Form 4400-215 (5/2000)

Notice: This form is provided to consultants as an optional tool to be used to provide groundwater contaminant data required to support site closure requests under s. Comm 46.07 or s. NH 746.07, Wis. Adm. Code. Use this form or a manual method to calculate the Mann-Kendall statistic, as specified in Appendix A of ch. Comm 46 and ch. NH 746, Wis. Adm. Code.

Instructions: To use the spreadsheet, provide at least four rounds and not more than 10 rounds of data. Use cells with yellow background for data entry. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at an 80% confidence level. If an increasing or decreasing trend is not present, use an additional coefficient of variation test is used for stable and non-stable conditions as proposed by Wiedemeier et al, 1999. For additional information, refer to guidance in Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.

Site Name =		Grafton	Grafton	Wisconsin	BRTS No. =	03-72-0000001	Well Number =	P3B (PN853)
Compound		1,1,1-TCA	1,1-DCE	1,1-DCA	Vinyl Chloride	Ethene	Ethane	
		Concentration	Concentration	Concentration	Concentration	Concentration	Concentration	
		(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	
Event Number	Sampling Date (most recent last)							
1	25-Jan-00	0.11	0.37	0.07	0.07	1.30	2.20	
2	23-Mar-00	0.11	0.37	0.07	0.07	1.30	2.20	
3	19-Jun-00	0.11	0.37	0.07	0.07			
4	12-Sep-00	0.11	0.37	0.07	0.07			
5	13-Dec-00	0.11	0.37	0.07	0.07			
6								
7								
8								
9								
10								
S =		0	0	0	0	0	0	
n =		5	5	5	5	2	2	
Average =		0.11	0.37	0.07	0.07	1.3	2.2	
Standard Deviation =		0	0	0	0	0	0	
Coefficient of Variation (CV) =		0	0	0	0	0	0	
Increasing Trend (80% Confidence)		NO	NO	NO	NO	ERROR	ERROR	
Decreasing Trend (80% Confidence)		NO	NO	NO	NO	ERROR	ERROR	
Undetermined Stable Trend, CV<=1		YES	YES	YES	YES	ERROR	ERROR	
Undetermined Non-Stable Trend, CV>1		NO	NO	NO	NO	ERROR	ERROR	
Error Check, OK if Blank						ERR, n < 4	ERR, n < 4	
Stable or Decreasing Trend at 80% Confidence Level		YES	YES	YES	YES	ERROR	ERROR	
Data Entry By = D. Zoip		Date =		19-Feb-01	Checked By =			



State of Wisconsin  
 Department of Natural Resources  
 Remediation and Redevelopment Program

Mann-Kendall Statistical Test  
 Form 4400-215 (5/2000)

Notice: This form is provided to consultants as an optional tool to be used to provide groundwater contaminant data required to support site closure requests under s. Comm 46.07 or s. NH 746.07, Wis. Adm. Code. Use this form or a manual method to calculate the Mann-Kendall statistic, as specified in Appendix A of ch. Comm 46 and ch. NH 746, Wis. Adm. Code.

Instructions: To use the spreadsheet, provide at least four rounds and not more than 10 rounds of data. Use cells with yellow background for data entry. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" to be displayed. Water that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at an 80% confidence level. If an increasing or decreasing trend is not present, use an additional coefficient of variation test is used for stable and non-stable conditions as proposed by Wiedermeier et al, 1999. For additional information, refer to guidance in Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.

Site Name = Grafton Grafton Wisconsin BRTS No. = 03-72-0000001 Well Number = P4B (PN854)

Compound		TCE	trans-1,2-DCE	cis-1,2-DCE	Vinyl Chloride	Ethene	Ethane
		Concentration	Concentration	Concentration	Concentration	Concentration	Concentration
Event Number	Sampling Date (most recent last)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)
1	26-Jan-00	1.20	0.25	0.95	0.07	1.30	2.20
2	23-Mar-00	1.80	0.25	0.66	0.07	1.30	2.20
3	19-Jun-00	3.30	0.25	2.40	1.20		
4	12-Sep-00	5.50	0.25	4.20	1.90		
5	13-Dec-00	1.60	0.25	1.20	0.89		
6							
7							
8							
9							
10							
S =		4	0	4	5	0	0
n =		5	5	5	5	2	2
Average =		2.68	0.25	1.882	0.826	1.3	2.2
Standard Deviation =		1.765502761	0	1.455032646	0.781108187	0	0
Coefficient of Variation(CV)=		0.658769687	0	0.773131055	0.945651558	0	0
Increasing Trend (80% Confidence)		NO	NO	NO	YES	ERROR	ERROR
Decreasing Trend (80% Confidence)		NO	NO	NO	NO	ERROR	ERROR
Undetermined Stable Trend, CV<=1		YES	YES	YES	NO	ERROR	ERROR
Undetermined Non-Stable Trend, CV>1		NO	NO	NO	NO	ERROR	ERROR
Error Check, OK if Blank						ERR, n < 4	ERR, n < 4
Stable or Decreasing Trend at 80% Confidence Level		YES	YES	YES	NO	ERROR	ERROR

Data Entry By = D. Zoip Date = 19-Feb-01 Checked By =

State of Wisconsin  
 Department of Natural Resources  
 Remediation and Redevelopment Program

Mann-Kendall Statistical Test  
 Form 4400-215 (5/2000)

Notice: This form is provided to consultants as an optional tool to be used to provide groundwater contaminant data required to support site closure requests under s. Comm 46.07 or s. NH 746.07, Wis. Adm. Code. Use this form or a manual method to calculate the Mann-Kendall statistic, as specified in Appendix A of ch. Comm 46 and ch. NH 746, Wis. Adm. Code.

Instructions: To use the spreadsheet, provide at least four rounds and not more than 10 rounds of data. Use cells with yellow background for data entry. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "N/A" to be displayed. Data that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at an 80% confidence level. If an increasing or decreasing trend is not present, use an additional coefficient of variation test is used for stable and non-stable conditions as proposed by Wiedemeier et al, 1999. For additional information, refer to guidance in Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.

Site Name =		Grafton	Grafton	Wisconsin	BRTS No. =	03-72-0000001	Well Number =	P4B (PN854)
Compound		1,1,1-TCA	1,1-DCE	1,1-DCA	Vinyl Chloride	Ethene	Ethane	
		Concentration	Concentration	Concentration	Concentration	Concentration	Concentration	
		(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	
Event Number	Sampling Date (most recent last)							
1	26-Jan-00	0.11	0.37	0.07	0.07	1.30	2.20	
2	23-Mar-00	0.11	0.37	0.07	0.07	1.30	2.20	
3	19-Jun-00	0.11	0.37	0.07	1.20			
4	12-Sep-00	0.11	0.37	0.07	1.90			
5	13-Dec-00	0.11	0.37	0.07	0.89			
6								
7								
8								
9								
10								
S =		0	0	0	5	0	0	
n =		5	5	5	5	2	2	
Average =		0.11	0.37	0.07	0.826	1.3	2.2	
Standard Deviation =		0	0	0	0.781108187	0	0	
Coefficient of Variation(CV)=		0	0	0	0.945651558	0	0	
Increasing Trend (80% Confidence)		NO	NO	NO	YES	ERROR	ERROR	
Decreasing Trend (80% Confidence)		NO	NO	NO	NO	ERROR	ERROR	
Undetermined Stable Trend, CV<=1		YES	YES	YES	NO	ERROR	ERROR	
Undetermined Non-Stable Trend, CV>1		NO	NO	NO	NO	ERROR	ERROR	
Error Check, OK if Blank							ERR, n < 4	ERR, n < 4
Stable or Decreasing Trend at 80% Confidence Level		YES	YES	YES	NO	ERROR	ERROR	
Data Entry By =		D. Zolp		Date =	19-Feb-01		Checked By =	



State of Wisconsin  
 Department of Natural Resources  
 Remediation and Redevelopment Program

Mann-Kendall Statistical Test  
 Form 4400-215 (5/2000)

Notice: This form is provided to consultants as an optional tool to be used to provide groundwater contaminant data required to support site closure requests under s. Comm 46.07 or s. NH 746.07, Wis. Adm. Code. Use this form or a manual method to calculate the Mann-Kendall statistic, as specified in Appendix A of ch. Comm 46 and ch. NH 746, Wis. Adm. Code.

Instructions: To use the spreadsheet, provide at least four rounds and not more than 10 rounds of data. Use cells with yellow background for data entry. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at an 80% confidence level. If an increasing or decreasing trend is not present, use an additional coefficient of variation test is used for stable and non-stable conditions as proposed by Wiedemeier et al, 1999. For additional information, refer to guidance in Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.

Site Name =		Grafton	Grafton	Wisconsin	BRTS No. =	03-72-0000001	Well Number =	P7B(1Z392)
Compound		TCE	trans-1,2-DCE	cis-1,2-DCE	Vinyl Chloride	Ethene	Ethane	
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	26-Jan-00							
2	23-Mar-00	0.90	0.25	0.17	0.07	1.30	2.20	
3	22-Jun-00	1.10	0.25	0.17	0.07			
4	14-Sep-00	1.10	0.25	0.58	0.07			
5	13-Dec-00	0.75	0.25	0.53	0.35			
6								
7								
8								
9								
10								
S =		-1	0	3	3	0	0	
n =		4	4	4	4	1	1	
Average =		0.9625	0.25	0.3625	0.14	1.3	2.2	
Standard Deviation =		0.170171482	0	0.223215143	0.14	#DIV/0!	#DIV/0!	
Coefficient of Variation(CV)=		0.17680154	0	0.615765911	1	#DIV/0!	#DIV/0!	
Increasing Trend (80% Confidence)		NO	NO	NO	NO	ERROR	ERROR	
Decreasing Trend (80% Confidence)		NO	NO	NO	NO	ERROR	ERROR	
Undetermined Stable Trend, CV<=1		YES	YES	YES	YES	ERROR	ERROR	
Undetermined Non-Stable Trend, CV>1		NO	NO	NO	NO	ERROR	ERROR	
Error Check, OK if Blank						ERR, n < 4	ERR, n < 4	
Stable or Decreasing Trend at 80% Confidence Level		YES	YES	YES	YES	ERROR	ERROR	
Data Entry By = D. Zoip				Date =	19-Feb-01	Checked By =		

State of Wisconsin  
 Department of Natural Resources  
 Remediation and Redevelopment Program

Mann-Kendall Statistical Test  
 Form 4400-215 (5/2000)

Notice: This form is provided to consultants as an optional tool to be used to provide groundwater contaminant data required to support site closure requests under s. Comm 46.07 or s. NH 746.07, Wis. Adm. Code. Use this form or a manual method to calculate the Mann-Kendall statistic, as specified in Appendix A of ch. Comm 46 and ch. NH 746, Wis. Adm. Code.

Instructions: To use the spreadsheet, provide at least four rounds and not more than 10 rounds of data. Use cells with yellow background for data entry. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" to be displayed. Lists that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at an 80% confidence level. If an increasing or decreasing trend is not present, use an additional coefficient of variation test is used for stable and non-stable conditions as proposed by Wiedemeier et al, 1999. For additional information, refer to guidance in Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.

Site Name =		Grafton	Grafton	Wisconsin	BRRTS No. =	03-72-0000001	Well Number =	P7B(LZ392)
Compound		1,1,1-TCA	1,1-DCE	1,1-DCA	Vinyl Chloride	Ethene	Ethane	
		Concentration	Concentration	Concentration	Concentration	Concentration	Concentration	
		(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	
Event Number	Sampling Date (most recent last)							
1	26-Jan-00							
2	23-Mar-00	0.11	0.37	0.07	0.07	1.30	2.20	
3	22-Jun-00	0.11	0.37	0.07	0.07			
4	14-Sep-00	0.11	0.37	0.07	0.07			
5	13-Dec-00	0.11	0.37	0.07	0.35			
6								
7								
8								
9								
10								
S =		0	0	0	3	0	0	
n =		4	4	4	4	1	1	
Average =		0.11	0.37	0.07	0.14	1.3	2.2	
Standard Deviation =		0	0	0	0.14	#DIV/0!	#DIV/0!	
Coefficient of Variation(CV)=		0	0	0	1	#DIV/0!	#DIV/0!	
Increasing Trend (80% Confidence)		NO	NO	NO	NO	ERROR	ERROR	
Decreasing Trend (80% Confidence)		NO	NO	NO	NO	ERROR	ERROR	
Undetermined Stable Trend, CV<=1		YES	YES	YES	YES	ERROR	ERROR	
Undetermined Non-Stable Trend, CV>1		NO	NO	NO	NO	ERROR	ERROR	
Error Check, OK if Blank						ERR, n < 4	ERR, n < 4	
Stable or Decreasing Trend at 80% Confidence Level		YES	YES	YES	YES	ERROR	ERROR	
Data Entry By =		D. Zoip		Date =	19-Feb-01	Checked By =		

State of Wisconsin  
 Department of Natural Resources  
 Remediation and Redevelopment Program

Mann-Kendall Statistical Test  
 Form 4400-215 (5/2000)

Notice: This form is provided to consultants as an optional tool to be used to provide groundwater contaminant data required to support site closure requests under s. Comm 46.07 or s. NH 746.07, Wis. Adm. Code. Use this form or a manual method to calculate the Mann-Kendall statistic, as specified in Appendix A of ch. Comm 46 and ch. NH 746, Wis. Adm. Code.

Instructions: To use the spreadsheet, provide at least four rounds and not more than 10 rounds of data. Use cells with yellow background for data entry. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at an 80% confidence level. If an increasing or decreasing trend is not present, use an additional coefficient of variation test is used for stable and non-stable conditions as proposed by Wiedemeier et al, 1999. For additional information, refer to guidance in Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.

Site Name =		Grafton	Grafton	Wisconsin	BRRTS No. =	03-72-0000001	Well Number =	P8A(12342)
Compound		TCE	trans-1,2-DCE	cis-1,2-DCE	Vinyl Chloride	Ethene	Ethane	
		Concentration	Concentration	Concentration	Concentration	Concentration	Concentration	Concentration
Event Number	Sampling Date (most recent last)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)
1	26-Jan-00							
2	23-Mar-00	69.00	1.60	120.00	37.00	1.30	2.20	
3	21-Jun-00	76.00	1.40	140.00	28.00			
4	13-Sep-00	88.00	1.60	150.00	11.00			
5	18-Dec-00	93.00	3.50	150.00	14.00			
6								
7								
8								
9								
10								
S =		6	3	5	-4	0	0	
n =		4	4	4	4	1	1	
Average =		81.5	2.025	140	22.5	1.3	2.2	
Standard Deviation =		10.96965511	0.987842768	14.14213562	12.17921727	#DIV/0!	#DIV/0!	
Coefficient of Variation(CV)=		0.134596995	0.487823589	0.101015254	0.541298545	#DIV/0!	#DIV/0!	
Increasing Trend (80% Confidence)		YES	NO	YES	NO	ERROR	ERROR	
Decreasing Trend (80% Confidence)		NO	NO	NO	YES	ERROR	ERROR	
Undetermined Stable Trend, CV<=1		NO	YES	NO	NO	ERROR	ERROR	
Undetermined Non-Stable Trend, CV>1		NO	NO	NO	NO	ERROR	ERROR	
Error Check, OK if Blank						ERR, n < 4	ERR, n < 4	
Stable or Decreasing Trend at 80% Confidence Level		NO	YES	NO	YES	ERROR	ERROR	
Data Entry By =		D. Zoip		Date =	19-Feb-01		Checked By =	



State of Wisconsin  
 Department of Natural Resources  
 Remediation and Redevelopment Program

Mann-Kendall Statistical Test  
 Form 4400-215 (5/2000)

Notice: This form is provided to consultants as an optional tool to be used to provide groundwater contaminant data required to support site closure requests under s. Comm 46.07 or s. NH 746.07, Wis. Adm. Code. Use this form or a manual method to calculate the Mann-Kendall statistic, as specified in Appendix A of ch. Comm 46 and ch. NH 746, Wis. Adm. Code.

Instructions: To use the spreadsheet, provide at least four rounds and not more than 10 rounds of data. Use cells with yellow background for data entry. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at an 80% confidence level. If an increasing or decreasing trend is not present, use an additional coefficient of variation test is used for stable and non-stable conditions as proposed by Wiedemeier et al, 1999. For additional information, refer to guidance in Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.

Site Name =		Grafton	Grafton	Wisconsin	BRRTS No. =	03-72-0000001	Well Number =	P8A(I2342)
Compound		1,1,1-TCA Concentration (leave blank if no data)	1,1-DCE Concentration (leave blank if no data)	1,1-DCA Concentration (leave blank if no data)	Vinyl Chloride Concentration (leave blank if no data)	Ethene Concentration (leave blank if no data)	Ethane Concentration (leave blank if no data)	
Event Number	Sampling Date (most recent last)							
1	26-Jan-00							
2	23-Mar-00	12.00	3.90	35.00	37.00	1.30	2.20	
3	21-Jun-00	10.00	4.40	38.00	28.00			
4	13-Sep-00	13.00	3.70	41.00	11.00			
5	18-Dec-00	12.00	3.10	43.00	14.00			
6								
7								
8								
9								
10								
S =		1	-4	6	-4	0	0	
n =		4	4	4	4	1	1	
Average =		11.75	3.775	39.25	22.5	1.3	2.2	
Standard Deviation =		1.258306739	0.537742193	3.5	12.17921727	#DIV/0!	#DIV/0!	
Coefficient of Variation(CV)=		0.10708985	0.142448263	0.089171975	0.541298545	#DIV/0!	#DIV/0!	
Increasing Trend (80% Confidence)		NO	NO	YES	NO	ERROR	ERROR	
Decreasing Trend (80% Confidence)		NO	YES	NO	YES	ERROR	ERROR	
Undetermined Stable Trend, CV<=1		YES	NO	NO	NO	ERROR	ERROR	
Undetermined Non-Stable Trend, CV>1		NO	NO	NO	NO	ERROR	ERROR	
Error Check, OK if Blank						ERR, n < 4	ERR, n < 4	
Stable or Decreasing Trend at 80% Confidence Level		YES	YES	NO	YES	ERROR	ERROR	
Data Entry By =	D. Zoip		Date =	19-Feb-01	Checked By =			

State of Wisconsin  
Department of Natural Resources  
Remediation and Redevelopment Program

Notice: This form is provided to consultants as an optional tool to be used to provide groundwater contaminant data required to support site closure requests under s. Comm 46.07 or s. NH 746.07, Wis. Adm. Code. Use this form or a manual method to calculate the Mann-Kendall statistic, as specified in Appendix A of ch. Comm 46 and ch. NH 746, Wis. Adm. Code.

Instructions: To use the spreadsheet, provide at least four rounds and not more than 10 rounds of data. Use cells with yellow background for data entry. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" to be displayed. User that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at an 80% confidence level. If an increasing or decreasing trend is not present, an additional coefficient of variation test is used for stable and non-stable conditions as proposed by Wiedermeier et al, 1999. For additional information, refer to guidance in Interim Guidance on Natural Attenuation for Petroleum Hydrocarbons, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.

Site Name =		Grafton	Grafton	Wisconsin	BRTS No. =	03-72-0000001	Well Number =	P8B(LZ342)
Compound	TCE	trans-1,2-DCE	cis-1,2-DCE	Vinyl Chloride	Ethene	Ethane		
	Concentration	Concentration	Concentration	Concentration	Concentration	Concentration		
	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)		
Event Number	Sampling Date (most recent last)							
1	26-Jan-00							
2	23-Mar-00	51.00	0.54	69.00	0.07	1.30		2.20
3	22-Jun-00	89.00	0.77	98.00	0.29			
4	13-Sep-00	95.00	1.90	130.00	0.77			
5	18-Dec-00	100.00	0.97	150.00	0.66			
6								
7								
8								
9								
10								
S =		6	4	6	4	0		0
n =		4	4	4	4	1		1
Average =		83.75	1.045	111.75	0.4475	1.3		2.2
Standard Deviation =		22.29162773	0.59646179	35.64991819	0.324794807	#DIV/0!		#DIV/0!
Coefficient of Variation(CV):		0.266168689	0.570776832	0.319014928	0.725798451	#DIV/0!		#DIV/0!
Increasing Trend (80% Confidence)		YES	YES	YES	YES	ERROR		ERROR
Decreasing Trend (80% Confidence)		NO	NO	NO	NO	ERROR		ERROR
Undetermined Stable Trend, CV<=1		NO	NO	NO	NO	ERROR		ERROR
Undetermined Non-Stable Trend, CV>1		NO	NO	NO	NO	ERROR		ERROR
Error Check, OK if Blank						ERR, n < 4		ERR, n < 4
Stable or Decreasing Trend at 80% Confidence Level		NO	NO	NO	NO	ERROR		ERROR
Data Entry By =	D. Zoip	Date =	19-Feb-01	Checked By =				

State of Wisconsin  
 Department of Natural Resources  
 Remediation and Redevelopment Program

Mann-Kendall Statistical Test  
 Form 4400-215 (5/2000)

Notice: This form is provided to consultants as an optional tool to be used to provide groundwater contaminant data required to support site closure requests under s. Comm 46.07 or s. NH 746.07, Wis. Adm. Code. Use this form or a manual method to calculate the Mann-Kendall statistic, as specified in Appendix A of ch. Comm 46 and ch. NH 746, Wis. Adm. Code.

Instructions: To use the spreadsheet, provide at least four rounds and not more than 10 rounds of data. Use cells with yellow background for data entry. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" to be displayed. Data that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at an 80% confidence level. If an increasing or decreasing trend is not present, use an additional coefficient of variation test is used for stable and non-stable conditions as proposed by Wiedemeier et al, 1999. For additional information, refer to guidance in Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.

Site Name = Grafton Grafton Wisconsin BRRTS No. = 03-72-0000001 Well Number = P8B(LZ342)

Event Number	Sampling Date (most recent last)	1,1,1-TCA Concentration (leave blank if no data)	1,1-DCE Concentration (leave blank if no data)	1,1-DCA Concentration (leave blank if no data)	Vinyl Chloride Concentration (leave blank if no data)	Ethene Concentration (leave blank if no data)	Ethane Concentration (leave blank if no data)
1	26-Jan-00						
2	23-Mar-00	0.43	0.37	0.51	0.07	1.30	2.20
3	22-Jun-00	1.20	0.37	0.96	0.29		
4	13-Sep-00	1.10	0.37	1.00	0.77		
5	18-Dec-00	1.40	0.37	0.98	0.66		
6							
7							
8							
9							
10							
S =		4	0	4	4	0	0
n =		4	4	4	4	1	1
Average =		1.0325	0.37	0.8625	0.4475	1.3	2.2
Standard Deviation =		0.42058491	0	0.235566693	0.324794807	#DIV/0!	#DIV/0!
Coefficient of Variation(CV)=		0.40734616	0	0.273120803	0.725798451	#DIV/0!	#DIV/0!
Increasing Trend (80% Confidence)		YES	NO	YES	YES	ERROR	ERROR
Decreasing Trend (80% Confidence)		NO	NO	NO	NO	ERROR	ERROR
Undetermined Stable Trend, CV<=1		NO	YES	NO	NO	ERROR	ERROR
Undetermined Non-Stable Trend, CV>1		NO	NO	NO	NO	ERROR	ERROR
Error Check, OK if Blank						ERR, n < 4	ERR, n < 4
Stable or Decreasing Trend at 80% Confidence Level		NO	YES	NO	NO	ERROR	ERROR

Data Entry By = D. Zolp Date = 19-Feb-01 Checked By =



State of Wisconsin  
 Department of Natural Resources  
 Remediation and Redevelopment Program

Mann-Kendall Statistical Test  
 Form 4400-215 (5/2000)

Notice: This form is provided to consultants as an optional tool to be used to provide groundwater contaminant data required to support site closure requests under s. Comm 46.07 or s. NH 746.07, Wis. Adm. Code. Use this form or a manual method to calculate the Mann-Kendall statistic, as specified in Appendix A of ch. Comm 46 and ch. NH 746, Wis. Adm. Code.

Instructions: To use the spreadsheet, provide at least four rounds and not more than 10 rounds of data. Use cells with yellow background for data entry. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at an 80% confidence level. If an increasing or decreasing trend is not present, use an additional coefficient of variation test is used for stable and non-stable conditions as proposed by Wiedemeier et al, 1999. For additional information, refer to guidance in Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.

Site Name =		Grafton	Grafton	Wisconsin	BRTS No. =	03-72-0000001	Well Number =	P9B(LZ400)
Compound		TCE	trans-1,2-DCE	cis-1,2-DCE	Vinyl Chloride	Ethene	Ethane	
		Concentration	Concentration	Concentration	Concentration	Concentration	Concentration	
		(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	
Event Number	Sampling Date (most recent last)							
1	26-Jan-00							
2	23-Mar-00	1.20	0.25	0.36	0.07	1.30	2.20	
3	21-Jun-00	2.20	0.25	0.36	0.07			
4	13-Sep-00	2.80	0.25	0.41	0.07			
5	15-Dec-00	3.40	0.25	0.44	0.22			
6								
7								
8								
9								
10								
S =		6	0	5	3	0	0	
n =		4	4	4	4	1	1	
Average =		2.4	0.25	0.3925	0.1075	1.3	2.2	
Standard Deviation =		0.938083152	0	0.039475731	0.075	#DIV/0!	#DIV/0!	
Coefficient of Variation(CV)=		0.39086798	0	0.100575111	0.697674419	#DIV/0!	#DIV/0!	
Increasing Trend (80% Confidence)		YES	NO	YES	NO	ERROR	ERROR	
Decreasing Trend (80% Confidence)		NO	NO	NO	NO	ERROR	ERROR	
Undetermined Stable Trend, CV<=1		NO	YES	NO	YES	ERROR	ERROR	
Undetermined Non-Stable Trend, CV>1		NO	NO	NO	NO	ERROR	ERROR	
Error Check, OK if Blank						ERR, n < 4	ERR, n < 4	
Stable or Decreasing Trend at 80% Confidence Level		NO	YES	NO	YES	ERROR	ERROR	
Data Entry By =		D. Zoip		Date =	19-Feb-01	Checked By =		

State of Wisconsin  
 Department of Natural Resources  
 Remediation and Redevelopment Program

Mann-Kendall Statistical Test  
 Form 4400-215 (5/2000)

Notice: This form is provided to consultants as an optional tool to be used to provide groundwater contaminant data required to support site closure requests under s. Comm 46.07 or s. NH 746.07, Wis. Adm. Code. Use this form or a manual method to calculate the Mann-Kendall statistic, as specified in Appendix A of ch. Comm 46 and ch. NH 746, Wis. Adm. Code.

Instructions: To use the spreadsheet, provide at least four rounds and not more than 10 rounds of data. Use cells with yellow background for data entry. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at an 80% confidence level. If an increasing or decreasing trend is not present, use an additional coefficient of variation test is used for stable and non-stable conditions as proposed by Wiedemeier et al, 1999. For additional information, refer to guidance in Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.

Site Name =		Grafton	Grafton	Wisconsin	BRRTS No. =	03-72-0000001	Well Number =	P9B(LZ400)
Compound		1,1,1-TCA	1,1-DCE	1,1-DCA	Vinyl Chloride	Ethene	Ethane	
		Concentration	Concentration	Concentration	Concentration	Concentration	Concentration	Concentration
		(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)
Event Number	Sampling Date (most recent last)							
1	26-Jan-00							
2	23-Mar-00	0.86	0.37	0.07	0.07	1.30	2.20	
3	21-Jun-00	0.11	0.37	0.07	0.07			
4	13-Sep-00	0.11	0.37	0.07	0.07			
5	15-Dec-00	0.11	0.37	0.07	0.22			
6								
7								
8								
9								
10								
S =		-3	0	0	3	0	0	
n =		4	4	4	4	1	1	
Average =		0.2975	0.37	0.07	0.1075	1.3	2.2	
Standard Deviation =		0.375	0	0	0.075	#DIV/0!	#DIV/0!	
Coefficient of Variation(CV)=		1.260504202	0	0	0.697674419	#DIV/0!	#DIV/0!	
Increasing Trend (80% Confidence)		NO	NO	NO	NO	ERROR	ERROR	
Decreasing Trend (80% Confidence)		NO	NO	NO	NO	ERROR	ERROR	
Undetermined Stable Trend, CV<=1		NO	YES	YES	YES	ERROR	ERROR	
Undetermined Non-Stable Trend, CV>1		YES	NO	NO	NO	ERROR	ERROR	
Error Check, OK if Blank						ERR, n < 4	ERR, n < 4	
Stable or Decreasing Trend at 80% Confidence Level		NO	YES	YES	YES	ERROR	ERROR	
Data Entry By =		D. Zoip		Date =	19-Feb-01	Checked By =		

State of Wisconsin  
 Department of Natural Resources  
 Remediation and Redevelopment Program

Mann-Kendall Statistical Test  
 Form 4400-215 (5/2000)

Notice: This form is provided to consultants as an optional tool to be used to provide groundwater contaminant data required to support site closure requests under s. Comm 46.07 or s. NH 746.07, Wis. Adm. Code. Use this form or a manual method to calculate the Mann-Kendall statistic, as specified in Appendix A of ch. Comm 46 and ch. NH 746, Wis. Adm. Code.

Instructions: To use the spreadsheet, provide at least four rounds and not more than 10 rounds of data. Use cells with yellow background for data entry. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at an 80% confidence level. If an increasing or decreasing trend is not present, use an additional coefficient of variation test is used for stable and non-stable conditions as proposed by Wiedemeier et al, 1999. For additional information, refer to guidance in Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.

Site Name = Grafton Grafton Wisconsin BRTS No. = 03-72-0000001 Well Number = LW-1 (PN855)

Event Number	Compound	TCE Concentration (leave blank if no data)	trans-1,2-DCE Concentration (leave blank if no data)	cis-1,2-DCE Concentration (leave blank if no data)	Vinyl Chloride Concentration (leave blank if no data)	Ethene Concentration (leave blank if no data)	Ethane Concentration (leave blank if no data)
1	Sampling Date (most recent last) 26-Jan-00	29.00	5.00	120.00	130.00	1.30	5.20
2	24-Mar-00	29.00	4.00	110.00	120.00	1.30	3.70
3	21-Jun-00	27.00	5.00	120.00	130.00		
4	13-Sep-00	27.00	4.80	140.00	150.00		
5	15-Dec-00	25.00	5.10	120.00	130.00		
6							
7							
8							
9							
10							
S =		-8	3	3	3	0	-1
n =		5	5	5	5	2	2
Average =		27.4	4.78	122	132	1.3	4.45
Standard Deviation =		1.673320053	0.449444101	10.95445115	10.95445115	0	1.060660172
Coefficient of Variation(CV)=		0.061070075	0.094025963	0.089790583	0.082988266	0	0.2383506
Increasing Trend (80% Confidence)		NO	NO	NO	NO	ERROR	ERROR
Decreasing Trend (80% Confidence)		YES	NO	NO	NO	ERROR	ERROR
Undetermined Stable Trend, CV<=1		NO	YES	YES	YES	ERROR	ERROR
Undetermined Non-Stable Trend, CV>1		NO	NO	NO	NO	ERROR	ERROR
Error Check, OK if Blank						ERR, n < 4	ERR, n < 4
Stable or Decreasing Trend at 80% Confidence Level		YES	YES	YES	YES	ERROR	ERROR
Data Entry By =	D. Zoip	Date =	10-Apr-01	Checked By =			



State of Wisconsin  
 Department of Natural Resources  
 Remediation and Redevelopment Program

Mann-Kendall Statistical Test  
 Form 4400-215 (5/2000)

Notice: This form is provided to consultants as an optional tool to be used to provide groundwater contaminant data required to support site closure requests under s. Comm 46.07 or s. NH 746.07, Wis. Adm. Code. Use this form or a manual method to calculate the Mann-Kendall statistic, as specified in Appendix A of ch. Comm 46 and ch. NH 746, Wis. Adm. Code.

Instructions: To use the spreadsheet, provide at least four rounds and not more than 10 rounds of data. Use cells with yellow background for data entry. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" to be displayed. Data that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at an 80% confidence level. If an increasing or decreasing trend is not present, use an additional coefficient of variation test is used for stable and non-stable conditions as proposed by Wiedermeier et al, 1999. For additional information, refer to guidance in Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.

Site Name = Grafton Grafton Wisconsin BRRTS No. = 03-72-000001 Well Number = LW-1 (PN855)

Event Number	Compound	Sampling Date (most recent last)	1,1,1-TCA Concentration (leave blank if no data)	1,1-DCE Concentration (leave blank if no data)	1,1-DCA Concentration (leave blank if no data)	Vinyl Chloride Concentration (leave blank if no data)	Ethene Concentration (leave blank if no data)	Ethane Concentration (leave blank if no data)
1		26-Jan-00	0.11	1.30	8.00	130.00	1.30	5.20
2		24-Mar-00	0.11	1.60	8.00	120.00	1.30	3.70
3		21-Jun-00	0.11	1.30	4.00	130.00		
4		13-Sep-00	0.11	1.50	6.20	150.00		
5		15-Dec-00	0.11	1.30	5.00	130.00		
6								
7								
8								
9								
10								
S =			0	-1	-5	3	0	-1
n =			5	5	5	5	2	2
Average =			0.11	1.4	6.24	132	1.3	4.45
Standard Deviation =			0	0.141421356	1.78549713	10.95445115	0	1.060660172
Coefficient of Variation(CV)=			0	0.101015254	0.286137361	0.082988266	0	0.2383506
Increasing Trend (80% Confidence)			NO	NO	NO	NO	ERROR	ERROR
Decreasing Trend (80% Confidence)			NO	NO	YES	NO	ERROR	ERROR
Undetermined Stable Trend, CV<=1			YES	YES	NO	YES	ERROR	ERROR
Undetermined Non-Stable Trend, CV>1			NO	NO	NO	NO	ERROR	ERROR
Error Check, OK if Blank							ERR, n < 4	ERR, n < 4
Stable or Decreasing Trend at 80% Confidence Level			YES	YES	YES	YES	ERROR	ERROR

Data Entry By = D. Zoip

Date = 13-Feb-01

Checked By =

State of Wisconsin  
 Department of Natural Resources  
 Remediation and Redevelopment Program

Mann-Kendall Statistical Test  
 Form 4400-215 (5/2000)

Notice: This form is provided to consultants as an optional tool to be used to provide groundwater contaminant data required to support site closure requests under s. Comm 46.07 or s. NH 746.07, Wis. Adm. Code. Use this form or a manual method to calculate the Mann-Kendall statistic, as specified in Appendix A of ch. Comm 46 and ch. NH 746, Wis. Adm. Code.

Instructions: To use the spreadsheet, provide at least four rounds and not more than 10 rounds of data. Use cells with yellow background for data entry. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at an 80% confidence level. If an increasing or decreasing trend is not present, use an additional coefficient of variation test is used for stable and non-stable conditions as proposed by Wiedemeier et al, 1999. For additional information, refer to guidance in Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.

Site Name = Grafton Grafton Wisconsin BRRTS No. = 03-72-0000001 Well Number = LW-2 (PN856)

Event Number	Sampling Date (most recent last)	Compound	TCE Concentration (leave blank if no data)	trans-1,2-DCE Concentration (leave blank if no data)	cis-1,2-DCE Concentration (leave blank if no data)	Vinyl Chloride Concentration (leave blank if no data)	Ethene Concentration (leave blank if no data)	Ethane Concentration (leave blank if no data)
1	26-Jan-00		20.00	1.00	40.00	4.00	1.30	2.20
2	24-Mar-00		20.00	2.00	31.00	6.00	1.30	2.20
3	21-Jun-00		6.00	1.00	46.00	45.00		46.00
4	13-Sep-00		7.60	4.40	97.00	200.00		
5	15-Dec-00		13.00	4.60	94.00	150.00		
6								
7								
8								
9								
10								
S =			3	7	6	8	0	2
n =			5	5	5	5	2	3
Average =			13.32	2.6	61.6	81	1.3	16.8
Standard Deviation =			6.626613011	1.78325545	31.42133033	89.12350981	0	25.28794179
Coefficient of Variation(CV) =			0.497493469	0.685867481	0.510086531	1.100290245	0	1.50523463
Increasing Trend (80% Confidence)			NO	YES	YES	YES	ERROR	ERROR
Decreasing Trend (80% Confidence)			NO	NO	NO	NO	ERROR	ERROR
Undetermined Stable Trend, CV<=1			YES	NO	NO	NO	ERROR	ERROR
Undetermined Non-Stable Trend, CV>1			NO	NO	NO	NO	ERROR	ERROR
Error Check, OK if Blank							ERR, n < 4	ERR, n < 4
Stable or Decreasing Trend at 80% Confidence Level			YES	NO	NO	NO	ERROR	ERROR

Data Entry By = D. Zoip

Date =

13-Feb-01

Checked By =

State of Wisconsin  
 Department of Natural Resources  
 Remediation and Redevelopment Program

Mann-Kendall Statistical Test  
 Form 4400-215 (5/2000)

Notice: This form is provided to consultants as an optional tool to be used to provide groundwater contaminant data required to support site closure requests under s. Comm 46.07 or s. NH 746.07, Wis. Adm. Code. Use this form or a manual method to calculate the Mann-Kendall statistic, as specified in Appendix A of ch. Comm 46 and ch. NH 746, Wis. Adm. Code.

Instructions: To use the spreadsheet, provide at least four rounds and not more than 10 rounds of data. Use cells with yellow background for data entry. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at an 80% confidence level. If an increasing or decreasing trend is not present, use an additional coefficient of variation test is used for stable and non-stable conditions as proposed by Wiedemeier et al, 1999. For additional information, refer to guidance in Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.

Site Name =		Grafton	Grafton	Wisconsin	BRRTS No. =	03-72-0000001	Well Number =	LW-2 (PN856)
Event Number	Sampling Date (most recent last)	1,1,1-TCA Concentration (leave blank if no data)	1,1-DCE Concentration (leave blank if no data)	1,1-DCA Concentration (leave blank if no data)	Vinyl Chloride Concentration (leave blank if no data)	Ethene Concentration (leave blank if no data)	Ethane Concentration (leave blank if no data)	
1	26-Jan-00	0.82	0.37	84.00	4.00			
2	24-Mar-00	1.50	0.37	80.00	6.00			
3	21-Jun-00	0.43	0.82	63.00	45.00			
4	13-Sep-00	0.11	0.75	4.80	200.00			
5	13-Dec-00	0.11	0.88	5.10	150.00			
6								
7								
8								
9								
10								
S =		-7	7	-8	8	0	0	
n =		5	5	5	5	0	0	
Average =		0.594	0.638	47.38	81	#DIV/0!	#DIV/0!	
Standard Deviation =		0.584662296	0.248937743	39.5276106	89.12350981	#DIV/0!	#DIV/0!	
Coefficient of Variation(CV)=		0.984279959	0.390184551	0.834267847	1.100290245	#DIV/0!	#DIV/0!	
Increasing Trend (80% Confidence)		NO	YES	NO	YES	ERROR	ERROR	
Decreasing Trend (80% Confidence)		YES	NO	YES	NO	ERROR	ERROR	
Undetermined Stable Trend, CV<=1		NO	NO	NO	NO	ERROR	ERROR	
Undetermined Non-Stable Trend, CV>1		NO	NO	NO	NO	ERROR	ERROR	
Error Check, OK if Blank						ERR, n < 4	ERR, n < 4	
Stable or Decreasing Trend at 80% Confidence Level		YES	NO	YES	NO	ERROR	ERROR	
Data Entry By =		D. Zoip		Date =	13-Feb-01	Checked By =		



**APPENDIX F**  
**REVISED MONITORING PLAN**

## APPENDIX F

### REVISED MONITORING PLAN - 2001 VILLAGE OF GRAFTON

#### Parameter List

Analysis A. VOCs  
Analysis B. Natural Attenuation Parameters - Methane, Ethane, Ethene, Chloride, Nitrate  
Analysis C. Indicator Parameters - DO, ORP, pH, Temperature, Conductivity, Alkalinity

#### Well Groups

##### Well List 1

LH-01 - Groundwater within waste  
LH-02 - Groundwater within waste  
P2A - Downgradient of landfill  
P2B - Downgradient of landfill  
P4B - Upgradient of landfill  
P7B - Downgradient of landfill  
P8A - Downgradient of landfill  
P8B - (formerly PW1749) - Downgradient degree of plume  
P3B - Sidegradient of landfill - west side  
P9B - (formerly PW1788) - Sidegradient of plume - west side

##### Well List 2

PW1530LR  
PW1587LR  
PW1716LR  
PW461HR  
PW717HC (Sidegradient of plume - east side)

#### Monitoring Plan

Well List 1  
Quarterly analysis of List A, B, C (March, June, September, December)

Well List 2  
Semi-annual analysis of List A (June, December)

**APPENDIX G**  
**GROUNDWATER MONITORING DATA**

**GROUNDWATER MONITORING DATA**

**JANUARY, 2000**

**Madison Office & Laboratory**  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



**Corporate Office & Laboratory**  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**  
**Project Number : 30250.60001**

**Client : EARTH TECH INC**  
**Report Date : 2/25/00**  
**WI DNR LAB ID : 113172950**

Lab Sample No.	Field ID	Collection Date	Lab Sample No.	Field ID	Collection Date
900286-001	P3B	1/25/00			
900286-002	P2A	1/25/00			
900286-003	P2B	1/25/00			
900286-004	FIELD BLANK	1/25/00			
900286-005	TRIP BLANK	1/25/00			

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample narrative. Release of this final report is authorized by Laboratory management, as is verified by the following signature.

  
Approval Signature

03-03-00  
Date



**Madison Office & Laboratory**  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



**Corporate Office & Laboratory**  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Client : EARTH TECH INC**


**Project Number : 30250.60001**

**Report Date : 2/25/00**

**WI DNR LAB ID : 113172950**

Lab Sample No.	Field ID	Collection Date	Lab Sample No.	Field ID	Collection Date
900285-001	LH2	1/26/00			
900285-002	LH1	1/26/00			
900285-003	P4B	1/26/00			

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample narrative. Release of this final report is authorized by Laboratory management, as is verified by the following signature.

  
Approval Signature

03-03-00  
Date

Madison Office & Laboratory  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



Corporate Office & Laboratory  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

- Analytical Report -

Project Name : VILLAGE OF GRAFTON  
Project Number : 30250.60001  
Station ID : FIELD BLANK  
Lab Sample Number : 900286-004  
Lab Project Number : 900286

Submitter : EARTH TECH INC  
Report Date : 3/3/00  
Collection Date : 1/25/00  
Matrix Type : BLANK  
WI DNR LAB ID : 113172950

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Arsenic - Dissolved	< 6.8	6.8	22		ug/L		2/1/00	SW846 6010B	SW846 6010B
Barium - Dissolved	< 0.12	0.12	0.38		ug/L		2/1/00	SW846 6010B	SW846 6010B
Cadmium - Dissolved	< 0.50	0.50	1.6		ug/L		2/23/00	SW846 6010B	SW846 6010B
Chromium - Dissolved	< 0.53	0.53	1.7		ug/L		2/1/00	SW846 6010B	SW846 6010B
Lead - Dissolved	< 2.8	2.8	8.9		ug/L		2/23/00	SW846 6010B	SW846 6010B
Mercury - Dissolved	< 0.042	0.042	0.13		ug/L	H(1)	2/23/00	SW846 7470A	SW846 7470A
Selenium - Dissolved	< 8.7	8.7	28		ug/L		2/23/00	SW846 6010B	SW846 6010B
Silver - Dissolved	< 0.60	0.60	1.9		ug/L		2/1/00	SW846 6010B	SW846 6010B
Alkalinity as CaCO3	< 3.5	3.5	11		mg/L		2/8/00	EPA 310.2	EPA 310.2
Chloride	< 0.15	0.15	0.48		mg/L		1/28/00	EPA 325.1	EPA 325.1
Nitrogen, nitrate	< 0.080	0.080	0.25		mg/L	H(0.8)	1/28/00	353.2/354.1	353.2/354.1

**Madison Office & Laboratory**  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



**Corporate Office & Laboratory**  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Submitter : EARTH TECH INC

Project Number : 30250.60001

Report Date : 3/3/00

Station ID : P2B

Collection Date : 1/25/00

Lab Sample Number : 900286-003

Matrix Type : WATER

Lab Project Number : 900286

WI DNR LAB ID : 113172950

**Inorganic Results**

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Arsenic - Dissolved	< 6.8	6.8	22		ug/L		2/1/00	SW846 6010B	SW846 6010B
Barium - Dissolved	77	0.12	0.38		ug/L		2/1/00	SW846 6010B	SW846 6010B
Cadmium - Dissolved	< 0.50	0.50	1.6		ug/L		2/23/00	SW846 6010B	SW846 6010B
Chromium - Dissolved	1.6	0.53	1.7		ug/L	Q	2/1/00	SW846 6010B	SW846 6010B
Lead - Dissolved	< 2.8	2.8	8.9		ug/L		2/23/00	SW846 6010B	SW846 6010B
Mercury - Dissolved	< 0.042	0.042	0.13		ug/L	H(1)	2/23/00	SW846 7470A	SW846 7470A
Selenium - Dissolved	< 8.7	8.7	28		ug/L		2/23/00	SW846 6010B	SW846 6010B
Silver - Dissolved	< 0.60	0.60	1.9		ug/L		2/1/00	SW846 6010B	SW846 6010B
Alkalinity as CaCO3	390	3.5	11		mg/L		2/8/00	EPA 310.2	EPA 310.2
Chloride	93	1.5	4.8		mg/L		1/28/00	EPA 325.1	EPA 325.1
Nitrogen, nitrate	0.15	0.080	0.25		mg/L	QH(0.8)	1/28/00	353.2/354.1	353.2/354.1

**Madison Office & Laboratory**  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



**Corporate Office & Laboratory**  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Submitter : EARTH TECH INC

Project Number : 30250.60001

Report Date : 3/3/00

Station ID : P2A

Collection Date : 1/25/00

Lab Sample Number : 900286-002

Matrix Type : WATER

Lab Project Number : 900286

WI DNR LAB ID : 113172950

**Inorganic Results**

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Arsenic - Dissolved	< 6.8	6.8	22		ug/L		2/1/00	SW846 6010B	SW846 6010B
Barium - Dissolved	47	0.12	0.38		ug/L		2/1/00	SW846 6010B	SW846 6010B
Cadmium - Dissolved	< 0.50	0.50	1.6		ug/L		2/23/00	SW846 6010B	SW846 6010B
Chromium - Dissolved	0.62	0.53	1.7		ug/L	Q	2/1/00	SW846 6010B	SW846 6010B
Lead - Dissolved	< 2.8	2.8	8.9		ug/L		2/23/00	SW846 6010B	SW846 6010B
Mercury - Dissolved	< 0.042	0.042	0.13		ug/L	H(1)	2/23/00	SW846 7470A	SW846 7470A
Selenium - Dissolved	< 8.7	8.7	28		ug/L		2/23/00	SW846 6010B	SW846 6010B
Silver - Dissolved	< 0.60	0.60	1.9		ug/L		2/1/00	SW846 6010B	SW846 6010B
Alkalinity as CaCO3	480	3.5	11		mg/L		2/8/00	EPA 310.2	EPA 310.2
Chloride	240	3.0	9.6		mg/L		1/28/00	EPA 325.1	EPA 325.1
Nitrogen, nitrate	< 0.080	0.080	0.25		mg/L	H(0.9)	1/28/00	353.2/354.1	353.2/354.1

Madison Office & Laboratory  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



Corporate Office & Laboratory  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Submitter : EARTH TECH INC

Project Number : 30250.60001

Report Date : 3/3/00

Station ID : P3B

Collection Date : 1/25/00

Lab Sample Number : 900286-001

Matrix Type : WATER

Lab Project Number : 900286

WI DNR LAB ID : 113172950

**Inorganic Results**

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Arsenic - Dissolved	< 6.8	6.8	22		ug/L		2/1/00	SW846 6010B	SW846 6010B
Barium - Dissolved	44	0.12	0.38		ug/L		2/1/00	SW846 6010B	SW846 6010B
Cadmium - Dissolved	< 0.50	0.50	1.6		ug/L		2/23/00	SW846 6010B	SW846 6010B
Chromium - Dissolved	1.0	0.53	1.7		ug/L	Q	2/1/00	SW846 6010B	SW846 6010B
Lead - Dissolved	< 2.8	2.8	8.9		ug/L		2/23/00	SW846 6010B	SW846 6010B
Mercury - Dissolved	< 0.042	0.042	0.13		ug/L	H(1)	2/23/00	SW846 7470A	SW846 7470A
Selenium - Dissolved	< 8.7	8.7	28		ug/L		2/23/00	SW846 6010B	SW846 6010B
Silver - Dissolved	< 0.60	0.60	1.9		ug/L		2/1/00	SW846 6010B	SW846 6010B
Alkalinity as CaCO3	290	3.5	11		mg/L		2/8/00	EPA 310.2	EPA 310.2
Chloride	21	0.15	0.48		mg/L		1/28/00	EPA 325.1	EPA 325.1
Nitrogen, nitrate	4.6	0.080	0.25		mg/L	H(1.0)	1/28/00	353.2/354.1	353.2/354.1



**Madison Office & Laboratory**  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



**Corporate Office & Laboratory**  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

**SAMPLE NARRATIVE  
INORGANIC ANALYSIS**

**PROJECT NAME:** Village of Grafton  
**WORKORDER NUMBER:** 900286  
**DATE:** 2/23/2000

LIMS sample numbers 900286-(1-4) were analyzed for Dissolved Mercury past the prescribed analytical hold time. The EPA method designates 28 days for the hold time. The analysis was requested past the hold time. The final results have been qualified with an H flag.

LIMS sample numbers 900286-(1-4) were analyzed for Nitrate past the prescribed analytical hold time. The EPA method designates 48 hours for the hold time. The samples were received by the lab past the hold time. The final results have been qualified with an H flag.

**Madison Office & Laboratory**  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



**Corporate Office & Laboratory**  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Submitter : EARTH TECH INC

Project Number : 30250.60001

Report Date : 3/3/00

Station ID : LH1

Collection Date : 1/26/00

Lab Sample Number : 900285-002

Matrix Type : WATER

Lab Project Number : 900285

WI DNR LAB ID : 113172950

**Inorganic Results**

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Arsenic - Dissolved	< 6.8	6.8	22		ug/L		2/1/00	SW846 6010B	SW846 6010B
Barium - Dissolved	47	0.12	0.38		ug/L		2/1/00	SW846 6010B	SW846 6010B
Cadmium - Dissolved	< 0.50	0.50	1.6		ug/L		2/23/00	SW846 6010B	SW846 6010B
Chromium - Dissolved	< 0.53	0.53	1.7		ug/L		2/1/00	SW846 6010B	SW846 6010B
Lead - Dissolved	< 2.8	2.8	8.9		ug/L		2/23/00	SW846 6010B	SW846 6010B
Mercury - Dissolved	0.28	0.042	0.13		ug/L		2/23/00	SW846 7470A	SW846 7470A
Selenium - Dissolved	< 8.7	8.7	28		ug/L		2/23/00	SW846 6010B	SW846 6010B
Silver - Dissolved	< 0.60	0.60	1.9		ug/L		2/1/00	SW846 6010B	SW846 6010B
Alkalinity as CaCO3	390	3.5	11		mg/L		2/8/00	EPA 310.2	EPA 310.2
Chloride	120	1.5	4.8		mg/L		1/28/00	EPA 325.1	EPA 325.1
Nitrogen, nitrate	1.5	0.080	0.25		mg/L		1/28/00	353.2/354.1	353.2/354.1

Madison Office & Laboratory  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



Corporate Office & Laboratory  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

- Analytical Report -

Project Name : VILLAGE OF GRAFTON

Submitter : EARTH TECH INC

Project Number : 30250.60001

Report Date : 3/3/00

Station ID : LH2

Collection Date : 1/26/00

Lab Sample Number : 900285-001

Matrix Type : WATER

Lab Project Number : 900285

WI DNR LAB ID : 113172950

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Arsenic - Dissolved	< 6.8	6.8	22		ug/L		2/1/00	SW846 6010B	SW846 6010B
Barium - Dissolved	44	0.12	0.38		ug/L		2/1/00	SW846 6010B	SW846 6010B
Cadmium - Dissolved	< 0.50	0.50	1.6		ug/L		2/23/00	SW846 6010B	SW846 6010B
Chromium - Dissolved	1.2	0.53	1.7		ug/L	Q	2/1/00	SW846 6010B	SW846 6010B
Lead - Dissolved	< 2.8	2.8	8.9		ug/L		2/23/00	SW846 6010B	SW846 6010B
Mercury - Dissolved	< 0.042	0.042	0.13		ug/L		2/23/00	SW846 7470A	SW846 7470A
Selenium - Dissolved	< 8.7	8.7	28		ug/L	MS	2/23/00	SW846 6010B	SW846 6010B
Silver - Dissolved	< 0.60	0.60	1.9		ug/L		2/1/00	SW846 6010B	SW846 6010B
Alkalinity as CaCO3	240	3.5	11		mg/L		2/8/00	EPA 310.2	EPA 310.2
Chloride	150	1.5	4.8		mg/L		1/28/00	EPA 325.1	EPA 325.1
Nitrogen, nitrate	0.60	0.080	0.25		mg/L		1/28/00	353.2/354.1	353.2/354.1

**Madison Office & Laboratory**  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



**Corporate Office & Laboratory**  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Submitter : EARTH TECH INC**

**Project Number : 30250.60001**

**Report Date : 3/3/00**

**Station ID : P4B**

**Collection Date : 1/26/00**

**Lab Sample Number : 900285-003**

**Matrix Type : WATER**

**Lab Project Number : 900285**

**WI DNR LAB ID : 113172950**

**Inorganic Results**

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Arsenic - Dissolved	< 6.8	6.8	22		ug/L		2/1/00	SW846 6010B	SW846 6010B
Barium - Dissolved	46	0.12	0.38		ug/L		2/1/00	SW846 6010B	SW846 6010B
Cadmium - Dissolved	< 0.50	0.50	1.6		ug/L		2/23/00	SW846 6010B	SW846 6010B
Chromium - Dissolved	1.0	0.53	1.7		ug/L	Q	2/1/00	SW846 6010B	SW846 6010B
Lead - Dissolved	< 2.8	2.8	8.9		ug/L		2/23/00	SW846 6010B	SW846 6010B
Mercury - Dissolved	< 0.042	0.042	0.13		ug/L		2/23/00	SW846 7470A	SW846 7470A
Selenium - Dissolved	< 8.7	8.7	28		ug/L		2/23/00	SW846 6010B	SW846 6010B
Silver - Dissolved	< 0.60	0.60	1.9		ug/L		2/1/00	SW846 6010B	SW846 6010B
Alkalinity as CaCO3	350	3.5	11		mg/L		2/8/00	EPA 310.2	EPA 310.2
Chloride	32	1.5	4.8		mg/L		1/28/00	EPA 325.1	EPA 325.1
Nitrogen, nitrate	4.4	0.080	0.25		mg/L		1/28/00	353.2/354.1	353.2/354.1



**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON  
 Project Number : 30250.60001  
 Field ID : P3B  
 Lab Sample Number : 900286-001  
 Lab Project Number : 900286

Submitter : EARTH TECH INC  
 Report Date : 2/25/00  
 Collection Date : 1/25/00  
 Matrix Type : WATER  
 WI DNR LAB ID : 113172950

**Semivolatile Organic Results**

Prep Method: MOD. 8015      Prep Date: 2/2/00

ETHANE	Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
	Ethane	< 10			10	ug/l	SUB	2/2/00	MOD. 8015

Prep Method: MOD. 8015      Prep Date: 2/2/00

ETHENE	Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
	Ethene	< 10			10	ug/l	SUB	2/2/00	MOD. 8015

**Volatile Organic Results**

8260 VOLATILE LIST-Modified

Prep Method: SW846 5030B

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6		ug/L		1/31/00	SW846 8260B
1,1,1-Trichloroethane	< 0.53	0.53	1.7		ug/L		1/31/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2		ug/L		1/31/00	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5		ug/L		1/31/00	SW846 8260B
1,1-Dichloroethane	< 0.61	0.61	1.9		ug/L		1/31/00	SW846 8260B
1,1-Dichloroethene	< 0.47	0.47	1.5		ug/L		1/31/00	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		1/31/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8		ug/L		1/31/00	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3		ug/L		1/31/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1		ug/L		1/31/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5		ug/L		1/31/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		1/31/00	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		1/31/00	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		1/31/00	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		1/31/00	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		1/31/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4		ug/L		1/31/00	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		1/31/00	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		1/31/00	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		1/31/00	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		1/31/00	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		1/31/00	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		1/31/00	SW846 8260B
Benzene	< 0.44	0.44	1.4		ug/L		1/31/00	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		1/31/00	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		1/31/00	SW846 8260B



**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Submitter : EARTH TECH INC**

**Project Number : 30250.60001**

**Report Date : 2/25/00**

**Field ID : P3B**

**Collection Date : 1/25/00**

**Lab Sample Number : 900286-001**

**Matrix Type : WATER**

**Lab Project Number : 900286**

**WI DNR LAB ID : 113172950**

Bromodichloromethane	< 0.41	0.41	1.3	ug/L		1/31/00	SW846 8260B
Bromoform	< 0.58	0.58	1.8	ug/L		1/31/00	SW846 8260B
Bromomethane	< 0.94	0.94	3.0	ug/L		1/31/00	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9	ug/L		1/31/00	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4	ug/L		1/31/00	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4	ug/L		1/31/00	SW846 8260B
Chloroethane	< 0.63	0.63	2.0	ug/L		1/31/00	SW846 8260B
Chloroform	< 0.41	0.41	1.3	ug/L		1/31/00	SW846 8260B
Chloromethane	< 0.44	0.44	1.4	ug/L		1/31/00	SW846 8260B
cis-1,2-Dichloroethene	< 0.46	0.46	1.5	ug/L		1/31/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.54	0.54	1.7	ug/L		1/31/00	SW846 8260B
Dibromomethane	< 0.60	0.60	1.9	ug/L		1/31/00	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9	ug/L		1/31/00	SW846 8260B
Diisopropyl ether	< 0.42	0.42	1.3	ug/L		1/31/00	SW846 8260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L		1/31/00	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L		1/31/00	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L		1/31/00	SW846 8260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L		1/31/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.44	0.44	1.4	ug/L		1/31/00	SW846 8260B
Methylene chloride	< 0.38	0.38	1.2	ug/L		1/31/00	SW846 8260B
n-Butylbenzene	< 0.39	0.39	1.2	ug/L		1/31/00	SW846 8260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L		1/31/00	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L		1/31/00	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L		1/31/00	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8	ug/L		1/31/00	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L		1/31/00	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6	ug/L		1/31/00	SW846 8260B
Tetrachloroethene	1.2	0.41	1.3	ug/L	Q	1/31/00	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L		1/31/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.64	0.64	2.0	ug/L		1/31/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.26	0.26	0.83	ug/L		1/31/00	SW846 8260B
Trichloroethene	35	0.49	1.6	ug/L		1/31/00	SW846 8260B
Vinyl chloride	< 0.17	0.17	0.54	ug/L		1/31/00	SW846 8260B
Xylene, -o	< 0.54	0.54	1.7	ug/L		1/31/00	SW846 8260B
Xylenes, -m, -p	< 0.77	0.77	2.5	ug/L		1/31/00	SW846 8260B
4-Bromofluorobenzene	107			%Recov		1/31/00	SW846 8260B
Dibromofluoromethane	111			%Recov		1/31/00	SW846 8260B
Toluene-d8	108			%Recov		1/31/00	SW846 8260B



**Madison Office & Laboratory**  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



**Corporate Office & Laboratory**  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**  
**Project Number : 30250.60001**  
**Field ID : P3B**  
**Lab Sample Number : 900286-001**  
**Lab Project Number : 900286**

**Submitter : EARTH TECH INC**  
**Report Date : 2/25/00**  
**Collection Date : 1/25/00**  
**Matrix Type : WATER**  
**WI DNR LAB ID : 113172950**

---

METHANE		Prep Method: MOD. 8015				Prep Date: 2/2/00			
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method	
Methane	< 10			10	ug/l	SUB	2/2/00	MOD. 8015	

---

All soil results are reported on a dry weight basis unless otherwise noted.

Units of %Recov(ery) denote surrogate spike recovery. All recoveries pass in-house control limits unless otherwise noted.



**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Submitter : EARTH TECH INC

Project Number : 30250.60001

Report Date : 2/25/00

Field ID : P2A

Collection Date : 1/25/00

Lab Sample Number : 900286-002

Matrix Type : WATER

Lab Project Number : 900286

WI DNR LAB ID : 113172950

**Semivolatile Organic Results**

ETHANE		Prep Method: MOD. 8015			Prep Date: 2/2/00			
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	< 10			10	ug/l	SUB	2/2/00	MOD. 8015

ETHENE		Prep Method: MOD. 8015			Prep Date: 2/2/00			
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l	SUB	2/2/00	MOD. 8015

**Volatile Organic Results**

8260 VOLATILE LIST-Modified

Prep Method: SW846 5030B

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6		ug/L		1/31/00	SW846 8260B
1,1,1-Trichloroethane	< 0.53	0.53	1.7		ug/L		1/31/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2		ug/L		1/31/00	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5		ug/L		1/31/00	SW846 8260B
1,1-Dichloroethane	24	0.61	1.9		ug/L		1/31/00	SW846 8260B
1,1-Dichloroethene	< 0.47	0.47	1.5		ug/L		1/31/00	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		1/31/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8		ug/L		1/31/00	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3		ug/L		1/31/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1		ug/L		1/31/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5		ug/L		1/31/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		1/31/00	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		1/31/00	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		1/31/00	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		1/31/00	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		1/31/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4		ug/L		1/31/00	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		1/31/00	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		1/31/00	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		1/31/00	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		1/31/00	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		1/31/00	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		1/31/00	SW846 8260B
Benzene	< 0.44	0.44	1.4		ug/L		1/31/00	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		1/31/00	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		1/31/00	SW846 8260B



**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Submitter : EARTH TECH INC**

**Project Number : 30250.60001**

**Report Date : 2/25/00**

**Field ID : P2A**

**Collection Date : 1/25/00**

**Lab Sample Number : 900286-002**

**Matrix Type : WATER**

**Lab Project Number : 900286**

**WI DNR LAB ID : 113172950**

Bromodichloromethane	< 0.41	0.41	1.3	ug/L	1/31/00	SW846 8260B
Bromoform	< 0.58	0.58	1.8	ug/L	1/31/00	SW846 8260B
Bromomethane	< 0.94	0.94	3.0	ug/L	1/31/00	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9	ug/L	1/31/00	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4	ug/L	1/31/00	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4	ug/L	1/31/00	SW846 8260B
Chloroethane	< 0.63	0.63	2.0	ug/L	1/31/00	SW846 8260B
Chloroform	< 0.41	0.41	1.3	ug/L	1/31/00	SW846 8260B
Chloromethane	< 0.44	0.44	1.4	ug/L	1/31/00	SW846 8260B
cis-1,2-Dichloroethene	2.0	0.46	1.5	ug/L	1/31/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.54	0.54	1.7	ug/L	1/31/00	SW846 8260B
Dibromomethane	< 0.60	0.60	1.9	ug/L	1/31/00	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9	ug/L	1/31/00	SW846 8260B
Diisopropyl ether	< 0.42	0.42	1.3	ug/L	1/31/00	SW846 8260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L	1/31/00	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L	1/31/00	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L	1/31/00	SW846 8260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L	1/31/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.44	0.44	1.4	ug/L	1/31/00	SW846 8260B
Methylene chloride	< 0.38	0.38	1.2	ug/L	1/31/00	SW846 8260B
n-Butylbenzene	< 0.39	0.39	1.2	ug/L	1/31/00	SW846 8260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L	1/31/00	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L	1/31/00	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L	1/31/00	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8	ug/L	1/31/00	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L	1/31/00	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6	ug/L	1/31/00	SW846 8260B
Tetrachloroethene	< 0.41	0.41	1.3	ug/L	1/31/00	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L	1/31/00	SW846 8260B
trans-1,2-Dichloroethene	3.5	0.64	2.0	ug/L	1/31/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.26	0.26	0.83	ug/L	1/31/00	SW846 8260B
Trichloroethene	3.8	0.49	1.6	ug/L	1/31/00	SW846 8260B
Vinyl chloride	1.2	0.17	0.54	ug/L	1/31/00	SW846 8260B
Xylene, -o	< 0.54	0.54	1.7	ug/L	1/31/00	SW846 8260B
Xylenes, -m, -p	< 0.77	0.77	2.5	ug/L	1/31/00	SW846 8260B
o-Bromofluorobenzene	107			%Recov	1/31/00	SW846 8260B
Dibromofluoromethane	109			%Recov	1/31/00	SW846 8260B
Toluene-d8	107			%Recov	1/31/00	SW846 8260B

**Madison Office & Laboratory**  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



**Corporate Office & Laboratory**  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Submitter : EARTH TECH INC**

**Project Number : 30250.60001**

**Report Date : 2/25/00**

**Field ID : P2A**

**Collection Date : 1/25/00**

**Lab Sample Number : 900286-002**

**Matrix Type : WATER**

**Lab Project Number : 900286**

**WI DNR LAB ID : 113172950**

**METHANE**

**Prep Method: MOD. 8015**

**Prep Date: 2/2/00**

<b>Analyte</b>	<b>Result</b>	<b>LOD</b>	<b>LOQ</b>	<b>EQL</b>	<b>Units</b>	<b>Code</b>	<b>Analysis Date</b>	<b>Analysis Method</b>
Methane	< 10			10	ug/l	SUB	2/2/00	MOD. 8015

**All soil results are reported on a dry weight basis unless otherwise noted.**

**Units of %Recov(ery) denote surrogate spike recovery. All recoveries pass in-house control limits unless otherwise noted.**



**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Submitter : EARTH TECH INC

Project Number : 30250.60001

Report Date : 2/25/00

Field ID : P2B

Collection Date : 1/25/00

Lab Sample Number : 900286-003

Matrix Type : WATER

Lab Project Number : 900286

WI DNR LAB ID : 113172950

**Semivolatile Organic Results**

ETHANE		Prep Method: MOD. 8015			Prep Date: 2/2/00			
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	23			10	ug/l	SUB	2/2/00	MOD. 8015

ETHENE		Prep Method: MOD. 8015			Prep Date: 2/2/00			
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l	SUB	2/2/00	MOD. 8015

**Volatile Organic Results**

8260 VOLATILE LIST-Modified

Prep Method: SW846 5030B

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 2.4	2.4	7.6		ug/L		2/1/00	SW846 8260B
1,1,1-Trichloroethane	3.1	2.6	8.3		ug/L	Q	2/1/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 3.4	3.4	11		ug/L		2/1/00	SW846 8260B
1,1,2-Trichloroethane	< 2.3	2.3	7.3		ug/L		2/1/00	SW846 8260B
1,1-Dichloroethane	22	3.0	9.6		ug/L		2/1/00	SW846 8260B
1,1-Dichloroethene	< 2.3	2.3	7.3		ug/L		2/1/00	SW846 8260B
1,1-Dichloropropene	< 2.9	2.9	9.2		ug/L		2/1/00	SW846 8260B
1,2,3-Trichlorobenzene	< 2.8	2.8	8.9		ug/L		2/1/00	SW846 8260B
1,2,3-Trichloropropane	< 3.5	3.5	11		ug/L		2/1/00	SW846 8260B
1,2,4-Trichlorobenzene	< 1.8	1.8	5.7		ug/L		2/1/00	SW846 8260B
1,2,4-Trimethylbenzene	< 2.3	2.3	7.3		ug/L		2/1/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 6.2	6.2	20		ug/L		2/1/00	SW846 8260B
1,2-Dibromoethane	< 2.4	2.4	7.6		ug/L		2/1/00	SW846 8260B
1,2-Dichlorobenzene	< 1.8	1.8	5.7		ug/L		2/1/00	SW846 8260B
1,2-Dichloroethane	< 2.7	2.7	8.6		ug/L		2/1/00	SW846 8260B
1,2-Dichloropropane	< 1.7	1.7	5.4		ug/L		2/1/00	SW846 8260B
1,3,5-Trimethylbenzene	< 2.2	2.2	7.0		ug/L		2/1/00	SW846 8260B
1,3-Dichlorobenzene	< 3.2	3.2	10		ug/L		2/1/00	SW846 8260B
1,3-Dichloropropane	< 2.1	2.1	6.7		ug/L		2/1/00	SW846 8260B
1,4-Dichlorobenzene	< 2.1	2.1	6.7		ug/L		2/1/00	SW846 8260B
2,2-Dichloropropane	< 2.0	2.0	6.4		ug/L		2/1/00	SW846 8260B
2-Chlorotoluene	< 3.2	3.2	10		ug/L		2/1/00	SW846 8260B
4-Chlorotoluene	< 2.8	2.8	8.9		ug/L		2/1/00	SW846 8260B
Benzene	< 2.2	2.2	7.0		ug/L		2/1/00	SW846 8260B
Bromobenzene	< 2.3	2.3	7.3		ug/L		2/1/00	SW846 8260B
Bromochloromethane	< 1.1	1.1	3.5		ug/L		2/1/00	SW846 8260B



**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Submitter : EARTH TECH INC

Project Number : 30250.60001

Report Date : 2/25/00

Field ID : P2B

Collection Date : 1/25/00

Lab Sample Number : 900286-003

Matrix Type : WATER

Lab Project Number : 900286

WI DNR LAB ID : 113172950

Bromodichloromethane	< 2.0	2.0	6.4	ug/L		2/1/00	SW846 8260B
Bromoform	< 2.9	2.9	9.2	ug/L		2/1/00	SW846 8260B
Bromomethane	< 4.7	4.7	15	ug/L		2/1/00	SW846 8260B
Carbon tetrachloride	< 4.5	4.5	14	ug/L		2/1/00	SW846 8260B
Chlorobenzene	< 2.1	2.1	6.7	ug/L		2/1/00	SW846 8260B
Chlorodibromomethane	< 2.1	2.1	6.7	ug/L		2/1/00	SW846 8260B
Chloroethane	< 3.1	3.1	9.9	ug/L		2/1/00	SW846 8260B
Chloroform	< 2.0	2.0	6.4	ug/L		2/1/00	SW846 8260B
Chloromethane	< 2.2	2.2	7.0	ug/L		2/1/00	SW846 8260B
cis-1,2-Dichloroethene	530	2.3	7.3	ug/L		2/1/00	SW846 8260B
cis-1,3-Dichloropropene	< 2.7	2.7	8.6	ug/L		2/1/00	SW846 8260B
Dibromomethane	< 3.0	3.0	9.6	ug/L		2/1/00	SW846 8260B
Dichlorodifluoromethane	< 3.0	3.0	9.6	ug/L		2/1/00	SW846 8260B
Diisopropyl ether	< 2.1	2.1	6.7	ug/L		2/1/00	SW846 8260B
Ethylbenzene	< 2.5	2.5	8.0	ug/L		2/1/00	SW846 8260B
Fluorotrichloromethane	< 2.3	2.3	7.3	ug/L		2/1/00	SW846 8260B
Hexachlorobutadiene	< 2.4	2.4	7.6	ug/L		2/1/00	SW846 8260B
Isopropylbenzene	< 1.9	1.9	6.1	ug/L		2/1/00	SW846 8260B
Methyl-tert-butyl-ether	< 2.2	2.2	7.0	ug/L		2/1/00	SW846 8260B
Methylene chloride	< 1.9	1.9	6.1	ug/L		2/1/00	SW846 8260B
n-Butylbenzene	< 1.9	1.9	6.1	ug/L		2/1/00	SW846 8260B
n-Propylbenzene	< 2.7	2.7	8.6	ug/L		2/1/00	SW846 8260B
Naphthalene	< 2.9	2.9	9.2	ug/L		2/1/00	SW846 8260B
p-Isopropyltoluene	< 2.5	2.5	8.0	ug/L		2/1/00	SW846 8260B
s-Butylbenzene	< 2.9	2.9	9.2	ug/L		2/1/00	SW846 8260B
Styrene	< 1.8	1.8	5.7	ug/L		2/1/00	SW846 8260B
t-Butylbenzene	< 2.5	2.5	8.0	ug/L		2/1/00	SW846 8260B
Tetrachloroethene	< 2.0	2.0	6.4	ug/L		2/1/00	SW846 8260B
Toluene	< 2.0	2.0	6.4	ug/L		2/1/00	SW846 8260B
trans-1,2-Dichloroethene	9.8	3.2	10	ug/L	Q	2/1/00	SW846 8260B
trans-1,3-Dichloropropene	< 1.3	1.3	4.1	ug/L		2/1/00	SW846 8260B
Trichloroethene	210	2.4	7.6	ug/L		2/1/00	SW846 8260B
Vinyl chloride	370	0.85	2.7	ug/L		2/1/00	SW846 8260B
Xylene, -o	< 2.7	2.7	8.6	ug/L		2/1/00	SW846 8260B
Xylenes, -m, -p	< 3.9	3.9	12	ug/L		2/1/00	SW846 8260B
4-Bromofluorobenzene	108			%Recov		2/1/00	SW846 8260B
Dibromofluoromethane	108			%Recov		2/1/00	SW846 8260B
Toluene-d8	107			%Recov		2/1/00	SW846 8260B



**Madison Office & Laboratory**  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



**Corporate Office & Laboratory**  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

**- Analytical Report -**

**Project Name :** VILLAGE OF GRAFTON  
**Project Number :** 30250.60001  
**Field ID :** P2B  
**Lab Sample Number :** 900286-003  
**Lab Project Number :** 900286

**Submitter :** EARTH TECH INC  
**Report Date :** 2/25/00  
**Collection Date :** 1/25/00  
**Matrix Type :** WATER  
**WI DNR LAB ID :** 113172950

METHANE		Prep Method: MOD. 8015			Prep Date: 2/2/00			
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	130			100	ug/l	SUB	2/2/00	MOD. 8015

All soil results are reported on a dry weight basis unless otherwise noted.

Units of %Recov(ery) denote surrogate spike recovery. All recoveries pass in-house control limits unless otherwise noted.



**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Submitter : EARTH TECH INC

Project Number : 30250.60001

Report Date : 2/25/00

Field ID : FIELD BLANK

Collection Date : 1/25/00

Lab Sample Number : 900286-004

Matrix Type : BLANK

Lab Project Number : 900286

WI DNR LAB ID : 113172950

**Semivolatile Organic Results**

ETHANE		Prep Method: MOD. 8015			Prep Date: 2/2/00			
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	< 10			10	ug/l	SUB	2/2/00	MOD. 8015

ETHENE		Prep Method: MOD. 8015			Prep Date: 2/2/00			
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l	SUB	2/2/00	MOD. 8015

**Volatile Organic Results**

8260 VOLATILE LIST-Modified

Prep Method: SW846 5030B

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6		ug/L		1/31/00	SW846 8260B
1,1,1-Trichloroethane	< 0.53	0.53	1.7		ug/L		1/31/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2		ug/L		1/31/00	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5		ug/L		1/31/00	SW846 8260B
1,1-Dichloroethane	< 0.61	0.61	1.9		ug/L		1/31/00	SW846 8260B
1,1-Dichloroethene	< 0.47	0.47	1.5		ug/L		1/31/00	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		1/31/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8		ug/L		1/31/00	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3		ug/L		1/31/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1		ug/L		1/31/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5		ug/L		1/31/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		1/31/00	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		1/31/00	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		1/31/00	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		1/31/00	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		1/31/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4		ug/L		1/31/00	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		1/31/00	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		1/31/00	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		1/31/00	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		1/31/00	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		1/31/00	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		1/31/00	SW846 8260B
Benzene	< 0.44	0.44	1.4		ug/L		1/31/00	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		1/31/00	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		1/31/00	SW846 8260B



**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Submitter : EARTH TECH INC

Project Number : 30250.60001

Report Date : 2/25/00

Field ID : FIELD BLANK

Collection Date : 1/25/00

Lab Sample Number : 900286-004

Matrix Type : BLANK

Lab Project Number : 900286

WI DNR LAB ID : 113172950

Bromodichloromethane	1.6	0.41	1.3	ug/L	1/31/00	SW846 8260B
Bromoform	< 0.58	0.58	1.8	ug/L	1/31/00	SW846 8260B
Bromomethane	< 0.94	0.94	3.0	ug/L	1/31/00	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9	ug/L	1/31/00	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4	ug/L	1/31/00	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4	ug/L	1/31/00	SW846 8260B
Chloroethane	< 0.63	0.63	2.0	ug/L	1/31/00	SW846 8260B
Chloroform	3.1	0.41	1.3	ug/L	1/31/00	SW846 8260B
Chloromethane	< 0.44	0.44	1.4	ug/L	1/31/00	SW846 8260B
cis-1,2-Dichloroethene	< 0.46	0.46	1.5	ug/L	1/31/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.54	0.54	1.7	ug/L	1/31/00	SW846 8260B
Dibromomethane	< 0.60	0.60	1.9	ug/L	1/31/00	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9	ug/L	1/31/00	SW846 8260B
Diisopropyl ether	< 0.42	0.42	1.3	ug/L	1/31/00	SW846 8260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L	1/31/00	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L	1/31/00	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L	1/31/00	SW846 8260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L	1/31/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.44	0.44	1.4	ug/L	1/31/00	SW846 8260B
Methylene chloride	< 0.38	0.38	1.2	ug/L	1/31/00	SW846 8260B
n-Butylbenzene	< 0.39	0.39	1.2	ug/L	1/31/00	SW846 8260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L	1/31/00	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L	1/31/00	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L	1/31/00	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8	ug/L	1/31/00	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L	1/31/00	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6	ug/L	1/31/00	SW846 8260B
Tetrachloroethene	< 0.41	0.41	1.3	ug/L	1/31/00	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L	1/31/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.64	0.64	2.0	ug/L	1/31/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.26	0.26	0.83	ug/L	1/31/00	SW846 8260B
Trichloroethene	< 0.49	0.49	1.6	ug/L	1/31/00	SW846 8260B
Vinyl chloride	< 0.17	0.17	0.54	ug/L	1/31/00	SW846 8260B
Xylene, -o	< 0.54	0.54	1.7	ug/L	1/31/00	SW846 8260B
Xylenes, -m, -p	< 0.77	0.77	2.5	ug/L	1/31/00	SW846 8260B
4-Bromofluorobenzene	106			%Recov	1/31/00	SW846 8260B
Dibromofluoromethane	108			%Recov	1/31/00	SW846 8260B
Toluene-d8	107			%Recov	1/31/00	SW846 8260B

**Madison Office & Laboratory**  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



**Corporate Office & Laboratory**  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**  
**Project Number : 30250.60001**  
**Field ID : FIELD BLANK**  
**Lab Sample Number : 900286-004**  
**Lab Project Number : 900286**

**Submitter : EARTH TECH INC**  
**Report Date : 2/25/00**  
**Collection Date : 1/25/00**  
**Matrix Type : BLANK**  
**WI DNR LAB ID : 113172950**

**METHANE**

**Prep Method: MOD. 8015**

**Prep Date: 2/2/00**

<b>Analyte</b>	<b>Result</b>	<b>LOD</b>	<b>LOQ</b>	<b>EQL</b>	<b>Units</b>	<b>Code</b>	<b>Analysis Date</b>	<b>Analysis Method</b>
Methane	< 10			10	ug/l	SUB	2/2/00	MOD. 8015

**All soil results are reported on a dry weight basis unless otherwise noted.**

**Units of %Recov(ery) denote surrogate spike recovery. All recoveries pass in-house control limits unless otherwise noted.**



**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON  
 Project Number : 30250.60001  
 Field ID : TRIP BLANK  
 Lab Sample Number : 900286-005  
 Lab Project Number : 900286

Submitter : EARTH TECH INC  
 Report Date : 2/25/00  
 Collection Date : 1/25/00  
 Matrix Type : BLANK  
 WI DNR LAB ID : 113172950

**Volatile Organic Results**

8260 VOLATILE LIST-Modified

Prep Method: SW846 5030B

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6		ug/L		1/31/00	SW846 8260B
1,1,1-Trichloroethane	< 0.53	0.53	1.7		ug/L		1/31/00	SW846 8260B
1,1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2		ug/L		1/31/00	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5		ug/L		1/31/00	SW846 8260B
1,1-Dichloroethane	< 0.61	0.61	1.9		ug/L		1/31/00	SW846 8260B
1,1-Dichloroethene	< 0.47	0.47	1.5		ug/L		1/31/00	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		1/31/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8		ug/L		1/31/00	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3		ug/L		1/31/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1		ug/L		1/31/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5		ug/L		1/31/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		1/31/00	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		1/31/00	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		1/31/00	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		1/31/00	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		1/31/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4		ug/L		1/31/00	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		1/31/00	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		1/31/00	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		1/31/00	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		1/31/00	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		1/31/00	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		1/31/00	SW846 8260B
Benzene	< 0.44	0.44	1.4		ug/L		1/31/00	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		1/31/00	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		1/31/00	SW846 8260B
Bromodichloromethane	< 0.41	0.41	1.3		ug/L		1/31/00	SW846 8260B
Bromoform	< 0.58	0.58	1.8		ug/L		1/31/00	SW846 8260B
Bromomethane	< 0.94	0.94	3.0		ug/L		1/31/00	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9		ug/L		1/31/00	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4		ug/L		1/31/00	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4		ug/L		1/31/00	SW846 8260B
Chloroethane	< 0.63	0.63	2.0		ug/L		1/31/00	SW846 8260B
Chloroform	< 0.41	0.41	1.3		ug/L		1/31/00	SW846 8260B
Chloromethane	< 0.44	0.44	1.4		ug/L		1/31/00	SW846 8260B
cis-1,2-Dichloroethene	< 0.46	0.46	1.5		ug/L		1/31/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.54	0.54	1.7		ug/L		1/31/00	SW846 8260B



**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Submitter : EARTH TECH INC**

**Project Number : 30250.60001**

**Report Date : 2/25/00**

**Field ID : TRIP BLANK**

**Collection Date : 1/25/00**

**Lab Sample Number : 900286-005**

**Matrix Type : BLANK**

**Lab Project Number : 900286**

**WI DNR LAB ID : 113172950**

Dibromomethane	< 0.60	0.60	1.9	ug/L	1/31/00	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9	ug/L	1/31/00	SW846 8260B
Diisopropyl ether	< 0.42	0.42	1.3	ug/L	1/31/00	SW846 8260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L	1/31/00	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L	1/31/00	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L	1/31/00	SW846 8260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L	1/31/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.44	0.44	1.4	ug/L	1/31/00	SW846 8260B
Methylene chloride	< 0.38	0.38	1.2	ug/L	1/31/00	SW846 8260B
n-Butylbenzene	< 0.39	0.39	1.2	ug/L	1/31/00	SW846 8260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L	1/31/00	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L	1/31/00	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L	1/31/00	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8	ug/L	1/31/00	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L	1/31/00	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6	ug/L	1/31/00	SW846 8260B
Tetrachloroethene	< 0.41	0.41	1.3	ug/L	1/31/00	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L	1/31/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.64	0.64	2.0	ug/L	1/31/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.26	0.26	0.83	ug/L	1/31/00	SW846 8260B
Trichloroethene	< 0.49	0.49	1.6	ug/L	1/31/00	SW846 8260B
Vinyl chloride	< 0.17	0.17	0.54	ug/L	1/31/00	SW846 8260B
Xylene, -o	< 0.54	0.54	1.7	ug/L	1/31/00	SW846 8260B
Xylenes, -m, -p	< 0.77	0.77	2.5	ug/L	1/31/00	SW846 8260B
4-Bromofluorobenzene	107			%Recov	1/31/00	SW846 8260B
Dibromofluoromethane	109			%Recov	1/31/00	SW846 8260B
Toluene-d8	109			%Recov	1/31/00	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

Units of %Recov(ery) denote surrogate spike recovery. All recoveries pass in-house control limits unless otherwise noted.





**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Submitter : EARTH TECH INC

Project Number : 30250.60001

Report Date : 2/25/00

Field ID : LH2

Collection Date : 1/26/00

Lab Sample Number : 900285-001

Matrix Type : WATER

Lab Project Number : 900285

WI DNR LAB ID : 113172950

**Semivolatile Organic Results**

ETHANE		Prep Method: MOD. 8015				Prep Date: 2/2/00			
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method	
Ethane	< 10			10	ug/l	SUB	2/2/00	MOD. 8015	

ETHENE		Prep Method: MOD. 8015				Prep Date: 2/2/00			
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method	
Ethene	< 10			10	ug/l	SUB	2/2/00	MOD. 8015	

**Volatile Organic Results**

8260 VOLATILE LIST-Modified

Prep Method: SW846 5030B

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6		ug/L		1/31/00	SW846 8260B
1,1,1-Trichloroethane	0.82	0.53	1.7		ug/L	Q	1/31/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2		ug/L		1/31/00	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5		ug/L		1/31/00	SW846 8260B
1,1-Dichloroethane	84	0.61	1.9		ug/L		1/31/00	SW846 8260B
1,1-Dichloroethene	< 0.47	0.47	1.5		ug/L		1/31/00	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		1/31/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8		ug/L		1/31/00	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3		ug/L		1/31/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1		ug/L		1/31/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5		ug/L		1/31/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		1/31/00	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		1/31/00	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		1/31/00	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		1/31/00	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		1/31/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4		ug/L		1/31/00	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		1/31/00	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		1/31/00	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		1/31/00	SW846 8260B
1,2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		1/31/00	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		1/31/00	SW846 8260B
1-Chlorotoluene	< 0.56	0.56	1.8		ug/L		1/31/00	SW846 8260B
Benzene	< 0.44	0.44	1.4		ug/L		1/31/00	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		1/31/00	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		1/31/00	SW846 8260B



**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Submitter : EARTH TECH INC

Project Number : 30250.60001

Report Date : 2/25/00

Field ID : LH2

Collection Date : 1/26/00

Lab Sample Number : 900285-001

Matrix Type : WATER

Lab Project Number : 900285

WI DNR LAB ID : 113172950

Bromodichloromethane	< 0.41	0.41	1.3	ug/L		1/31/00	SW846 8260B
Bromoform	< 0.58	0.58	1.8	ug/L		1/31/00	SW846 8260B
Bromomethane	< 0.94	0.94	3.0	ug/L		1/31/00	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9	ug/L		1/31/00	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4	ug/L		1/31/00	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4	ug/L		1/31/00	SW846 8260B
Chloroethane	< 0.63	0.63	2.0	ug/L		1/31/00	SW846 8260B
Chloroform	< 0.41	0.41	1.3	ug/L		1/31/00	SW846 8260B
Chloromethane	< 0.44	0.44	1.4	ug/L		1/31/00	SW846 8260B
cis-1,2-Dichloroethene	40	0.46	1.5	ug/L		1/31/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.54	0.54	1.7	ug/L		1/31/00	SW846 8260B
Dibromomethane	< 0.60	0.60	1.9	ug/L		1/31/00	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9	ug/L		1/31/00	SW846 8260B
Diisopropyl ether	< 0.42	0.42	1.3	ug/L		1/31/00	SW846 8260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L		1/31/00	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L		1/31/00	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L		1/31/00	SW846 8260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L		1/31/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.44	0.44	1.4	ug/L		1/31/00	SW846 8260B
Methylene chloride	< 0.38	0.38	1.2	ug/L		1/31/00	SW846 8260B
n-Butylbenzene	< 0.39	0.39	1.2	ug/L		1/31/00	SW846 8260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L		1/31/00	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L		1/31/00	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L		1/31/00	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8	ug/L		1/31/00	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L		1/31/00	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6	ug/L		1/31/00	SW846 8260B
Tetrachloroethene	< 0.41	0.41	1.3	ug/L		1/31/00	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L		1/31/00	SW846 8260B
trans-1,2-Dichloroethene	1.6	0.64	2.0	ug/L	Q	1/31/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.26	0.26	0.83	ug/L		1/31/00	SW846 8260B
Trichloroethene	20	0.49	1.6	ug/L		1/31/00	SW846 8260B
Vinyl chloride	4.9	0.17	0.54	ug/L		1/31/00	SW846 8260B
Xylene, -o	< 0.54	0.54	1.7	ug/L		1/31/00	SW846 8260B
Xylenes, -m, -p	< 0.77	0.77	2.5	ug/L		1/31/00	SW846 8260B
4-Bromofluorobenzene	108			%Recov		1/31/00	SW846 8260B
Dibromofluoromethane	112			%Recov		1/31/00	SW846 8260B
Toluene-d8	108			%Recov		1/31/00	SW846 8260B

Madison Office & Laboratory  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



Corporate Office & Laboratory  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Submitter : EARTH TECH INC

Project Number : 30250.60001

Report Date : 2/25/00

Field ID : LH2

Collection Date : 1/26/00

Lab Sample Number : 900285-001

Matrix Type : WATER

Lab Project Number : 900285

WI DNR LAB ID : 113172950

METHANE

Prep Method: MOD. 8015

Prep Date: 2/2/00

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	< 10			10	ug/l	SUB	2/2/00	MOD. 8015

All soil results are reported on a dry weight basis unless otherwise noted.

Units of %Recov(ery) denote surrogate spike recovery. All recoveries pass in-house control limits unless otherwise noted.



**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON  
 Project Number : 30250.60001  
 Field ID : LH1  
 Lab Sample Number : 900285-002  
 Lab Project Number : 900285

Submitter : EARTH TECH INC  
 Report Date : 2/25/00  
 Collection Date : 1/26/00  
 Matrix Type : WATER  
 WI DNR LAB ID : 113172950

**Semivolatile Organic Results**

ETHANE Prep Method: MOD. 8015 Prep Date: 2/2/00

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	< 10			10	ug/l	SUB	2/2/00	MOD. 8015

ETHENE Prep Method: MOD. 8015 Prep Date: 2/2/00

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l	SUB	2/2/00	MOD. 8015

**Volatile Organic Results**

8260 VOLATILE LIST-Modified

Prep Method: SW846 5030B

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6		ug/L		1/31/00	SW846 8260B
1,1,1-Trichloroethane	< 0.53	0.53	1.7		ug/L		1/31/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2		ug/L		1/31/00	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5		ug/L		1/31/00	SW846 8260B
1,1-Dichloroethane	8.8	0.61	1.9		ug/L		1/31/00	SW846 8260B
1,1-Dichloroethene	1.3	0.47	1.5		ug/L	Q	1/31/00	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		1/31/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8		ug/L		1/31/00	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3		ug/L		1/31/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1		ug/L		1/31/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5		ug/L		1/31/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		1/31/00	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		1/31/00	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		1/31/00	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		1/31/00	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		1/31/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4		ug/L		1/31/00	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		1/31/00	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		1/31/00	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		1/31/00	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		1/31/00	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		1/31/00	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		1/31/00	SW846 8260B
Benzene	< 0.44	0.44	1.4		ug/L		1/31/00	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		1/31/00	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		1/31/00	SW846 8260B



**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Submitter : EARTH TECH INC

Project Number : 30250.60001

Report Date : 2/25/00

Field ID : LH1

Collection Date : 1/26/00

Lab Sample Number : 900285-002

Matrix Type : WATER

Lab Project Number : 900285

WI DNR LAB ID : 113172950

Bromodichloromethane	< 0.41	0.41	1.3	ug/L	1/31/00	SW846 8260B
Bromoform	< 0.58	0.58	1.8	ug/L	1/31/00	SW846 8260B
Bromomethane	< 0.94	0.94	3.0	ug/L	1/31/00	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9	ug/L	1/31/00	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4	ug/L	1/31/00	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4	ug/L	1/31/00	SW846 8260B
Chloroethane	< 0.63	0.63	2.0	ug/L	1/31/00	SW846 8260B
Chloroform	< 0.41	0.41	1.3	ug/L	1/31/00	SW846 8260B
Chloromethane	< 0.44	0.44	1.4	ug/L	1/31/00	SW846 8260B
cis-1,2-Dichloroethene	120	0.46	1.5	ug/L	1/31/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.54	0.54	1.7	ug/L	1/31/00	SW846 8260B
Dibromomethane	< 0.60	0.60	1.9	ug/L	1/31/00	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9	ug/L	1/31/00	SW846 8260B
Diisopropyl ether	< 0.42	0.42	1.3	ug/L	1/31/00	SW846 8260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L	1/31/00	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L	1/31/00	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L	1/31/00	SW846 8260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L	1/31/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.44	0.44	1.4	ug/L	1/31/00	SW846 8260B
Methylene chloride	< 0.38	0.38	1.2	ug/L	1/31/00	SW846 8260B
n-Butylbenzene	< 0.39	0.39	1.2	ug/L	1/31/00	SW846 8260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L	1/31/00	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L	1/31/00	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L	1/31/00	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8	ug/L	1/31/00	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L	1/31/00	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6	ug/L	1/31/00	SW846 8260B
Tetrachloroethene	4.4	0.41	1.3	ug/L	1/31/00	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L	1/31/00	SW846 8260B
trans-1,2-Dichloroethene	5.1	0.64	2.0	ug/L	1/31/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.26	0.26	0.83	ug/L	1/31/00	SW846 8260B
Trichloroethene	29	0.49	1.6	ug/L	1/31/00	SW846 8260B
Vinyl chloride	130	0.17	0.54	ug/L	1/31/00	SW846 8260B
Xylene, -o	< 0.54	0.54	1.7	ug/L	1/31/00	SW846 8260B
Xylenes, -m, -p	< 0.77	0.77	2.5	ug/L	1/31/00	SW846 8260B
4-Bromofluorobenzene	109			%Recov	1/31/00	SW846 8260B
Dibromofluoromethane	110			%Recov	1/31/00	SW846 8260B
Toluene-d8	108			%Recov	1/31/00	SW846 8260B

**Madison Office & Laboratory**  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



**Corporate Office & Laboratory**  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Submitter : EARTH TECH INC

Project Number : 30250.60001

Report Date : 2/25/00

Field ID : LH1

Collection Date : 1/26/00

Lab Sample Number : 900285-002

Matrix Type : WATER

Lab Project Number : 900285

WI DNR LAB ID : 113172950

**METHANE**

Prep Method: MOD. 8015

Prep Date: 2/2/00

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	48			25	ug/l	SUB	2/2/00	MOD. 8015

All soil results are reported on a dry weight basis unless otherwise noted.

Units of %Recov(ery) denote surrogate spike recovery. All recoveries pass in-house control limits unless otherwise noted.





**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Submitter : EARTH TECH INC

Project Number : 30250.60001

Report Date : 2/25/00

Field ID : P4B

Collection Date : 1/26/00

Lab Sample Number : 900285-003

Matrix Type : WATER

Lab Project Number : 900285

WI DNR LAB ID : 113172950

**Semivolatile Organic Results**

ETHANE  
 Prep Method: MOD. 8015      Prep Date: 2/2/00

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	< 10			10	ug/l	SUB	2/2/00	MOD. 8015

ETHENE  
 Prep Method: MOD. 8015      Prep Date: 2/2/00

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l	SUB	2/2/00	MOD. 8015

**Volatile Organic Results**

8260 VOLATILE LIST-Modified

Prep Method: SW846 5030B

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6		ug/L		1/31/00	SW846 8260B
1,1,1-Trichloroethane	< 0.53	0.53	1.7		ug/L		1/31/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2		ug/L		1/31/00	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5		ug/L		1/31/00	SW846 8260B
1,1-Dichloroethane	< 0.61	0.61	1.9		ug/L		1/31/00	SW846 8260B
1,1-Dichloroethene	< 0.47	0.47	1.5		ug/L		1/31/00	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		1/31/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8		ug/L		1/31/00	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3		ug/L		1/31/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1		ug/L		1/31/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5		ug/L		1/31/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		1/31/00	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		1/31/00	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		1/31/00	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		1/31/00	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		1/31/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4		ug/L		1/31/00	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		1/31/00	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		1/31/00	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		1/31/00	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		1/31/00	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		1/31/00	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		1/31/00	SW846 8260B
Benzene	< 0.44	0.44	1.4		ug/L		1/31/00	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		1/31/00	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		1/31/00	SW846 8260B



**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Submitter : EARTH TECH INC**

**Project Number : 30250.60001**

**Report Date : 2/25/00**

**Field ID : P4B**

**Collection Date : 1/26/00**

**Lab Sample Number : 900285-003**

**Matrix Type : WATER**

**Lab Project Number : 900285**

**WI DNR LAB ID : 113172950**

Bromodichloromethane	< 0.41	0.41	1.3	ug/L		1/31/00	SW846 8260B
Bromoform	< 0.58	0.58	1.8	ug/L		1/31/00	SW846 8260B
Bromomethane	< 0.94	0.94	3.0	ug/L		1/31/00	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9	ug/L		1/31/00	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4	ug/L		1/31/00	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4	ug/L		1/31/00	SW846 8260B
Chloroethane	< 0.63	0.63	2.0	ug/L		1/31/00	SW846 8260B
Chloroform	< 0.41	0.41	1.3	ug/L		1/31/00	SW846 8260B
Chloromethane	< 0.44	0.44	1.4	ug/L		1/31/00	SW846 8260B
cis-1,2-Dichloroethene	0.95	0.46	1.5	ug/L	Q	1/31/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.54	0.54	1.7	ug/L		1/31/00	SW846 8260B
Dibromomethane	< 0.60	0.60	1.9	ug/L		1/31/00	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9	ug/L		1/31/00	SW846 8260B
Diisopropyl ether	< 0.42	0.42	1.3	ug/L		1/31/00	SW846 8260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L		1/31/00	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L		1/31/00	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L		1/31/00	SW846 8260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L		1/31/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.44	0.44	1.4	ug/L		1/31/00	SW846 8260B
Methylene chloride	< 0.38	0.38	1.2	ug/L		1/31/00	SW846 8260B
n-Butylbenzene	< 0.39	0.39	1.2	ug/L		1/31/00	SW846 8260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L		1/31/00	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L		1/31/00	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L		1/31/00	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8	ug/L		1/31/00	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L		1/31/00	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6	ug/L		1/31/00	SW846 8260B
Tetrachloroethene	< 0.41	0.41	1.3	ug/L		1/31/00	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L		1/31/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.64	0.64	2.0	ug/L		1/31/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.26	0.26	0.83	ug/L		1/31/00	SW846 8260B
Trichloroethene	1.2	0.49	1.6	ug/L	Q	1/31/00	SW846 8260B
Vinyl chloride	< 0.17	0.17	0.54	ug/L		1/31/00	SW846 8260B
Xylene, -o	< 0.54	0.54	1.7	ug/L		1/31/00	SW846 8260B
Xylenes, -m, -p	< 0.77	0.77	2.5	ug/L		1/31/00	SW846 8260B
4-Bromofluorobenzene	108			%Recov		1/31/00	SW846 8260B
Dibromofluoromethane	110			%Recov		1/31/00	SW846 8260B
Toluene-d8	107			%Recov		1/31/00	SW846 8260B

**Madison Office & Laboratory**  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



**Corporate Office & Laboratory**  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Submitter : EARTH TECH INC**

**Project Number : 30250.60001**

**Report Date : 2/25/00**

**Field ID : P4B**

**Collection Date : 1/26/00**

**Lab Sample Number : 900285-003**

**Matrix Type : WATER**

**Lab Project Number : 900285**

**WI DNR LAB ID : 113172950**

**METHANE**

**Prep Method: MOD. 8015**

**Prep Date: 2/2/00**

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	< 10			10	ug/l	SUB	2/2/00	MOD. 8015

All soil results are reported on a dry weight basis unless otherwise noted.

Units of %Recov(ery) denote surrogate spike recovery. All recoveries pass in-house control limits unless otherwise noted.



### Organic Data Qualifier Sheet

- B** Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory LOD. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
- C** Elevated detection limit (see Sample Narrative).
- D** Analyte value from diluted analysis.
- DL** No surrogate recovery available due to sample dilution.
- E** Analyte concentration exceeds calibration range (see Sample Narrative).
- F** Repeated surrogate failure (see Sample Narrative).
- G** Sample exhibits hydrocarbon pattern resembling gasoline.
- H(n)** Analysis performed "n" days past holding time.
- J** Qualitative evidence of analyte present: concentration detected is greater than the method detection limit but less than the reporting limit.
- K** Detection Limit may be elevated due to the presence of an unrequested analyte (see Sample Narrative).
- L** Detects in trip blank.
- M** Methanol leakage.
- ND** Not Detected.
- NR** Not Required.
- P** The relative percent difference for detected concentrations between the two GC columns was greater than 40 % difference.
- Q** The analyte has been detected between the Limit of Detection (LOD) and limit of Quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
- U#** Elevated LOD due to matrix interference.
- V** Heavy hydrocarbon present.
- W** Sample received with headspace.
- X** See Sample Narrative
- Z** See Sample Narrative

**Madison Office & Laboratory**  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



**Corporate Office & Laboratory**  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

---

SUB Assay was subcontracted to an approved lab.

SUB Assay was subcontracted to En Chem Green Bay WI Cert. # : 405132750.



### Inorganic Data Qualifier Sheet

- A** Analyte is detected in the method blank. Method blank criteria is evaluated to the laboratory LOD. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
- AI** Due to the matrix of this sample the alternate isotope was used for analysis.
- B** Analyte is detected in the method blank at "x" concentration. Method blank criteria is evaluated to the laboratory LOD. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
- BB** BOD result is estimated due to the BOD blank exceeding the allowable oxygen depletion.
- BD** BOD duplicate precision not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
- BI** BOD result is estimated due to insufficient oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
- BL** BOD laboratory control sample not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
- BX** BOD result is estimated due to complete oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
- DA** Dissolved analyte or filtered analyte greater than total analyte; analyses passed QC based on precision criteria.
- DF** Dissolved analyte or filtered analyte greater than total analyte; analyses failed QC based on precision criteria.
- E** Estimated concentration due to matrix interferences. During the metals analysis using the inductively coupled plasma (ICP), the serial dilution failed to meet the established control limits of 0-10% and the sample concentrations greater than 50 times the EQL. The result was flagged with the E qualifier to indicate that a physical interference was observed.
- ED** Elevated detection limit due to matrix effects.
- G** Unable to determine precision due to matrix interference.
- H(n)** Analysis performed "n" days past holding time (See Sample Narrative).
- K** Sample received unpreserved. Sample was either preserved at the time of receipt or at the time of sample preparation.
- LV** Elevated detection limit due to low sample volume.
- MS** Either the matrix spike or matrix spike duplicate was outside of the acceptable control limits. All other supporting QC was within the acceptable control limits.
- N** Spiked sample recovery not within control limits; post-digestion spike recovery accepted.



**Madison Office & Laboratory**  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



**Corporate Office & Laboratory**  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

- NP Digested and post-digested spike recoveries fail accuracy control limits.
- NR Not required.
- Q The analyte has been detected between the Limit of Detection (LOD) and Limit of Quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
- Sub Assay was subcontracted to an approved lab.
- UN Unable to preserve sample due to matrix.
- X See sample narrative.
- \* Duplicate analyses not within control limits.

**GROUNDWATER MONITORING DATA**

**MARCH, 2000**

**Madison Office & Laboratory**  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



**Corporate Office & Laboratory**  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

**- Analytical Report -**

**Project Name : GRAFTON**  
**Project Number : 1216.02**

**Client : EARTH TECH INC**  
**Report Date : 4/10/00**  
**WI DNR LAB ID : 113172950**

Lab Sample No.	Field ID	Collection Date	Lab Sample No.	Field ID	Collection Date
901036-001	RB03 2400	3/24/00			
901036-002	P4B	3/24/00			
901036-003	P4A	3/24/00			
901036-004	LW1	3/24/00			
901036-005	LW2	3/24/00			
901036-006	TB032400	3/24/00			

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample narrative. Release of this final report is authorized by Laboratory management, as is verified by the following signature.

Approval Signature

Date

04-11-00

**Madison Office & Laboratory**  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



**Corporate Office & Laboratory**  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

**- Analytical Report -**

Project Name : GRAFTON  
Project Number : 1216.02

Client : EARTH TECH INC  
Report Date : 4/10/00  
WI DNR LAB ID : 113172950

Lab Sample No.	Field ID	Collection Date	Lab Sample No.	Field ID	Collection Date
901035-001	P1788	3/23/00			
901035-002	P1788D	3/23/00			
901035-003	P8A	3/23/00			
901035-004	P4B	3/23/00			
901035-005	P3B	3/23/00			
901035-006	TB032300	3/23/00			

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample narrative. Release of this final report is authorized by Laboratory management, as is verified by the following signature.

Approval Signature

Date

04-11-00

**Madison Office & Laboratory**  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



**Corporate Office & Laboratory**  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

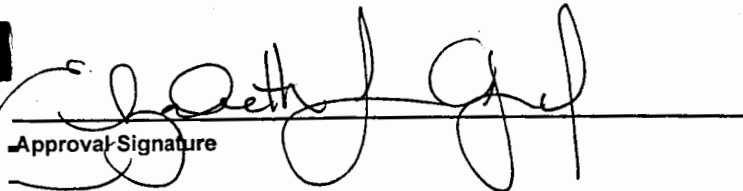
**- Analytical Report -**

**Project Name : GRAFTON**  
**Project Number : 1216.02**

**Client : EARTH TECH INC**  
**Report Date : 4/11/00**  
**WI DNR LAB ID : 113172950**

Lab Sample No.	Field ID	Collection Date	Lab Sample No.	Field ID	Collection Date
901022-001	P1749B	3/23/00			
901022-002	P7B	3/23/00			
901022-003	TB032300	3/23/00			

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample narrative. Release of this final report is authorized by Laboratory management, as is verified by the following signature.

  
Approval Signature

04-11-00  
Date



1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436  
800-7-ENCHEM  
FAX: 920-469-8827

- Analytical Report -

Project Name : GRAFTON

Project Number : 30250

Client: EARTH TECH INC

WI DNR LAB ID : 405132750

Sample No.	Field ID	Collection Date	Sample No.	Field ID	Collection Date
801078-001	P7B150	3/15/00			
801078-002	P7B135	3/15/00			
801078-003	P7B55	3/15/00			
801078-004	TRIP BLANKS	3/15/00			

Please visit our Internet homepage at: [www.encheminc.com](http://www.encheminc.com)

The "Q" flag is present when a parameter has been detected below the LOQ. This indicates the results are qualified due to the uncertainty of the parameter concentration between the LOD and the LOQ.

Soil VOC detects are corrected for the total solids, unless otherwise noted.

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. Reported results shall not be reproduced, except in full, without the written approval of the lab. The sample results relate only to the analytes of interest tested.

J. Duranseau  
Approval Signature

3/20/00  
Date



# En Chem Inc.

1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436  
800-7-ENCHEM  
Fax: 920-469-8827

---

Lab#: 801078-004  
TestGroupID: SPECVOA-W  
TRIP BLANKS

Comment: Methylene chloride is present in the laboratory environment. Detects should be considered suspect.

Madison Office & Laboratory  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



Corporate Office & Laboratory  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

**- Analytical Report -**

Project Name : GRAFTON  
Project Number :  
Station ID : P1749B  
Lab Sample Number : 901022-001  
Lab Project Number : 901022

Submitter : EARTH TECH INC  
Report Date : 4/11/00  
Collection Date : 3/23/00  
Matrix Type : WATER  
WI DNR LAB ID : 113172950

**Inorganic Results**

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Arsenic - Dissolved	< 6.8	6.8	22		ug/L		4/3/00	SW846 6010B	SW846 6010B
Barium - Dissolved	69	0.12	0.38		ug/L		4/3/00	SW846 6010B	SW846 6010B
Cadmium - Dissolved	< 0.50	0.50	1.6		ug/L		4/3/00	SW846 6010B	SW846 6010B
Chromium - Dissolved	0.55	0.53	1.7		ug/L	QA(0.62)	4/3/00	SW846 6010B	SW846 6010B
Lead - Dissolved	< 2.8	2.8	8.9		ug/L		4/3/00	SW846 6010B	SW846 6010B
Mercury - Dissolved	< 0.042	0.042	0.13		ug/L		3/31/00	SW846 7470A	SW846 7470A
Selenium - Dissolved	< 8.7	8.7	28		ug/L		4/3/00	SW846 6010B	SW846 6010B
Silver - Dissolved	< 0.60	0.60	1.9		ug/L		4/3/00	SW846 6010B	SW846 6010B

**Madison Office & Laboratory**  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



**Corporate Office & Laboratory**  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

**- Analytical Report -**

**Project Name :** GRAFTON  
**Project Number :**  
**Station ID :** P7B  
**Lab Sample Number :** 901022-002  
**Lab Project Number :** 901022

**Submitter :** EARTH TECH INC  
**Report Date :** 4/11/00  
**Collection Date :** 3/23/00  
**Matrix Type :** WATER  
**WI DNR LAB ID :** 113172950

**Inorganic Results**

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Arsenic - Dissolved	< 6.8	6.8	22		ug/L		4/3/00	SW846 6010B	SW846 6010B
Barium - Dissolved	83	0.12	0.38		ug/L		4/3/00	SW846 6010B	SW846 6010B
Cadmium - Dissolved	< 0.50	0.50	1.6		ug/L		4/3/00	SW846 6010B	SW846 6010B
Chromium - Dissolved	< 0.53	0.53	1.7		ug/L		4/3/00	SW846 6010B	SW846 6010B
Lead - Dissolved	< 2.8	2.8	8.9		ug/L		4/3/00	SW846 6010B	SW846 6010B
Mercury - Dissolved	< 0.042	0.042	0.13		ug/L		3/31/00	SW846 7470A	SW846 7470A
Selenium - Dissolved	< 8.7	8.7	28		ug/L		4/3/00	SW846 6010B	SW846 6010B
Silver - Dissolved	< 0.60	0.60	1.9		ug/L		4/3/00	SW846 6010B	SW846 6010B

**Madison Office & Laboratory**  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



**Corporate Office & Laboratory**  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

**- Analytical Report -**

Project Name : GRAFTON

Submitter : EARTH TECH INC

Project Number :

Report Date : 4/10/00

Station ID : P1788

Collection Date : 3/23/00

Lab Sample Number : 901035-001

Matrix Type : WATER

Lab Project Number : 901035

WI DNR LAB ID : 113172950

**Inorganic Results**

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Arsenic - Dissolved	< 6.8	6.8	22		ug/L		4/3/00	SW846 6010B	SW846 6010B
Barium - Dissolved	98	0.12	0.38		ug/L		4/3/00	SW846 6010B	SW846 6010B
Cadmium - Dissolved	< 0.50	0.50	1.6		ug/L		4/3/00	SW846 6010B	SW846 6010B
Chromium - Dissolved	< 0.53	0.53	1.7		ug/L		4/3/00	SW846 6010B	SW846 6010B
Lead - Dissolved	< 2.8	2.8	8.9		ug/L		4/3/00	SW846 6010B	SW846 6010B
Mercury - Dissolved	< 0.042	0.042	0.13		ug/L		3/31/00	SW846 7470A	SW846 7470A
Selenium - Dissolved	< 8.7	8.7	28		ug/L		4/3/00	SW846 6010B	SW846 6010B
Silver - Dissolved	< 0.60	0.60	1.9		ug/L		4/3/00	SW846 6010B	SW846 6010B

Madison Office & Laboratory  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



Corporate Office & Laboratory  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

**- Analytical Report -**

Project Name : GRAFTON  
Project Number :  
Station ID : P1788D  
Lab Sample Number : 901035-002  
Lab Project Number : 901035

Submitter : EARTH TECH INC  
Report Date : 4/10/00  
Collection Date : 3/23/00  
Matrix Type : WATER  
WI DNR LAB ID : 113172950

**Inorganic Results**

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Arsenic - Dissolved	< 6.8	6.8	22		ug/L		4/3/00	SW846 6010B	SW846 6010B
Barium - Dissolved	99	0.12	0.38		ug/L		4/3/00	SW846 6010B	SW846 6010B
Cadmium - Dissolved	< 0.50	0.50	1.6		ug/L		4/3/00	SW846 6010B	SW846 6010B
Chromium - Dissolved	< 0.53	0.53	1.7		ug/L	A(0.62)	4/3/00	SW846 6010B	SW846 6010B
Lead - Dissolved	< 2.8	2.8	8.9		ug/L		4/3/00	SW846 6010B	SW846 6010B
Mercury - Dissolved	< 0.042	0.042	0.13		ug/L		3/31/00	SW846 7470A	SW846 7470A
Selenium - Dissolved	< 8.7	8.7	28		ug/L		4/3/00	SW846 6010B	SW846 6010B
Silver - Dissolved	< 0.60	0.60	1.9		ug/L		4/3/00	SW846 6010B	SW846 6010B

Madison Office & Laboratory  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



Corporate Office & Laboratory  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

- Analytical Report -

Project Name : GRAFTON  
Project Number :  
Station ID : RB03 2400  
Lab Sample Number : 901036-001  
Lab Project Number : 901036

Submitter : EARTH TECH INC  
Report Date : 4/10/00  
Collection Date : 3/24/00  
Matrix Type : BLANK  
WI DNR LAB ID : 113172950

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Arsenic - Dissolved	< 6.8	6.8	22		ug/L		4/3/00	SW846 6010B	SW846 6010B
Barium - Dissolved	0.85	0.12	0.38		ug/L		4/3/00	SW846 6010B	SW846 6010B
Cadmium - Dissolved	0.68	0.50	1.6		ug/L	Q	4/3/00	SW846 6010B	SW846 6010B
Chromium - Dissolved	0.65	0.53	1.7		ug/L	QA(0.62)	4/3/00	SW846 6010B	SW846 6010B
Lead - Dissolved	< 2.8	2.8	8.9		ug/L		4/3/00	SW846 6010B	SW846 6010B
Mercury - Dissolved	< 0.042	0.042	0.13		ug/L		3/29/00	SW846 7470A	SW846 7470A
Selenium - Dissolved	< 8.7	8.7	28		ug/L		4/3/00	SW846 6010B	SW846 6010B
Silver - Dissolved	< 0.60	0.60	1.9		ug/L		4/3/00	SW846 6010B	SW846 6010B
Chloride	< 0.15	0.15	0.48		mg/L		3/27/00	EPA 300.0	EPA 300.0
Nitrogen, nitrate	< 0.080	0.080	0.25		mg/L		3/27/00	EPA 300.0	EPA 300.0
Nitrogen, NO3 + NO2	< 0.037	0.037	0.12		mg/L		3/31/00	EPA 353.2	EPA 353.2



**Madison Office & Laboratory**  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



**Corporate Office & Laboratory**  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

**- Analytical Report -**

Project Name : GRAFTON  
Project Number :  
Station ID : P4B  
Lab Sample Number : 901036-002  
Lab Project Number : 901036

Submitter : EARTH TECH INC  
Report Date : 4/10/00  
Collection Date : 3/24/00  
Matrix Type : WATER  
WI DNR LAB ID : 113172950

**Inorganic Results**

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Arsenic - Dissolved	< 6.8	6.8	22		ug/L		4/3/00	SW846 6010B	SW846 6010B
Barium - Dissolved	72	0.12	0.38		ug/L		4/3/00	SW846 6010B	SW846 6010B
Cadmium - Dissolved	1.1	0.50	1.6		ug/L	Q	4/3/00	SW846 6010B	SW846 6010B
Chromium - Dissolved	1.7	0.53	1.7		ug/L	A(0.62)	4/3/00	SW846 6010B	SW846 6010B
Lead - Dissolved	< 2.8	2.8	8.9		ug/L		4/3/00	SW846 6010B	SW846 6010B
Mercury - Dissolved	< 0.042	0.042	0.13		ug/L		3/29/00	SW846 7470A	SW846 7470A
Selenium - Dissolved	< 8.7	8.7	28		ug/L		4/3/00	SW846 6010B	SW846 6010B
Silver - Dissolved	< 0.60	0.60	1.9		ug/L		4/3/00	SW846 6010B	SW846 6010B
Chloride	110	1.5	4.8		mg/L		3/27/00	EPA 300.0	EPA 300.0
Nitrogen, nitrate	0.13	0.080	0.25		mg/L	Q	3/27/00	EPA 300.0	EPA 300.0
Nitrogen, NO3 + NO2	0.13	0.037	0.12		mg/L		3/31/00	EPA 353.2	EPA 353.2

Madison Office & Laboratory  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



Corporate Office & Laboratory  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

- Analytical Report -

Project Name : GRAFTON  
Project Number :  
Station ID : P4A  
Lab Sample Number : 901036-003  
Lab Project Number : 901036

Submitter : EARTH TECH INC  
Report Date : 4/10/00  
Collection Date : 3/24/00  
Matrix Type : WATER  
WI DNR LAB ID : 113172950

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Arsenic - Dissolved	< 6.8	6.8	22		ug/L		4/3/00	SW846 6010B	SW846 6010B
Barium - Dissolved	43	0.12	0.38		ug/L		4/3/00	SW846 6010B	SW846 6010B
Cadmium - Dissolved	< 0.50	0.50	1.6		ug/L		4/3/00	SW846 6010B	SW846 6010B
Chromium - Dissolved	0.89	0.53	1.7		ug/L	QA(0.62)	4/3/00	SW846 6010B	SW846 6010B
Lead - Dissolved	< 2.8	2.8	8.9		ug/L		4/3/00	SW846 6010B	SW846 6010B
Mercury - Dissolved	< 0.042	0.042	0.13		ug/L		3/29/00	SW846 7470A	SW846 7470A
Selenium - Dissolved	< 8.7	8.7	28		ug/L		4/3/00	SW846 6010B	SW846 6010B
Silver - Dissolved	< 0.60	0.60	1.9		ug/L		4/3/00	SW846 6010B	SW846 6010B
Chloride	240	1.5	4.8		mg/L		3/27/00	EPA 300.0	EPA 300.0
Nitrogen, nitrate	< 0.080	0.080	0.25		mg/L		3/27/00	EPA 300.0	EPA 300.0
Nitrogen, NO3 + NO2	< 0.037	0.037	0.12		mg/L		3/31/00	EPA 353.2	EPA 353.2

**Madison Office & Laboratory**  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



**Corporate Office & Laboratory**  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

**- Analytical Report -**

**Project Name :** GRAFTON  
**Project Number :**  
**Station ID :** LW1  
**Lab Sample Number :** 901036-004  
**Lab Project Number :** 901036

**Submitter :** EARTH TECH INC  
**Report Date :** 4/10/00  
**Collection Date :** 3/24/00  
**Matrix Type :** WATER  
**WI DNR LAB ID :** 113172950

**Inorganic Results**

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Arsenic - Dissolved	< 6.8	6.8	22		ug/L		4/3/00	SW846 6010B	SW846 6010B
Barium - Dissolved	47	0.12	0.38		ug/L		4/3/00	SW846 6010B	SW846 6010B
Cadmium - Dissolved	< 0.50	0.50	1.6		ug/L		4/3/00	SW846 6010B	SW846 6010B
Chromium - Dissolved	< 0.53	0.53	1.7		ug/L		4/3/00	SW846 6010B	SW846 6010B
Lead - Dissolved	< 2.8	2.8	8.9		ug/L		4/3/00	SW846 6010B	SW846 6010B
Mercury - Dissolved	0.55	0.042	0.13		ug/L	A(.059)	3/29/00	SW846 7470A	SW846 7470A
Selenium - Dissolved	< 8.7	8.7	28		ug/L		4/3/00	SW846 6010B	SW846 6010B
Silver - Dissolved	< 0.60	0.60	1.9		ug/L		4/3/00	SW846 6010B	SW846 6010B
Chloride	140	1.5	4.8		mg/L		3/27/00	EPA 300.0	EPA 300.0
Nitrogen, nitrate	1.8	0.080	0.25		mg/L		3/27/00	EPA 300.0	EPA 300.0
Nitrogen, NO3 + NO2	4.0	0.18	0.57		mg/L		3/31/00	EPA 353.2	EPA 353.2

Madison Office & Laboratory  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



Corporate Office & Laboratory  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

**- Analytical Report -**

Project Name : GRAFTON  
Project Number :  
Station ID : LW2  
Lab Sample Number : 901036-005  
Lab Project Number : 901036

Submitter : EARTH TECH INC  
Report Date : 4/10/00  
Collection Date : 3/24/00  
Matrix Type : WATER  
WI DNR LAB ID : 113172950

**Inorganic Results**

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Arsenic - Dissolved	< 6.8	6.8	22		ug/L		4/3/00	SW846 6010B	SW846 6010B
Barium - Dissolved	40	0.12	0.38		ug/L		4/3/00	SW846 6010B	SW846 6010B
Cadmium - Dissolved	< 0.50	0.50	1.6		ug/L		4/3/00	SW846 6010B	SW846 6010B
Chromium - Dissolved	1.2	0.53	1.7		ug/L	QA(0.62)	4/3/00	SW846 6010B	SW846 6010B
Lead - Dissolved	< 2.8	2.8	8.9		ug/L		4/3/00	SW846 6010B	SW846 6010B
Mercury - Dissolved	< 0.042	0.042	0.13		ug/L		3/29/00	SW846 7470A	SW846 7470A
Selenium - Dissolved	< 8.7	8.7	28		ug/L		4/3/00	SW846 6010B	SW846 6010B
Silver - Dissolved	< 0.60	0.60	1.9		ug/L		4/3/00	SW846 6010B	SW846 6010B
Chloride	530	15	48		mg/L		3/27/00	EPA 300.0	EPA 300.0
Nitrogen, nitrate	0.42	0.080	0.25		mg/L		3/27/00	EPA 300.0	EPA 300.0
Nitrogen, NO3 + NO2	0.33	0.037	0.12		mg/L		3/31/00	EPA 353.2	EPA 353.2

**Madison Office & Laboratory**  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



**Corporate Office & Laboratory**  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

SAMPLE NARRATIVE  
VOLATILE GC/MS ORGANIC ANALYSIS

PROJECT NAME: EARTH TECH  
WORKORDER NUMBER: 901036  
DATE: 04/06/2000

The pH value is greater than 2 for the following samples: 901036-004(LW-1). 901036-005(LW-2) had headspace >6mm.



### Inorganic Data Qualifier Sheet

- A** Analyte is detected in the method blank. Method blank criteria is evaluated to the laboratory LOD. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
- AI** Due to the matrix of this sample the alternate isotope was used for analysis.
- B** Analyte is detected in the method blank at "x" concentration. Method blank criteria is evaluated to the laboratory LOD. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
- BB** BOD result is estimated due to the BOD blank exceeding the allowable oxygen depletion.
- BD** BOD duplicate precision not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
- BI** BOD result is estimated due to insufficient oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
- BL** BOD laboratory control sample not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
- BX** BOD result is estimated due to complete oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
- DA** Dissolved analyte or filtered analyte greater than total analyte; analyses passed QC based on precision criteria.
- DF** Dissolved analyte or filtered analyte greater than total analyte; analyses failed QC based on precision criteria.
- E** Estimated concentration due to matrix interferences. During the metals analysis using the inductively coupled plasma (ICP), the serial dilution failed to meet the established control limits of 0-10% and the sample concentrations greater than 50 times the EQL. The result was flagged with the E qualifier to indicate that a physical interference was observed.
- ED** Elevated detection limit due to matrix effects.
- G** Unable to determine precision due to matrix interference.
- H(n)** Analysis performed "n" days past holding time (See Sample Narrative).
- K** Sample received unpreserved. Sample was either preserved at the time of receipt or at the time of sample preparation.
- LV** Elevated detection limit due to low sample volume.
- MS** Either the matrix spike or matrix spike duplicate was outside of the acceptable control limits. All other supporting QC was within the acceptable control limits.
- N** Spiked sample recovery not within control limits; post-digestion spike recovery accepted.



**Madison Office & Laboratory**  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



**Corporate Office & Laboratory**  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

- NP Digested and post-digested spike recoveries fail accuracy control limits.
- NR Not required.
- Q The analyte has been detected between the Limit of Detection (LOD) and Limit of Quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
- Sub Assay was subcontracted to an approved lab.
- UN Unable to preserve sample due to matrix.
- X See sample narrative.
- \* Duplicate analyses not within control limits.

**- Analytical Report -**

Project Name : GRAFTON

Project Number : 30250

Field ID : P7B150

Lab Sample Number : 801078-001

WI DNR LAB ID : 405132750

Client : EARTH TECH INC

Report Date : 3/17/00

Collection Date : 3/15/00

Matrix Type : WATER

**Organic Results****SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030B Prep Date: 3/16/00 Analyst: JJB

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Acetone	< 1.0	1.0	3.2		ug/L		3/16/00	SW846 8260B
2-Butanone	< 0.89	0.89	2.8		ug/L		3/16/00	SW846 8260B
Benzene	< 0.27	0.27	0.86		ug/L		3/16/00	SW846 8260B
Bromodichloromethane	< 0.30	0.30	0.96		ug/L		3/16/00	SW846 8260B
Bromoform	< 0.44	0.44	1.4		ug/L		3/16/00	SW846 8260B
Bromomethane	< 0.70	0.70	2.2		ug/L		3/16/00	SW846 8260B
2-Chloroethylvinylether	< 0.53	0.53	1.7		ug/L		3/16/00	SW846 8260B
Carbon disulfide	< 0.24	0.24	0.76		ug/L		3/16/00	SW846 8260B
Carbon tetrachloride	< 0.34	0.34	1.1		ug/L		3/16/00	SW846 8260B
Chlorodibromomethane	< 0.42	0.42	1.3		ug/L		3/16/00	SW846 8260B
Chlorobenzene	< 0.23	0.23	0.73		ug/L		3/16/00	SW846 8260B
Chloroethane	< 0.54	0.54	1.7		ug/L		3/16/00	SW846 8260B
Chloroform	< 0.35	0.35	1.1		ug/L		3/16/00	SW846 8260B
Chloromethane	< 0.61	0.61	1.9		ug/L		3/16/00	SW846 8260B
1,1-Dichloroethane	< 0.35	0.35	1.1		ug/L		3/16/00	SW846 8260B
1,1-Dichloroethene	< 0.43	0.43	1.4		ug/L		3/16/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.41	0.41	1.3		ug/L		3/16/00	SW846 8260B
1,2-Dibromoethane	< 0.39	0.39	1.2		ug/L		3/16/00	SW846 8260B
1,2-Dichlorobenzene	< 0.25	0.25	0.80		ug/L		3/16/00	SW846 8260B
1,2-Dichloroethane	< 0.37	0.37	1.2		ug/L		3/16/00	SW846 8260B
1,3-Dichlorobenzene	< 0.34	0.34	1.1		ug/L		3/16/00	SW846 8260B
1,4-Dichlorobenzene	< 0.30	0.30	0.96		ug/L		3/16/00	SW846 8260B
Dichlorodifluoromethane	< 0.47	0.47	1.5		ug/L		3/16/00	SW846 8260B
cis-1,2-Dichloroethene	< 0.28	0.28	0.89		ug/L		3/16/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.32	0.32	1.0		ug/L		3/16/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.79	0.79	2.5		ug/L		3/16/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.43	0.43	1.4		ug/L		3/16/00	SW846 8260B
Ethylbenzene	< 0.32	0.32	1.0		ug/L		3/16/00	SW846 8260B
4-Methyl-2-pentanone	< 0.95	0.95	3.0		ug/L		3/16/00	SW846 8260B
Methylene chloride	< 0.36	0.36	1.1		ug/L		3/16/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.32	0.32	1.0		ug/L		3/16/00	SW846 8260B
Naphthalene	< 0.35	0.35	1.1		ug/L		3/16/00	SW846 8260B

**- Analytical Report -**

**Project Name : GRAFTON**

**Project Number : 30250**

**Field ID : P7B150**

**Lab Sample Number : 801078-001**

**WI DNR LAB ID : 405132750**

**Client : EARTH TECH INC**

**Report Date : 3/17/00**

**Collection Date : 3/15/00**

**Matrix Type : WATER**

Styrene	< 0.17	0.17	0.54	ug/L	3/16/00	SW846 8260B
1,1,1-Trichloroethane	< 0.30	0.30	0.96	ug/L	3/16/00	SW846 8260B
1,1,2-Trichloroethane	< 0.61	0.61	1.9	ug/L	3/16/00	SW846 8260B
Fluorotrichloromethane	< 0.28	0.28	0.89	ug/L	3/16/00	SW846 8260B
1,1,2-Trichlorotrifluoroethane	< 0.44	0.44	1.4	ug/L	3/16/00	SW846 8260B
Trichloroethene	< 0.37	0.37	1.2	ug/L	3/16/00	SW846 8260B
Tetrachloroethene	< 0.43	0.43	1.4	ug/L	3/16/00	SW846 8260B
Tetrahydrofuran	< 0.48	0.48	1.5	ug/L	3/16/00	SW846 8260B
Toluene	3.0	0.27	0.86	ug/L	3/16/00	SW846 8260B
Vinyl chloride	< 0.20	0.20	0.64	ug/L	3/16/00	SW846 8260B
4-Bromofluorobenzene	85			%Recov	3/16/00	SW846 8260B
Dibromofluoromethane	93			%Recov	3/16/00	SW846 8260B
Toluene-d8	91			%Recov	3/16/00	SW846 8260B

**- Analytical Report -**

Project Name : GRAFTON

Project Number : 30250

Field ID : P7B135

Lab Sample Number : 801078-002

WI DNR LAB ID : 405132750

Client : EARTH TECH INC

Report Date : 3/17/00

Collection Date : 3/15/00

Matrix Type : WATER

**Organic Results****SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030B

Prep Date: 3/16/00

Analyst: JJB

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Acetone	< 1.0	1.0	3.2		ug/L		3/16/00	SW846 8260B
2-Butanone	< 0.89	0.89	2.8		ug/L		3/16/00	SW846 8260B
Benzene	< 0.27	0.27	0.86		ug/L		3/16/00	SW846 8260B
Bromodichloromethane	< 0.30	0.30	0.96		ug/L		3/16/00	SW846 8260B
Bromoform	< 0.44	0.44	1.4		ug/L		3/16/00	SW846 8260B
Bromomethane	< 0.70	0.70	2.2		ug/L		3/16/00	SW846 8260B
2-Chloroethylvinylether	< 0.53	0.53	1.7		ug/L		3/16/00	SW846 8260B
Carbon disulfide	< 0.24	0.24	0.76		ug/L		3/16/00	SW846 8260B
Carbon tetrachloride	< 0.34	0.34	1.1		ug/L		3/16/00	SW846 8260B
Chlorodibromomethane	< 0.42	0.42	1.3		ug/L		3/16/00	SW846 8260B
Chlorobenzene	< 0.23	0.23	0.73		ug/L		3/16/00	SW846 8260B
Chloroethane	< 0.54	0.54	1.7		ug/L		3/16/00	SW846 8260B
Chloroform	< 0.35	0.35	1.1		ug/L		3/16/00	SW846 8260B
Chloromethane	< 0.61	0.61	1.9		ug/L		3/16/00	SW846 8260B
1,1-Dichloroethane	< 0.35	0.35	1.1		ug/L		3/16/00	SW846 8260B
1,1-Dichloroethene	< 0.43	0.43	1.4		ug/L		3/16/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.41	0.41	1.3		ug/L		3/16/00	SW846 8260B
1,2-Dibromoethane	< 0.39	0.39	1.2		ug/L		3/16/00	SW846 8260B
1,2-Dichlorobenzene	< 0.25	0.25	0.80		ug/L		3/16/00	SW846 8260B
1,2-Dichloroethane	< 0.37	0.37	1.2		ug/L		3/16/00	SW846 8260B
1,3-Dichlorobenzene	< 0.34	0.34	1.1		ug/L		3/16/00	SW846 8260B
1,4-Dichlorobenzene	< 0.30	0.30	0.96		ug/L		3/16/00	SW846 8260B
Dichlorodifluoromethane	< 0.47	0.47	1.5		ug/L		3/16/00	SW846 8260B
cis-1,2-Dichloroethene	< 0.28	0.28	0.89		ug/L		3/16/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.32	0.32	1.0		ug/L		3/16/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.79	0.79	2.5		ug/L		3/16/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.43	0.43	1.4		ug/L		3/16/00	SW846 8260B
Ethylbenzene	< 0.32	0.32	1.0		ug/L		3/16/00	SW846 8260B
4-Methyl-2-pentanone	< 0.95	0.95	3.0		ug/L		3/16/00	SW846 8260B
Methylene chloride	< 0.36	0.36	1.1		ug/L		3/16/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.32	0.32	1.0		ug/L		3/16/00	SW846 8260B
Naphthalene	< 0.35	0.35	1.1		ug/L		3/16/00	SW846 8260B

**- Analytical Report -**

**Project Name : GRAFTON**

**Project Number : 30250**

**Field ID : P7B135**

**Lab Sample Number : 801078-002**

**WI DNR LAB ID : 405132750**

**Client : EARTH TECH INC**

**Report Date : 3/17/00**

**Collection Date : 3/15/00**

**Matrix Type : WATER**

Styrene	< 0.17	0.17	0.54	ug/L	3/16/00	SW846 8260B
1,1,1-Trichloroethane	< 0.30	0.30	0.96	ug/L	3/16/00	SW846 8260B
1,1,2-Trichloroethane	< 0.61	0.61	1.9	ug/L	3/16/00	SW846 8260B
Fluorotrichloromethane	< 0.28	0.28	0.89	ug/L	3/16/00	SW846 8260B
1,1,2-Trichlorotrifluoroethane	< 0.44	0.44	1.4	ug/L	3/16/00	SW846 8260B
Trichloroethene	< 0.37	0.37	1.2	ug/L	3/16/00	SW846 8260B
Tetrachloroethene	< 0.43	0.43	1.4	ug/L	3/16/00	SW846 8260B
Tetrahydrofuran	< 0.48	0.48	1.5	ug/L	3/16/00	SW846 8260B
Toluene	3.8	0.27	0.86	ug/L	3/16/00	SW846 8260B
Vinyl chloride	< 0.20	0.20	0.64	ug/L	3/16/00	SW846 8260B
4-Bromofluorobenzene	85			%Recov	3/16/00	SW846 8260B
Dibromofluoromethane	90			%Recov	3/16/00	SW846 8260B
Toluene-d8	92			%Recov	3/16/00	SW846 8260B

**- Analytical Report -**

Project Name : GRAFTON

Project Number : 30250

Field ID : P7B55

Lab Sample Number : 801078-003

WI DNR LAB ID : 405132750

Client : EARTH TECH INC

Report Date : 3/17/00

Collection Date : 3/15/00

Matrix Type : WATER

**Organic Results****SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030B Prep Date: 3/16/00 Analyst: JJB

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Acetone	< 1.0	1.0	3.2		ug/L		3/16/00	SW846 8260B
2-Butanone	< 0.89	0.89	2.8		ug/L		3/16/00	SW846 8260B
Benzene	< 0.27	0.27	0.86		ug/L		3/16/00	SW846 8260B
Bromodichloromethane	< 0.30	0.30	0.96		ug/L		3/16/00	SW846 8260B
Bromoform	< 0.44	0.44	1.4		ug/L		3/16/00	SW846 8260B
Bromomethane	< 0.70	0.70	2.2		ug/L		3/16/00	SW846 8260B
2-Chloroethylvinylether	< 0.53	0.53	1.7		ug/L		3/16/00	SW846 8260B
Carbon disulfide	< 0.24	0.24	0.76		ug/L		3/16/00	SW846 8260B
Carbon tetrachloride	< 0.34	0.34	1.1		ug/L		3/16/00	SW846 8260B
Chlorodibromomethane	< 0.42	0.42	1.3		ug/L		3/16/00	SW846 8260B
Chlorobenzene	< 0.23	0.23	0.73		ug/L		3/16/00	SW846 8260B
Chloroethane	< 0.54	0.54	1.7		ug/L		3/16/00	SW846 8260B
Chloroform	< 0.35	0.35	1.1		ug/L		3/16/00	SW846 8260B
Chloromethane	< 0.61	0.61	1.9		ug/L		3/16/00	SW846 8260B
1,1-Dichloroethane	< 0.35	0.35	1.1		ug/L		3/16/00	SW846 8260B
1,1-Dichloroethene	< 0.43	0.43	1.4		ug/L		3/16/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.41	0.41	1.3		ug/L		3/16/00	SW846 8260B
1,2-Dibromoethane	< 0.39	0.39	1.2		ug/L		3/16/00	SW846 8260B
1,2-Dichlorobenzene	< 0.25	0.25	0.80		ug/L		3/16/00	SW846 8260B
1,2-Dichloroethane	< 0.37	0.37	1.2		ug/L		3/16/00	SW846 8260B
1,3-Dichlorobenzene	< 0.34	0.34	1.1		ug/L		3/16/00	SW846 8260B
1,4-Dichlorobenzene	< 0.30	0.30	0.96		ug/L		3/16/00	SW846 8260B
Dichlorodifluoromethane	< 0.47	0.47	1.5		ug/L		3/16/00	SW846 8260B
cis-1,2-Dichloroethene	< 0.28	0.28	0.89		ug/L		3/16/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.32	0.32	1.0		ug/L		3/16/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.79	0.79	2.5		ug/L		3/16/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.43	0.43	1.4		ug/L		3/16/00	SW846 8260B
Ethylbenzene	< 0.32	0.32	1.0		ug/L		3/16/00	SW846 8260B
4-Methyl-2-pentanone	< 0.95	0.95	3.0		ug/L		3/16/00	SW846 8260B
Methylene chloride	< 0.36	0.36	1.1		ug/L		3/16/00	SW846 8260B
Methyl-terf-butyl-ether	< 0.32	0.32	1.0		ug/L		3/16/00	SW846 8260B
Naphthalene	< 0.35	0.35	1.1		ug/L		3/16/00	SW846 8260B



**- Analytical Report -**

Project Name : GRAFTON

Project Number : 30250

Field ID : P7B55

Lab Sample Number : 801078-003

WI DNR LAB ID : 405132750

Client : EARTH TECH INC

Report Date : 3/17/00

Collection Date : 3/15/00

Matrix Type : WATER

Styrene	< 0.17	0.17	0.54	ug/L	3/16/00	SW846 8260B
1,1,1-Trichloroethane	< 0.30	0.30	0.96	ug/L	3/16/00	SW846 8260B
1,1,2-Trichloroethane	< 0.61	0.61	1.9	ug/L	3/16/00	SW846 8260B
Fluorotrichloromethane	< 0.28	0.28	0.89	ug/L	3/16/00	SW846 8260B
1,1,2-Trichlorotrifluoroethane	< 0.44	0.44	1.4	ug/L	3/16/00	SW846 8260B
Trichloroethene	< 0.37	0.37	1.2	ug/L	3/16/00	SW846 8260B
Tetrachloroethene	< 0.43	0.43	1.4	ug/L	3/16/00	SW846 8260B
Tetrahydrofuran	< 0.48	0.48	1.5	ug/L	3/16/00	SW846 8260B
Toluene	1.1	0.27	0.86	ug/L	3/16/00	SW846 8260B
Vinyl chloride	< 0.20	0.20	0.64	ug/L	3/16/00	SW846 8260B
4-Bromofluorobenzene	84			%Recov	3/16/00	SW846 8260B
Dibromofluoromethane	93			%Recov	3/16/00	SW846 8260B
Toluene-d8	91			%Recov	3/16/00	SW846 8260B

**- Analytical Report -**

Project Name : GRAFTON

Project Number : 30250

Client : EARTH TECH INC

Field ID : TRIP BLANKS

Report Date : 3/17/00

Lab Sample Number : 801078-004

Collection Date : 3/15/00

WI DNR LAB ID : 405132750

Matrix Type : WATER

**Organic Results****SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030B Prep Date: 3/16/00 Analyst: JJB

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Acetone	< 1.0	1.0	3.2		ug/L		3/16/00	SW846 8260B
2-Butanone	< 0.89	0.89	2.8		ug/L		3/16/00	SW846 8260B
Benzene	< 0.27	0.27	0.86		ug/L		3/16/00	SW846 8260B
Bromodichloromethane	< 0.30	0.30	0.96		ug/L		3/16/00	SW846 8260B
Bromofom	< 0.44	0.44	1.4		ug/L		3/16/00	SW846 8260B
Bromomethane	< 0.70	0.70	2.2		ug/L		3/16/00	SW846 8260B
2-Chloroethylvinylether	< 0.53	0.53	1.7		ug/L		3/16/00	SW846 8260B
Carbon disulfide	< 0.24	0.24	0.76		ug/L		3/16/00	SW846 8260B
Carbon tetrachloride	< 0.34	0.34	1.1		ug/L		3/16/00	SW846 8260B
Chlorodibromomethane	< 0.42	0.42	1.3		ug/L		3/16/00	SW846 8260B
Chlorobenzene	< 0.23	0.23	0.73		ug/L		3/16/00	SW846 8260B
Chloroethane	< 0.54	0.54	1.7		ug/L		3/16/00	SW846 8260B
Chloroform	< 0.35	0.35	1.1		ug/L		3/16/00	SW846 8260B
Chloromethane	< 0.61	0.61	1.9		ug/L		3/16/00	SW846 8260B
1,1-Dichloroethane	< 0.35	0.35	1.1		ug/L		3/16/00	SW846 8260B
1,1-Dichloroethene	< 0.43	0.43	1.4		ug/L		3/16/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.41	0.41	1.3		ug/L		3/16/00	SW846 8260B
1,2-Dibromoethane	< 0.39	0.39	1.2		ug/L		3/16/00	SW846 8260B
1,2-Dichlorobenzene	< 0.25	0.25	0.80		ug/L		3/16/00	SW846 8260B
1,2-Dichloroethane	< 0.37	0.37	1.2		ug/L		3/16/00	SW846 8260B
1,3-Dichlorobenzene	< 0.34	0.34	1.1		ug/L		3/16/00	SW846 8260B
1,4-Dichlorobenzene	< 0.30	0.30	0.96		ug/L		3/16/00	SW846 8260B
Dichlorodifluoromethane	< 0.47	0.47	1.5		ug/L		3/16/00	SW846 8260B
cis-1,2-Dichloroethene	< 0.28	0.28	0.89		ug/L		3/16/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.32	0.32	1.0		ug/L		3/16/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.79	0.79	2.5		ug/L		3/16/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.43	0.43	1.4		ug/L		3/16/00	SW846 8260B
Ethylbenzene	< 0.32	0.32	1.0		ug/L		3/16/00	SW846 8260B
4-Methyl-2-pentanone	< 0.95	0.95	3.0		ug/L		3/16/00	SW846 8260B
Methylene chloride	0.60	0.36	1.1		ug/L	Q	3/16/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.32	0.32	1.0		ug/L		3/16/00	SW846 8260B
Naphthalene	< 0.35	0.35	1.1		ug/L		3/16/00	SW846 8260B

- Analytical Report -

Project Name : GRAFTON

Project Number : 30250

Field ID : TRIP BLANKS

Lab Sample Number : 801078-004

WI DNR LAB ID : 405132750

Client : EARTH TECH INC

Report Date : 3/17/00

Collection Date : 3/15/00

Matrix Type : WATER

Styrene	< 0.17	0.17	0.54	ug/L	3/16/00	SW846 8260B
1,1,1-Trichloroethane	< 0.30	0.30	0.96	ug/L	3/16/00	SW846 8260B
1,1,2-Trichloroethane	< 0.61	0.61	1.9	ug/L	3/16/00	SW846 8260B
Fluorotrichloromethane	< 0.28	0.28	0.89	ug/L	3/16/00	SW846 8260B
1,1,2-Trichlorotrifluoroethane	< 0.44	0.44	1.4	ug/L	3/16/00	SW846 8260B
Trichloroethene	< 0.37	0.37	1.2	ug/L	3/16/00	SW846 8260B
Tetrachloroethene	< 0.43	0.43	1.4	ug/L	3/16/00	SW846 8260B
Tetrahydrofuran	< 0.48	0.48	1.5	ug/L	3/16/00	SW846 8260B
Toluene	< 0.27	0.27	0.86	ug/L	3/16/00	SW846 8260B
Vinyl chloride	< 0.20	0.20	0.64	ug/L	3/16/00	SW846 8260B
4-Bromofluorobenzene	82			%Recov	3/16/00	SW846 8260B
Dibromofluoromethane	91			%Recov	3/16/00	SW846 8260B
Toluene-d8	90			%Recov	3/16/00	SW846 8260B



**- Analytical Report -**

**Project Name :** GRAFTON  
**Project Number :**  
**Field ID :** P7B  
**Lab Sample Number :** 901022-002  
**Lab Project Number :** 901022

**Submitter :** EARTH TECH INC  
**Report Date :** 4/11/00  
**Collection Date :** 3/23/00  
**Matrix Type :** WATER  
**WI DNR LAB ID :** 113172950

**Semivolatile Organic Results**

<b>ETHANE</b>									
Prep Method: MOD. 8015									
Prep Date: 3/28/00									
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method	
Ethane	< 10			10	ug/l	SUB	3/28/00	MOD. 8015	

<b>ETHENE</b>									
Prep Method: MOD. 8015									
Prep Date: 3/28/00									
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method	
Ethene	< 10			10	ug/l	SUB	3/28/00	MOD. 8015	

**Volatile Organic Results**

**8260 VOLATILE LIST-Modified**

**Prep Method: SW846 5030B**

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method	
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6		ug/L		4/4/00	SW846 8260B	
1,1,1-Trichloroethane	< 0.53	0.53	1.7		ug/L		4/4/00	SW846 8260B	
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2		ug/L		4/4/00	SW846 8260B	
1,1,2-Trichloroethane	< 0.47	0.47	1.5		ug/L		4/4/00	SW846 8260B	
1,1-Dichloroethane	< 0.61	0.61	1.9		ug/L		4/4/00	SW846 8260B	
1,1-Dichloroethene	< 0.47	0.47	1.5		ug/L		4/4/00	SW846 8260B	
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		4/4/00	SW846 8260B	
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8		ug/L		4/4/00	SW846 8260B	
1,2,3-Trichloropropane	< 0.71	0.71	2.3		ug/L		4/4/00	SW846 8260B	
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1		ug/L		4/4/00	SW846 8260B	
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5		ug/L		4/4/00	SW846 8260B	
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		4/4/00	SW846 8260B	
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		4/4/00	SW846 8260B	
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		4/4/00	SW846 8260B	
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		4/4/00	SW846 8260B	
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		4/4/00	SW846 8260B	
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4		ug/L		4/4/00	SW846 8260B	
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		4/4/00	SW846 8260B	
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		4/4/00	SW846 8260B	
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		4/4/00	SW846 8260B	
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		4/4/00	SW846 8260B	
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		4/4/00	SW846 8260B	
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		4/4/00	SW846 8260B	
Benzene	< 0.44	0.44	1.4		ug/L		4/4/00	SW846 8260B	
Bromobenzene	< 0.46	0.46	1.5		ug/L		4/4/00	SW846 8260B	
Bromochloromethane	< 0.21	0.21	0.67		ug/L		4/4/00	SW846 8260B	



**- Analytical Report -**

**Project Name : GRAFTON**

**Submitter : EARTH TECH INC**

**Project Number :**

**Report Date : 4/11/00**

**Field ID : P7B**

**Collection Date : 3/23/00**

**Lab Sample Number : 901022-002**

**Matrix Type : WATER**

**Lab Project Number : 901022**

**WI DNR LAB ID : 113172950**

Bromodichloromethane	< 0.41	0.41	1.3	ug/L		4/4/00	SW846 8260B
Bromoform	< 0.58	0.58	1.8	ug/L		4/4/00	SW846 8260B
Bromomethane	< 0.94	0.94	3.0	ug/L		4/4/00	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9	ug/L		4/4/00	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4	ug/L		4/4/00	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4	ug/L		4/4/00	SW846 8260B
Chloroethane	< 0.63	0.63	2.0	ug/L		4/4/00	SW846 8260B
Chloroform	< 0.41	0.41	1.3	ug/L		4/4/00	SW846 8260B
Chloromethane	< 0.44	0.44	1.4	ug/L		4/4/00	SW846 8260B
cis-1,2-Dichloroethene	< 0.46	0.46	1.5	ug/L		4/4/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.54	0.54	1.7	ug/L		4/4/00	SW846 8260B
Dibromomethane	< 0.60	0.60	1.9	ug/L		4/4/00	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9	ug/L		4/4/00	SW846 8260B
Diisopropyl ether	< 0.42	0.42	1.3	ug/L		4/4/00	SW846 8260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L		4/4/00	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L		4/4/00	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L		4/4/00	SW846 8260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L		4/4/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.44	0.44	1.4	ug/L		4/4/00	SW846 8260B
Methylene chloride	< 0.38	0.38	1.2	ug/L		4/4/00	SW846 8260B
n-Butylbenzene	< 0.39	0.39	1.2	ug/L		4/4/00	SW846 8260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L		4/4/00	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L		4/4/00	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L		4/4/00	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8	ug/L		4/4/00	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L		4/4/00	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6	ug/L		4/4/00	SW846 8260B
Tetrachloroethene	< 0.41	0.41	1.3	ug/L		4/4/00	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L		4/4/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.64	0.64	2.0	ug/L		4/4/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.26	0.26	0.83	ug/L		4/4/00	SW846 8260B
Trichloroethene	0.90	0.49	1.6	ug/L	Q	4/4/00	SW846 8260B
Vinyl chloride	< 0.17	0.17	0.54	ug/L		4/4/00	SW846 8260B
Xylene, -o	< 0.54	0.54	1.7	ug/L		4/4/00	SW846 8260B
Xylenes, -m, -p	< 0.77	0.77	2.5	ug/L		4/4/00	SW846 8260B
4-Bromofluorobenzene	96			%Recov		4/4/00	SW846 8260B
Dibromofluoromethane	98			%Recov		4/4/00	SW846 8260B
Toluene-d8	101			%Recov		4/4/00	SW846 8260B

**Madison Office & Laboratory**  
525 Science Drive  
Madison, WI 53711  
808-232-3300 • Fax: 608-233-0502  
-888-5-ENCHEM



**Corporate Office & Laboratory**  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

**- Analytical Report -**

**Project Name : GRAFTON**

**Submitter : EARTH TECH INC**

**Project Number :**

**Report Date : 4/11/00**

**Field ID : P7B**

**Collection Date : 3/23/00**

**Lab Sample Number : 901022-002**

**Matrix Type : WATER**

**Lab Project Number : 901022**

**WI DNR LAB ID : 113172950**

---

<b>METHANE</b>		<b>Prep Method: MOD. 8015</b>			<b>Prep Date: 3/28/00</b>				
<b>Analyte</b>	<b>Result</b>	<b>LOD</b>	<b>LOQ</b>	<b>EQL</b>	<b>Units</b>	<b>Code</b>	<b>Analysis Date</b>	<b>Analysis Method</b>	
Methane	< 10			10	ug/l	SUB	3/28/00	MOD. 8015	

---

All soil results are reported on a dry weight basis unless otherwise noted.

Units of %Recov(ery) denote surrogate spike recovery. All recoveries pass in-house control limits unless otherwise noted.





**- Analytical Report -**

**Project Name :** GRAFTON  
**Project Number :**  
**Field ID :** P1749B  
**Lab Sample Number :** 901022-001  
**Lab Project Number :** 901022

**Submitter :** EARTH TECH INC  
**Report Date :** 4/11/00  
**Collection Date :** 3/23/00  
**Matrix Type :** WATER  
**WI DNR LAB ID :** 113172950

**Semivolatile Organic Results**

ETHANE		Prep Method: MOD. 8015			Prep Date: 3/28/00			
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	< 10			10	ug/l	SUB	3/28/00	MOD. 8015

ETHENE		Prep Method: MOD. 8015			Prep Date: 3/28/00			
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l	SUB	3/28/00	MOD. 8015

**Volatile Organic Results**

**8260 VOLATILE LIST-Modified**

**Prep Method: SW846 5030B**

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6		ug/L		4/4/00	SW846 8260B
1,1,1-Trichloroethane	< 0.53	0.53	1.7		ug/L		4/4/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2		ug/L		4/4/00	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5		ug/L		4/4/00	SW846 8260B
1,1-Dichloroethane	< 0.61	0.61	1.9		ug/L		4/4/00	SW846 8260B
1,1-Dichloroethene	< 0.47	0.47	1.5		ug/L		4/4/00	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		4/4/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8		ug/L		4/4/00	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3		ug/L		4/4/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1		ug/L		4/4/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5		ug/L		4/4/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		4/4/00	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		4/4/00	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		4/4/00	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		4/4/00	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		4/4/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4		ug/L		4/4/00	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		4/4/00	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		4/4/00	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		4/4/00	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		4/4/00	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		4/4/00	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		4/4/00	SW846 8260B
Benzene	< 0.44	0.44	1.4		ug/L		4/4/00	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		4/4/00	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		4/4/00	SW846 8260B



**- Analytical Report -**

Project Name : GRAFTON

Submitter : EARTH TECH INC

Project Number :

Report Date : 4/11/00

Field ID : P1749B

Collection Date : 3/23/00

Lab Sample Number : 901022-001

Matrix Type : WATER

Lab Project Number : 901022

WI DNR LAB ID : 113172950

Bromodichloromethane	< 0.41	0.41	1.3	ug/L	4/4/00	SW846 8260B
Bromoform	< 0.58	0.58	1.8	ug/L	4/4/00	SW846 8260B
Bromomethane	< 0.94	0.94	3.0	ug/L	4/4/00	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9	ug/L	4/4/00	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4	ug/L	4/4/00	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4	ug/L	4/4/00	SW846 8260B
Chloroethane	< 0.63	0.63	2.0	ug/L	4/4/00	SW846 8260B
Chloroform	< 0.41	0.41	1.3	ug/L	4/4/00	SW846 8260B
Chloromethane	< 0.44	0.44	1.4	ug/L	4/4/00	SW846 8260B
cis-1,2-Dichloroethene	69	0.46	1.5	ug/L	4/4/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.54	0.54	1.7	ug/L	4/4/00	SW846 8260B
Dibromomethane	< 0.60	0.60	1.9	ug/L	4/4/00	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9	ug/L	4/4/00	SW846 8260B
Diisopropyl ether	< 0.42	0.42	1.3	ug/L	4/4/00	SW846 8260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L	4/4/00	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L	4/4/00	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L	4/4/00	SW846 8260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L	4/4/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.44	0.44	1.4	ug/L	4/4/00	SW846 8260B
Methylene chloride	< 0.38	0.38	1.2	ug/L	4/4/00	SW846 8260B
n-Butylbenzene	< 0.39	0.39	1.2	ug/L	4/4/00	SW846 8260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L	4/4/00	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L	4/4/00	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L	4/4/00	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8	ug/L	4/4/00	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L	4/4/00	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6	ug/L	4/4/00	SW846 8260B
Tetrachloroethene	< 0.41	0.41	1.3	ug/L	4/4/00	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L	4/4/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.64	0.64	2.0	ug/L	4/4/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.26	0.26	0.83	ug/L	4/4/00	SW846 8260B
Trichloroethene	51	0.49	1.6	ug/L	4/4/00	SW846 8260B
Vinyl chloride	< 0.17	0.17	0.54	ug/L	4/4/00	SW846 8260B
Xylene, -o	< 0.54	0.54	1.7	ug/L	4/4/00	SW846 8260B
Xylenes, -m, -p	< 0.77	0.77	2.5	ug/L	4/4/00	SW846 8260B
4-Bromofluorobenzene	97			%Recov	4/4/00	SW846 8260B
Dibromofluoromethane	98			%Recov	4/4/00	SW846 8260B
Toluene-d8	101			%Recov	4/4/00	SW846 8260B

**Madison Office & Laboratory**  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



**Corporate Office & Laboratory**  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

**- Analytical Report -**

Project Name : GRAFTON  
Project Number :  
Field ID : P1749B  
Lab Sample Number : 901022-001  
Lab Project Number : 901022

Submitter : EARTH TECH INC  
Report Date : 4/11/00  
Collection Date : 3/23/00  
Matrix Type : WATER  
WI DNR LAB ID : 113172950

---

METHANE		Prep Method: MOD. 8015				Prep Date: 3/28/00			
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method	
Methane	< 10			10	ug/l	SUB	3/28/00	MOD. 8015	

All soil results are reported on a dry weight basis unless otherwise noted.

Units of %Recov(ery) denote surrogate spike recovery. All recoveries pass in-house control limits unless otherwise noted.



- Analytical Report -

Project Name : GRAFTON

Submitter : EARTH TECH INC

Project Number :

Report Date : 4/11/00

Field ID : TB032300

Collection Date : 3/23/00

Lab Sample Number : 901022-003

Matrix Type : BLANK

Lab Project Number : 901022

WI DNR LAB ID : 113172950

Volatile Organic Results

8260 VOLATILE LIST-Modified

Prep Method: SW846 5030B

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6		ug/L		4/4/00	SW846 8260B
1,1,1-Trichloroethane	< 0.53	0.53	1.7		ug/L		4/4/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2		ug/L		4/4/00	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5		ug/L		4/4/00	SW846 8260B
1,1-Dichloroethane	< 0.61	0.61	1.9		ug/L		4/4/00	SW846 8260B
1,1-Dichloroethene	< 0.47	0.47	1.5		ug/L		4/4/00	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		4/4/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8		ug/L		4/4/00	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3		ug/L		4/4/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1		ug/L		4/4/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5		ug/L		4/4/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		4/4/00	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		4/4/00	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		4/4/00	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		4/4/00	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		4/4/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4		ug/L		4/4/00	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		4/4/00	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		4/4/00	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		4/4/00	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		4/4/00	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		4/4/00	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		4/4/00	SW846 8260B
Benzene	< 0.44	0.44	1.4		ug/L		4/4/00	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		4/4/00	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		4/4/00	SW846 8260B
Bromodichloromethane	< 0.41	0.41	1.3		ug/L		4/4/00	SW846 8260B
Bromoform	< 0.58	0.58	1.8		ug/L		4/4/00	SW846 8260B
Bromomethane	< 0.94	0.94	3.0		ug/L		4/4/00	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9		ug/L		4/4/00	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4		ug/L		4/4/00	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4		ug/L		4/4/00	SW846 8260B
Chloroethane	< 0.63	0.63	2.0		ug/L		4/4/00	SW846 8260B
Chloroform	< 0.41	0.41	1.3		ug/L		4/4/00	SW846 8260B
Chloromethane	< 0.44	0.44	1.4		ug/L		4/4/00	SW846 8260B
cis-1,2-Dichloroethene	< 0.46	0.46	1.5		ug/L		4/4/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.54	0.54	1.7		ug/L		4/4/00	SW846 8260B



**- Analytical Report -**

**Project Name :** GRAFTON  
**Project Number :**  
**Field ID :** TB032300  
**Lab Sample Number :** 901022-003  
**Lab Project Number :** 901022

**Submitter :** EARTH TECH INC  
**Report Date :** 4/11/00  
**Collection Date :** 3/23/00  
**Matrix Type :** BLANK  
**WI DNR LAB ID :** 113172950

Dibromomethane	< 0.60	0.60	1.9	ug/L	4/4/00	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9	ug/L	4/4/00	SW846 8260B
Diisopropyl ether	< 0.42	0.42	1.3	ug/L	4/4/00	SW846 8260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L	4/4/00	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L	4/4/00	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L	4/4/00	SW846 8260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L	4/4/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.44	0.44	1.4	ug/L	4/4/00	SW846 8260B
Methylene chloride	< 0.38	0.38	1.2	ug/L	4/4/00	SW846 8260B
n-Butylbenzene	< 0.39	0.39	1.2	ug/L	4/4/00	SW846 8260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L	4/4/00	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L	4/4/00	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L	4/4/00	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8	ug/L	4/4/00	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L	4/4/00	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6	ug/L	4/4/00	SW846 8260B
Tetrachloroethene	< 0.41	0.41	1.3	ug/L	4/4/00	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L	4/4/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.64	0.64	2.0	ug/L	4/4/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.26	0.26	0.83	ug/L	4/4/00	SW846 8260B
Trichloroethene	< 0.49	0.49	1.6	ug/L	4/4/00	SW846 8260B
Vinyl chloride	< 0.17	0.17	0.54	ug/L	4/4/00	SW846 8260B
Xylene, -o	< 0.54	0.54	1.7	ug/L	4/4/00	SW846 8260B
Xylenes, -m, -p	< 0.77	0.77	2.5	ug/L	4/4/00	SW846 8260B
4-Bromofluorobenzene	98			%Recov	4/4/00	SW846 8260B
Dibromofluoromethane	96			%Recov	4/4/00	SW846 8260B
Toluene-d8	100			%Recov	4/4/00	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

Units of %Recov(ery) denote surrogate spike recovery. All recoveries pass in-house control limits unless otherwise noted.



### Organic Data Qualifier Sheet

- B Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory LOD. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
- C Elevated detection limit (see Sample Narrative).
- D Analyte value from diluted analysis.
- DL No surrogate recovery available due to sample dilution.
- E Analyte concentration exceeds calibration range (see Sample Narrative).
- F Repeated surrogate failure (see Sample Narrative).
- G Sample exhibits hydrocarbon pattern resembling gasoline.
- H(n) Analysis performed "n" days past holding time.
- J Qualitative evidence of analyte present: concentration detected is greater than the method detection limit but less than the reporting limit.
- K Detection Limit may be elevated due to the presence of an unrequested analyte (see Sample Narrative).
- L Detects in trip blank.
- M Methanol leakage.
- ND Not Detected.
- NR Not Required.
- P The relative percent difference for detected concentrations between the two GC columns was greater than 40 % difference.
- Q The analyte has been detected between the Limit of Detection (LOD) and limit of Quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
- U# Elevated LOD due to matrix interference.
- V Heavy hydrocarbon present.
- W Sample received with headspace.
- X See Sample Narrative
- Z See Sample Narrative



**Madison Office & Laboratory**  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



**Corporate Office & Laboratory**  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

---

SUB Assay was subcontracted to an approved lab.

SUB Assay was subcontracted to En Chem Green Bay WI Cert. #: 405132750.



# Robert E. Lee & Associates, Inc.

## Engineering, Surveying, Laboratory Services

2825 S. Webster Ave.  
P.O. Box 2100  
Green Bay, WI 54306-2100  
Phone: (920) 336-6338  
Fax: (920) 336-9141  
E-Mail: [rel@releeinc.com](mailto:rel@releeinc.com)

Milwaukee Area  
830 Armour Rd.  
Oconomowoc, WI 53066  
Phone: (262)569-8893 1-800-775-8893  
Fax: (262)569-7995  
Wisconsin Certification Number: 405043870

**ELIZABETH GRAF  
EN CHEM-MADISON  
525 SCIENCE DR  
MADISON WI 53711**

Phone: (608)232-3300  
Fax: (608)233-0502  
Client ID: L239  
Contact ID: 3414

Sample Information	Number of pages attached
--------------------	--------------------------

Report Date:	3/28/2000	Coversheet:	1
Chain Number:	76111	Analyst generated narratives:	0
Project No:	901022	Certificate of Analysis:	1
Project Name:	NONE	Flag description:	1
Receive Date:	3/24/2000	Invoice:	1
Sample Date:	3/23/2000	Chain of Custody:	1
		DNR Form:	0
		Sample non-compliance Report	0
		Subcontracted Lab Report:	0
		Miscellaneous:	0
		<b>Total pages:</b>	<b>5</b>

Attest:

Please visit our new Internet homepage at  
[www.releeinc.com](http://www.releeinc.com)

**Robert E. Lee & Associates, Inc**  
 Wisconsin Certification Number: 405043870  
 Certificate of Analysis Report

En Chem-Madison  
 525 Science Dr

Madison, WI 53711  
 Project Number: 901022  
 Project Name: NONE

Attn: Elizabeth Graf  
 Phone: (608)232-3300  
 Fax: (608)233-0502  
 Client ID: L239  
 Chain: 76111  
 Report Date: 3/28/2000

Method	Parameter Name	Result	Units	MDL	POI	Analysis	
Lab No	Collection Date	Sample ID					
<b>00REL004615</b>	<b>3/23/2000</b>	<b>901022-001</b>					
EPA-325.2	Chloride	9.7	mg/L	2.1	7.0	3/27/2000 CLS	
EPA-353.2	Nitrate	0.57	mg/L	0.069	0.23	3/25/2000 CLS	
<b>00REL004616</b>	<b>3/23/2000</b>	<b>901022-002</b>					
EPA-325.2	Chloride	4.8	mg/L	<b>13</b>	2.1	7.0	3/27/2000 CLS
EPA-353.2	Nitrate	2.4	mg/L	0.069	0.23	3/25/2000 CLS	

# Robert E. Lee & Associates, Inc.

Quality Control Report - Description of Flags

Flag	Section	Description
13	L	The reported result is less than the practical quantitation limit (PQL).



**- Analytical Report -**

Project Name : GRAFTON  
 Project Number :  
 Field ID : P8A  
 Lab Sample Number : 901035-003  
 Lab Project Number : 901035

Submitter : EARTH TECH INC  
 Report Date : 4/10/00  
 Collection Date : 3/23/00  
 Matrix Type : WATER  
 WI DNR LAB ID : 113172950

**Semivolatile Organic Results**

ETHANE		Prep Method: MOD. 8015			Prep Date: 3/28/00			
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	< 10			10	ug/l	SUB	3/28/00	MOD. 8015

ETHENE		Prep Method: MOD. 8015			Prep Date: 3/28/00			
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l	SUB	3/28/00	MOD. 8015

**Volatile Organic Results**

8260 VOLATILE LIST-Modified

Prep Method: SW846 5030B

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6		ug/L		4/4/00	SW846 8260B
1,1,1-Trichloroethane	12	0.53	1.7		ug/L		4/4/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2		ug/L		4/4/00	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5		ug/L		4/4/00	SW846 8260B
1,1-Dichloroethane	35	0.61	1.9		ug/L		4/4/00	SW846 8260B
1,1-Dichloroethene	3.9	0.47	1.5		ug/L		4/4/00	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		4/4/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8		ug/L		4/4/00	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3		ug/L		4/4/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1		ug/L		4/4/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5		ug/L		4/4/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		4/4/00	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		4/4/00	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		4/4/00	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		4/4/00	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		4/4/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4		ug/L		4/4/00	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		4/4/00	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		4/4/00	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		4/4/00	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		4/4/00	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		4/4/00	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		4/4/00	SW846 8260B
Benzene	< 0.44	0.44	1.4		ug/L		4/4/00	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		4/4/00	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		4/4/00	SW846 8260B



- Analytical Report -

Project Name : GRAFTON  
 Project Number :  
 Field ID : P8A  
 Lab Sample Number : 901035-003  
 Lab Project Number : 901035

Submitter : EARTH TECH INC  
 Report Date : 4/10/00  
 Collection Date : 3/23/00  
 Matrix Type : WATER  
 WI DNR LAB ID : 113172950

Bromodichloromethane	< 0.41	0.41	1.3	ug/L		4/4/00	SW846 8260B
Bromoform	< 0.58	0.58	1.8	ug/L		4/4/00	SW846 8260B
Bromomethane	< 0.94	0.94	3.0	ug/L		4/4/00	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9	ug/L		4/4/00	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4	ug/L		4/4/00	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4	ug/L		4/4/00	SW846 8260B
Chloroethane	< 0.63	0.63	2.0	ug/L		4/4/00	SW846 8260B
Chloroform	< 0.41	0.41	1.3	ug/L		4/4/00	SW846 8260B
Chloromethane	< 0.44	0.44	1.4	ug/L		4/4/00	SW846 8260B
cis-1,2-Dichloroethene	120	0.46	1.5	ug/L		4/4/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.54	0.54	1.7	ug/L		4/4/00	SW846 8260B
Dibromomethane	< 0.60	0.60	1.9	ug/L		4/4/00	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9	ug/L		4/4/00	SW846 8260B
Diisopropyl ether	< 0.42	0.42	1.3	ug/L		4/4/00	SW846 8260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L		4/4/00	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L		4/4/00	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L		4/4/00	SW846 8260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L		4/4/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.44	0.44	1.4	ug/L		4/4/00	SW846 8260B
Methylene chloride	< 0.38	0.38	1.2	ug/L		4/4/00	SW846 8260B
n-Butylbenzene	< 0.39	0.39	1.2	ug/L		4/4/00	SW846 8260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L		4/4/00	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L		4/4/00	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L		4/4/00	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8	ug/L		4/4/00	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L		4/4/00	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6	ug/L		4/4/00	SW846 8260B
Tetrachloroethene	0.53	0.41	1.3	ug/L	Q	4/4/00	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L		4/4/00	SW846 8260B
trans-1,2-Dichloroethene	1.6	0.64	2.0	ug/L	Q	4/4/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.26	0.26	0.83	ug/L		4/4/00	SW846 8260B
Trichloroethene	69	0.49	1.6	ug/L		4/4/00	SW846 8260B
Vinyl chloride	37	0.17	0.54	ug/L		4/4/00	SW846 8260B
Xylene, -o	< 0.54	0.54	1.7	ug/L		4/4/00	SW846 8260B
Xylenes, -m, -p	< 0.77	0.77	2.5	ug/L		4/4/00	SW846 8260B
4-Bromofluorobenzene	89			%Recov		4/4/00	SW846 8260B
Dibromofluoromethane	97			%Recov		4/4/00	SW846 8260B
Toluene-d8	103			%Recov		4/4/00	SW846 8260B



**Madison Office & Laboratory**  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



**Corporate Office & Laboratory**  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

**- Analytical Report -**

**Project Name :** GRAFTON  
**Project Number :**  
**Field ID :** P8A  
**Lab Sample Number :** 901035-003  
**Lab Project Number :** 901035

**Submitter :** EARTH TECH INC  
**Report Date :** 4/10/00  
**Collection Date :** 3/23/00  
**Matrix Type :** WATER  
**WI DNR LAB ID :** 113172950

---

METHANE		Prep Method: MOD. 8015			Prep Date: 3/28/00			
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	23			10	ug/l	SUB	3/28/00	MOD. 8015

All soil results are reported on a dry weight basis unless otherwise noted.

Units of %Recov(ery) denote surrogate spike recovery. All recoveries pass in-house control limits unless otherwise noted.



**- Analytical Report -**

Project Name : GRAFTON  
 Project Number :  
 Field ID : P4B  
 Lab Sample Number : 901035-004  
 Lab Project Number : 901035

Submitter : EARTH TECH INC  
 Report Date : 4/10/00  
 Collection Date : 3/23/00  
 Matrix Type : WATER  
 WI DNR LAB ID : 113172950

**Semivolatile Organic Results**

ETHANE  
 Prep Method: MOD. 8015      Prep Date: 3/28/00

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	< 10			10	ug/l	SUB	3/28/00	MOD. 8015

ETHENE  
 Prep Method: MOD. 8015      Prep Date: 3/28/00

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l	SUB	3/28/00	MOD. 8015

**Volatile Organic Results**

8260 VOLATILE LIST-Modified

Prep Method: SW846 5030B

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6		ug/L		4/4/00	SW846 8260B
1,1,1-Trichloroethane	< 0.53	0.53	1.7		ug/L		4/4/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2		ug/L		4/4/00	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5		ug/L		4/4/00	SW846 8260B
1,1-Dichloroethane	< 0.61	0.61	1.9		ug/L		4/4/00	SW846 8260B
1,1-Dichloroethene	< 0.47	0.47	1.5		ug/L		4/4/00	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		4/4/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8		ug/L		4/4/00	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3		ug/L		4/4/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1		ug/L		4/4/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5		ug/L		4/4/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		4/4/00	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		4/4/00	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		4/4/00	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		4/4/00	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		4/4/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4		ug/L		4/4/00	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		4/4/00	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		4/4/00	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		4/4/00	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		4/4/00	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		4/4/00	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		4/4/00	SW846 8260B
Benzene	< 0.44	0.44	1.4		ug/L		4/4/00	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		4/4/00	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		4/4/00	SW846 8260B



**- Analytical Report -**

**Project Name : GRAFTON**

**Submitter : EARTH TECH INC**

**Project Number :**

**Report Date : 4/10/00**

**Field ID : P4B**

**Collection Date : 3/23/00**

**Lab Sample Number : 901035-004**

**Matrix Type : WATER**

**Lab Project Number : 901035**

**WI DNR LAB ID : 113172950**

Bromodichloromethane	< 0.41	0.41	1.3	ug/L		4/4/00	SW846 8260B
Bromoform	< 0.58	0.58	1.8	ug/L		4/4/00	SW846 8260B
Bromomethane	< 0.94	0.94	3.0	ug/L		4/4/00	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9	ug/L		4/4/00	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4	ug/L		4/4/00	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4	ug/L		4/4/00	SW846 8260B
Chloroethane	< 0.63	0.63	2.0	ug/L		4/4/00	SW846 8260B
Chloroform	< 0.41	0.41	1.3	ug/L		4/4/00	SW846 8260B
Chloromethane	< 0.44	0.44	1.4	ug/L		4/4/00	SW846 8260B
cis-1,2-Dichloroethene	0.66	0.46	1.5	ug/L	Q	4/4/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.54	0.54	1.7	ug/L		4/4/00	SW846 8260B
Dibromomethane	< 0.60	0.60	1.9	ug/L		4/4/00	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9	ug/L		4/4/00	SW846 8260B
Diisopropyl ether	< 0.42	0.42	1.3	ug/L		4/4/00	SW846 8260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L		4/4/00	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L		4/4/00	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L		4/4/00	SW846 8260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L		4/4/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.44	0.44	1.4	ug/L		4/4/00	SW846 8260B
Methylene chloride	< 0.38	0.38	1.2	ug/L		4/4/00	SW846 8260B
n-Butylbenzene	< 0.39	0.39	1.2	ug/L		4/4/00	SW846 8260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L		4/4/00	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L		4/4/00	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L		4/4/00	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8	ug/L		4/4/00	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L		4/4/00	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6	ug/L		4/4/00	SW846 8260B
Tetrachloroethene	< 0.41	0.41	1.3	ug/L		4/4/00	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L		4/4/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.64	0.64	2.0	ug/L		4/4/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.26	0.26	0.83	ug/L		4/4/00	SW846 8260B
Trichloroethene	1.8	0.49	1.6	ug/L		4/4/00	SW846 8260B
Vinyl chloride	< 0.17	0.17	0.54	ug/L		4/4/00	SW846 8260B
Xylene, -o	< 0.54	0.54	1.7	ug/L		4/4/00	SW846 8260B
Xylenes, -m, -p	< 0.77	0.77	2.5	ug/L		4/4/00	SW846 8260B
4-Bromofluorobenzene	87			%Recov		4/4/00	SW846 8260B
Dibromofluoromethane	97			%Recov		4/4/00	SW846 8260B
Toluene-d8	102			%Recov		4/4/00	SW846 8260B

Madison Office & Laboratory  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
-888-5-ENCHEM



Corporate Office & Laboratory  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

**- Analytical Report -**

Project Name : GRAFTON  
Project Number :  
Field ID : P4B  
Lab Sample Number : 901035-004  
Lab Project Number : 901035

Submitter : EARTH TECH INC  
Report Date : 4/10/00  
Collection Date : 3/23/00  
Matrix Type : WATER  
WI DNR LAB ID : 113172950

**METHANE**

Prep Method: MOD. 8015

Prep Date: 3/28/00

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	< 10			10	ug/l	SUB	3/28/00	MOD. 8015

All soil results are reported on a dry weight basis unless otherwise noted.

Units of %Recov(ery) denote surrogate spike recovery. All recoveries pass in-house control limits unless otherwise noted.



**- Analytical Report -**

Project Name : GRAFTON

Submitter : EARTH TECH INC

Project Number :

Report Date : 4/10/00

Field ID : P3B

Collection Date : 3/23/00

Lab Sample Number : 901035-005

Matrix Type : WATER

Lab Project Number : 901035

WI DNR LAB ID : 113172950

**Semivolatile Organic Results**

ETHANE Prep Method: MOD. 8015      Prep Date: 3/28/00

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	< 10			10	ug/l	SUB	3/28/00	MOD. 8015

ETHENE Prep Method: MOD. 8015      Prep Date: 3/28/00

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l	SUB	3/28/00	MOD. 8015

**Volatile Organic Results**

8260 VOLATILE LIST-Modified

Prep Method: SW846 5030B

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6		ug/L		4/4/00	SW846 8260B
1,1,1-Trichloroethane	< 0.53	0.53	1.7		ug/L		4/4/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2		ug/L		4/4/00	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5		ug/L		4/4/00	SW846 8260B
1,1-Dichloroethane	< 0.61	0.61	1.9		ug/L		4/4/00	SW846 8260B
1,1-Dichloroethene	< 0.47	0.47	1.5		ug/L		4/4/00	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		4/4/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8		ug/L		4/4/00	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3		ug/L		4/4/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1		ug/L		4/4/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5		ug/L		4/4/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		4/4/00	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		4/4/00	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		4/4/00	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		4/4/00	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		4/4/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4		ug/L		4/4/00	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		4/4/00	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		4/4/00	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		4/4/00	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		4/4/00	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		4/4/00	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		4/4/00	SW846 8260B
Benzene	< 0.44	0.44	1.4		ug/L		4/4/00	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		4/4/00	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		4/4/00	SW846 8260B



- Analytical Report -

Project Name : GRAFTON

Submitter : EARTH TECH INC

Project Number :

Report Date : 4/10/00

Field ID : P3B

Collection Date : 3/23/00

Lab Sample Number : 901035-005

Matrix Type : WATER

Lab Project Number : 901035

WI DNR LAB ID : 113172950

Bromodichloromethane	< 0.41	0.41	1.3	ug/L		4/4/00	SW846 8260B
Bromoform	< 0.58	0.58	1.8	ug/L		4/4/00	SW846 8260B
Bromomethane	< 0.94	0.94	3.0	ug/L		4/4/00	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9	ug/L		4/4/00	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4	ug/L		4/4/00	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4	ug/L		4/4/00	SW846 8260B
Chloroethane	< 0.63	0.63	2.0	ug/L		4/4/00	SW846 8260B
Chloroform	< 0.41	0.41	1.3	ug/L		4/4/00	SW846 8260B
Chloromethane	< 0.44	0.44	1.4	ug/L		4/4/00	SW846 8260B
cis-1,2-Dichloroethene	0.48	0.46	1.5	ug/L	Q	4/4/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.54	0.54	1.7	ug/L		4/4/00	SW846 8260B
Dibromomethane	< 0.60	0.60	1.9	ug/L		4/4/00	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9	ug/L		4/4/00	SW846 8260B
Diisopropyl ether	< 0.42	0.42	1.3	ug/L		4/4/00	SW846 8260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L		4/4/00	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L		4/4/00	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L		4/4/00	SW846 8260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L		4/4/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.44	0.44	1.4	ug/L		4/4/00	SW846 8260B
Methylene chloride	< 0.38	0.38	1.2	ug/L		4/4/00	SW846 8260B
n-Butylbenzene	< 0.39	0.39	1.2	ug/L		4/4/00	SW846 8260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L		4/4/00	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L		4/4/00	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L		4/4/00	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8	ug/L		4/4/00	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L		4/4/00	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6	ug/L		4/4/00	SW846 8260B
Tetrachloroethene	1.3	0.41	1.3	ug/L		4/4/00	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L		4/4/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.64	0.64	2.0	ug/L		4/4/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.26	0.26	0.83	ug/L		4/4/00	SW846 8260B
Trichloroethene	32	0.49	1.6	ug/L		4/4/00	SW846 8260B
Vinyl chloride	< 0.17	0.17	0.54	ug/L		4/4/00	SW846 8260B
Xylene, -o	< 0.54	0.54	1.7	ug/L		4/4/00	SW846 8260B
Xylenes, -m, -p	< 0.77	0.77	2.5	ug/L		4/4/00	SW846 8260B
4-Bromofluorobenzene	87			%Recov		4/4/00	SW846 8260B
Dibromofluoromethane	100			%Recov		4/4/00	SW846 8260B
Toluene-d8	101			%Recov		4/4/00	SW846 8260B



**Madison Office & Laboratory**  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



**Corporate Office & Laboratory**  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

**- Analytical Report -**

**Project Name :** GRAFTON  
**Project Number :**  
**Field ID :** P3B  
**Lab Sample Number :** 901035-005  
**Lab Project Number :** 901035

**Submitter :** EARTH TECH INC  
**Report Date :** 4/10/00  
**Collection Date :** 3/23/00  
**Matrix Type :** WATER  
**WI DNR LAB ID :** 113172950

METHANE		Prep Method: MOD. 8015			Prep Date: 3/28/00			
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	< 10			10	ug/l	SUB	3/28/00	MOD. 8015

All soil results are reported on a dry weight basis unless otherwise noted.

Units of %Recov(ery) denote surrogate spike recovery. All recoveries pass in-house control limits unless otherwise noted.



- Analytical Report -

Project Name : GRAFTON  
Project Number :  
Field ID : TB032300  
Lab Sample Number : 901035-006  
Lab Project Number : 901035

Submitter : EARTH TECH INC  
Report Date : 4/10/00  
Collection Date : 3/23/00  
Matrix Type : BLANK  
WI DNR LAB ID : 113172950

Volatile Organic Results

8260 VOLATILE LIST-Modified

Prep Method: SW846 5030B

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6		ug/L		4/4/00	SW846 8260B
1,1,1-Trichloroethane	< 0.53	0.53	1.7		ug/L		4/4/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2		ug/L		4/4/00	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5		ug/L		4/4/00	SW846 8260B
1,1-Dichloroethane	< 0.61	0.61	1.9		ug/L		4/4/00	SW846 8260B
1,1-Dichloroethene	< 0.47	0.47	1.5		ug/L		4/4/00	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		4/4/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8		ug/L		4/4/00	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3		ug/L		4/4/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1		ug/L		4/4/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5		ug/L		4/4/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		4/4/00	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		4/4/00	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		4/4/00	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		4/4/00	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		4/4/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4		ug/L		4/4/00	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		4/4/00	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		4/4/00	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		4/4/00	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		4/4/00	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		4/4/00	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		4/4/00	SW846 8260B
Benzene	< 0.44	0.44	1.4		ug/L		4/4/00	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		4/4/00	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		4/4/00	SW846 8260B
Bromodichloromethane	< 0.41	0.41	1.3		ug/L		4/4/00	SW846 8260B
Bromoform	< 0.58	0.58	1.8		ug/L		4/4/00	SW846 8260B
Bromomethane	< 0.94	0.94	3.0		ug/L		4/4/00	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9		ug/L		4/4/00	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4		ug/L		4/4/00	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4		ug/L		4/4/00	SW846 8260B
Chloroethane	< 0.63	0.63	2.0		ug/L		4/4/00	SW846 8260B
Chloroform	< 0.41	0.41	1.3		ug/L		4/4/00	SW846 8260B
Chloromethane	< 0.44	0.44	1.4		ug/L		4/4/00	SW846 8260B
cis-1,2-Dichloroethene	< 0.46	0.46	1.5		ug/L		4/4/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.54	0.54	1.7		ug/L		4/4/00	SW846 8260B

**Madison Office & Laboratory**  
 525 Science Drive  
 Madison, WI 53711  
 608-232-3300 • Fax: 608-233-0502  
 1-888-5-ENCHEM



**Corporate Office & Laboratory**  
 1795 Industrial Drive  
 Green Bay, WI 54302  
 920-469-2436 • Fax: 920-469-8827  
 1-800-7-ENCHEM

**- Analytical Report -**

**Project Name : GRAFTON**

**Submitter : EARTH TECH INC**

**Project Number :**

**Report Date : 4/10/00**

**Field ID : TB032300**

**Collection Date : 3/23/00**

**Lab Sample Number : 901035-006**

**Matrix Type : BLANK**

**Lab Project Number : 901035**

**WI DNR LAB ID : 113172950**

Dibromomethane	< 0.60	0.60	1.9	ug/L	4/4/00	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9	ug/L	4/4/00	SW846 8260B
Diisopropyl ether	< 0.42	0.42	1.3	ug/L	4/4/00	SW846 8260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L	4/4/00	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L	4/4/00	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L	4/4/00	SW846 8260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L	4/4/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.44	0.44	1.4	ug/L	4/4/00	SW846 8260B
Methylene chloride	< 0.38	0.38	1.2	ug/L	4/4/00	SW846 8260B
n-Butylbenzene	< 0.39	0.39	1.2	ug/L	4/4/00	SW846 8260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L	4/4/00	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L	4/4/00	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L	4/4/00	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8	ug/L	4/4/00	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L	4/4/00	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6	ug/L	4/4/00	SW846 8260B
Tetrachloroethene	< 0.41	0.41	1.3	ug/L	4/4/00	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L	4/4/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.64	0.64	2.0	ug/L	4/4/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.26	0.26	0.83	ug/L	4/4/00	SW846 8260B
Trichloroethene	< 0.49	0.49	1.6	ug/L	4/4/00	SW846 8260B
Vinyl chloride	< 0.17	0.17	0.54	ug/L	4/4/00	SW846 8260B
Xylene, -o	< 0.54	0.54	1.7	ug/L	4/4/00	SW846 8260B
Xylenes, -m, -p	< 0.77	0.77	2.5	ug/L	4/4/00	SW846 8260B
4-Bromofluorobenzene	88			%Recov	4/4/00	SW846 8260B
Dibromofluoromethane	95			%Recov	4/4/00	SW846 8260B
Toluene-d8	101			%Recov	4/4/00	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

Units of %Recov(ery) denote surrogate spike recovery. All recoveries pass in-house control limits unless otherwise noted.

Madison Office & Laboratory  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



Corporate Office & Laboratory  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

- Analytical Report -

Project Name : GRAFTON

Submitter : EARTH TECH INC

Project Number :

Report Date : 4/10/00

Station ID : P8A

Collection Date : 3/23/00

Lab Sample Number : 901035-003

Matrix Type : WATER

Lab Project Number : 901035

WI DNR LAB ID : 113172950

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Arsenic - Dissolved	< 6.8	6.8	22		ug/L		4/3/00	SW846 6010B	SW846 6010B
Barium - Dissolved	120	0.12	0.38		ug/L		4/3/00	SW846 6010B	SW846 6010B
Cadmium - Dissolved	< 0.50	0.50	1.6		ug/L		4/3/00	SW846 6010B	SW846 6010B
Chromium - Dissolved	0.59	0.53	1.7		ug/L	QA(0.62)	4/3/00	SW846 6010B	SW846 6010B
Lead - Dissolved	< 2.8	2.8	8.9		ug/L		4/3/00	SW846 6010B	SW846 6010B
Mercury - Dissolved	< 0.042	0.042	0.13		ug/L		3/31/00	SW846 7470A	SW846 7470A
Selenium - Dissolved	< 8.7	8.7	28		ug/L		4/3/00	SW846 6010B	SW846 6010B
Silver - Dissolved	< 0.60	0.60	1.9		ug/L		4/3/00	SW846 6010B	SW846 6010B

**Madison Office & Laboratory**  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



**Corporate Office & Laboratory**  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

**- Analytical Report -**

**Project Name : GRAFTON**  
**Project Number :**  
**Station ID : P4B**  
**Lab Sample Number : 901035-004**  
**Lab Project Number : 901035**

**Submitter : EARTH TECH INC**  
**Report Date : 4/10/00**  
**Collection Date : 3/23/00**  
**Matrix Type : WATER**  
**WI DNR LAB ID : 113172950**

**Inorganic Results**

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Arsenic - Dissolved	< 6.8	6.8	22		ug/L		4/3/00	SW846 6010B	SW846 6010B
Barium - Dissolved	45	0.12	0.38		ug/L		4/3/00	SW846 6010B	SW846 6010B
Cadmium - Dissolved	< 0.50	0.50	1.6		ug/L		4/3/00	SW846 6010B	SW846 6010B
Chromium - Dissolved	0.95	0.53	1.7		ug/L	QA(0.62)	4/3/00	SW846 6010B	SW846 6010B
Lead - Dissolved	< 2.8	2.8	8.9		ug/L		4/3/00	SW846 6010B	SW846 6010B
Mercury - Dissolved	< 0.042	0.042	0.13		ug/L		3/31/00	SW846 7470A	SW846 7470A
Selenium - Dissolved	< 8.7	8.7	28		ug/L		4/3/00	SW846 6010B	SW846 6010B
Silver - Dissolved	< 0.60	0.60	1.9		ug/L		4/3/00	SW846 6010B	SW846 6010B

Madison Office & Laboratory  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
-888-5-ENCHEM



Corporate Office & Laboratory  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

- Analytical Report -

Project Name : GRAFTON  
Project Number :  
Station ID : P3B  
Lab Sample Number : 901035-005  
Lab Project Number : 901035

Submitter : EARTH TECH INC  
Report Date : 4/10/00  
Collection Date : 3/23/00  
Matrix Type : WATER  
WI DNR LAB ID : 113172950

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Arsenic - Dissolved	< 6.8	6.8	22		ug/L		4/3/00	SW846 6010B	SW846 6010B
Barium - Dissolved	45	0.12	0.38		ug/L		4/3/00	SW846 6010B	SW846 6010B
Cadmium - Dissolved	< 0.50	0.50	1.6		ug/L		4/3/00	SW846 6010B	SW846 6010B
Chromium - Dissolved	0.56	0.53	1.7		ug/L	QA(0.62)	4/3/00	SW846 6010B	SW846 6010B
Lead - Dissolved	< 2.8	2.8	8.9		ug/L		4/3/00	SW846 6010B	SW846 6010B
Mercury - Dissolved	< 0.042	0.042	0.13		ug/L		3/31/00	SW846 7470A	SW846 7470A
Selenium - Dissolved	< 8.7	8.7	28		ug/L		4/3/00	SW846 6010B	SW846 6010B
Silver - Dissolved	< 0.60	0.60	1.9		ug/L		4/3/00	SW846 6010B	SW846 6010B



**Madison Office & Laboratory**  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



**Corporate Office & Laboratory**  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

---

SUB

Assay was subcontracted to an approved lab.

SUB

Assay was subcontracted to En Chem Green Bay WI Cert. #: 405132750.



### Inorganic Data Qualifier Sheet

- A Analyte is detected in the method blank. Method blank criteria is evaluated to the laboratory LOD. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
- AI Due to the matrix of this sample the alternate isotope was used for analysis.
- B Analyte is detected in the method blank at "x" concentration. Method blank criteria is evaluated to the laboratory LOD. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
- BB BOD result is estimated due to the BOD blank exceeding the allowable oxygen depletion.
- BD BOD duplicate precision not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
- BI BOD result is estimated due to insufficient oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
- BL BOD laboratory control sample not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
- BX BOD result is estimated due to complete oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
- DA Dissolved analyte or filtered analyte greater than total analyte; analyses passed QC based on precision criteria.
- DF Dissolved analyte or filtered analyte greater than total analyte; analyses failed QC based on precision criteria.
- E Estimated concentration due to matrix interferences. During the metals analysis using the inductively coupled plasma (ICP), the serial dilution failed to meet the established control limits of 0-10% and the sample concentrations greater than 50 times the EQL. The result was flagged with the E qualifier to indicate that a physical interference was observed.
- ED Elevated detection limit due to matrix effects.
- G Unable to determine precision due to matrix interference.
- H(n) Analysis performed "n" days past holding time (See Sample Narrative).
- K Sample received unpreserved. Sample was either preserved at the time of receipt or at the time of sample preparation.
- LV Elevated detection limit due to low sample volume.
- MS Either the matrix spike or matrix spike duplicate was outside of the acceptable control limits. All other supporting QC was within the acceptable control limits.
- N Spiked sample recovery not within control limits; post-digestion spike recovery accepted.

**Madison Office & Laboratory**  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



**Corporate Office & Laboratory**  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

- NP Digested and post-digested spike recoveries fail accuracy control limits.
- NR Not required.
- Q The analyte has been detected between the Limit of Detection (LOD) and Limit of Quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
- Sub Assay was subcontracted to an approved lab.
- UN Unable to preserve sample due to matrix.
- X See sample narrative.
- \* Duplicate analyses not within control limits.



# Robert E. Lee & Associates, Inc.

## Engineering, Surveying, Laboratory Services

2825 S. Webster Ave.  
P.O. Box 2100  
Green Bay, WI 54306-2100  
Phone: (920) 336-6338  
Fax: (920) 336-9141  
E-Mail: rel@releeinc.com

Milwaukee Area  
830 Armour Rd.  
Oconomowoc, WI 53066  
Phone: (262)569-8893 1-800-775-8893  
Fax: (262)569-7995  
Wisconsin Certification Number: 405043870

**ELIZABETH GRAF  
EN CHEM-MADISON  
525 SCIENCE DR  
MADISON WI 53711**

Phone: (608)232-3300  
Fax: (608)233-0502  
Client ID: L239  
Contact ID: 3414

Sample Information	Number of pages attached
Report Date: 3/28/2000	Coversheet: 1
Chain Number: 76112	Analyst generated narratives: 0
Project No: 901035	Certificate of Analysis: 1
Project Name: NONE	Flag description: 0
Receive Date: 3/24/2000	Invoice: 1
Sample Date: 3/24/2000	Chain of Custody: 1
	DNR Form: 0
	Sample non-compliance Report: 0
	Subcontracted Lab Report: 0
	Miscellaneous: 0
	<b>Total pages: 4</b>

Attest:

Please visit our new Internet homepage at  
[www.releeinc.com](http://www.releeinc.com)

**Robert E. Lee & Associates, Inc**  
 Wisconsin Certification Number: 405043870  
 Certificate of Analysis Report

En Chem-Madison  
 525 Science Dr

Madison, WI 53711  
 Project Number: 901035  
 Project Name: NONE

Attn: Elizabeth Graf  
 Phone: (608)232-3300  
 Fax: (608)233-0502  
 Client ID: L239  
 Chain: 76112  
 Report Date: 3/28/2000

Method	Parameter	Unit	Result	Units	Flag	MDL	PC	Analysis Date	Analysis
Lab No	Collect Date	Sample ID							
<b>00REL004617</b>	<b>3/24/2000</b>	<b>901035-001</b>							
EPA-325.2	Chloride		67	mg/L		2.1	7.0	3/27/2000	CLS
EPA-353.2	Nitrate		3.3	mg/L		0.069	0.23	3/25/2000	CLS
<b>00REL004618</b>	<b>3/24/2000</b>	<b>901035-002</b>							
EPA-325.2	Chloride		68	mg/L		2.1	7.0	3/27/2000	CLS
EPA-353.2	Nitrate		3.4	mg/L		0.069	0.23	3/25/2000	CLS
<b>00REL004619</b>	<b>3/24/2000</b>	<b>901035-003</b>							
EPA-325.2	Chloride		48	mg/L		2.1	7.0	3/27/2000	CLS
EPA-353.2	Nitrate		0.56	mg/L		0.069	0.23	3/25/2000	CLS
<b>00REL004620</b>	<b>3/24/2000</b>	<b>901035-004</b>							
EPA-325.2	Chloride		40	mg/L		2.1	7.0	3/27/2000	CLS
EPA-353.2	Nitrate		5.4	mg/L		0.069	0.23	3/25/2000	CLS
<b>00REL004621</b>	<b>3/23/2000</b>	<b>901035-005</b>							
EPA-325.2	Chloride		21	mg/L		2.1	7.0	3/27/2000	CLS
EPA-353.2	Nitrate		5.0	mg/L		0.069	0.23	3/25/2000	CLS



**- Analytical Report -**

Project Name : GRAFTON

Submitter : EARTH TECH INC

Project Number :

Report Date : 4/10/00

Field ID : P1788

Collection Date : 3/23/00

Lab Sample Number : 901035-001

Matrix Type : WATER

Lab Project Number : 901035

WI DNR LAB ID : 113172950

**Semivolatile Organic Results**

ETHANE		Prep Method: MOD. 8015			Prep Date: 3/28/00			
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	< 10			10	ug/l	SUB	3/28/00	MOD. 8015

ETHENE		Prep Method: MOD. 8015			Prep Date: 3/28/00			
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l	SUB	3/28/00	MOD. 8015

**Volatile Organic Results**

8260 VOLATILE LIST-Modified

Prep Method: SW846 5030B

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6		ug/L		4/4/00	SW846 8260B
1,1,1-Trichloroethane	0.86	0.53	1.7		ug/L	Q	4/4/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2		ug/L		4/4/00	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5		ug/L		4/4/00	SW846 8260B
1,1-Dichloroethane	< 0.61	0.61	1.9		ug/L		4/4/00	SW846 8260B
1,1-Dichloroethene	< 0.47	0.47	1.5		ug/L		4/4/00	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		4/4/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8		ug/L		4/4/00	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3		ug/L		4/4/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1		ug/L		4/4/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5		ug/L		4/4/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		4/4/00	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		4/4/00	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		4/4/00	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		4/4/00	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		4/4/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4		ug/L		4/4/00	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		4/4/00	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		4/4/00	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		4/4/00	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		4/4/00	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		4/4/00	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		4/4/00	SW846 8260B
Benzene	< 0.44	0.44	1.4		ug/L		4/4/00	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		4/4/00	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		4/4/00	SW846 8260B





**- Analytical Report -**

**Project Name : GRAFTON**

**Submitter : EARTH TECH INC**

**Project Number :**

**Report Date : 4/10/00**

**Field ID : P1788**

**Collection Date : 3/23/00**

**Lab Sample Number : 901035-001**

**Matrix Type : WATER**

**Lab Project Number : 901035**

**WI DNR LAB ID : 113172950**

Bromodichloromethane	< 0.41	0.41	1.3	ug/L		4/4/00	SW846 8260B
Bromoform	< 0.58	0.58	1.8	ug/L		4/4/00	SW846 8260B
Bromomethane	< 0.94	0.94	3.0	ug/L		4/4/00	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9	ug/L		4/4/00	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4	ug/L		4/4/00	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4	ug/L		4/4/00	SW846 8260B
Chloroethane	< 0.63	0.63	2.0	ug/L		4/4/00	SW846 8260B
Chloroform	< 0.41	0.41	1.3	ug/L		4/4/00	SW846 8260B
Chloromethane	< 0.44	0.44	1.4	ug/L		4/4/00	SW846 8260B
cis-1,2-Dichloroethene	< 0.46	0.46	1.5	ug/L		4/4/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.54	0.54	1.7	ug/L		4/4/00	SW846 8260B
Dibromomethane	< 0.60	0.60	1.9	ug/L		4/4/00	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9	ug/L		4/4/00	SW846 8260B
Diisopropyl ether	< 0.42	0.42	1.3	ug/L		4/4/00	SW846 8260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L		4/4/00	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L		4/4/00	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L		4/4/00	SW846 8260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L		4/4/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.44	0.44	1.4	ug/L		4/4/00	SW846 8260B
Methylene chloride	< 0.38	0.38	1.2	ug/L		4/4/00	SW846 8260B
n-Butylbenzene	< 0.39	0.39	1.2	ug/L		4/4/00	SW846 8260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L		4/4/00	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L		4/4/00	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L		4/4/00	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8	ug/L		4/4/00	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L		4/4/00	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6	ug/L		4/4/00	SW846 8260B
Tetrachloroethene	< 0.41	0.41	1.3	ug/L		4/4/00	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L		4/4/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.64	0.64	2.0	ug/L		4/4/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.26	0.26	0.83	ug/L		4/4/00	SW846 8260B
Trichloroethene	1.2	0.49	1.6	ug/L	Q	4/4/00	SW846 8260B
Vinyl chloride	< 0.17	0.17	0.54	ug/L		4/4/00	SW846 8260B
Xylene, -o	< 0.54	0.54	1.7	ug/L		4/4/00	SW846 8260B
Xylenes, -m, -p	< 0.77	0.77	2.5	ug/L		4/4/00	SW846 8260B
4-Bromofluorobenzene	87			%Recov		4/4/00	SW846 8260B
Dibromofluoromethane	98			%Recov		4/4/00	SW846 8260B
Toluene-d8	101			%Recov		4/4/00	SW846 8260B

**Madison Office & Laboratory**  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



**Corporate Office & Laboratory**  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

**- Analytical Report -**

**Project Name : GRAFTON**

**Submitter : EARTH TECH INC**

**Project Number :**

**Report Date : 4/10/00**

**Field ID : P1788**

**Collection Date : 3/23/00**

**Lab Sample Number : 901035-001**

**Matrix Type : WATER**

**Lab Project Number : 901035**

**WI DNR LAB ID : 113172950**

---

METHANE		Prep Method: MOD. 8015			Prep Date: 3/28/00			
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	< 10			10	ug/l	SUB	3/28/00	MOD. 8015

---

All soil results are reported on a dry weight basis unless otherwise noted.

Units of %Recov(ery) denote surrogate spike recovery. All recoveries pass in-house control limits unless otherwise noted.



**- Analytical Report -**

Project Name : GRAFTON

Submitter : EARTH TECH INC

Project Number :

Report Date : 4/10/00

Field ID : P1788D

Collection Date : 3/23/00

Lab Sample Number : 901035-002

Matrix Type : WATER

Lab Project Number : 901035

WI DNR LAB ID : 113172950

**Semivolatile Organic Results**

ETHANE		Prep Method: MOD. 8015			Prep Date: 3/28/00			
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	< 10			10	ug/l	SUB	3/28/00	MOD. 8015

ETHENE		Prep Method: MOD. 8015			Prep Date: 3/28/00			
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l	SUB	3/28/00	MOD. 8015

**Volatile Organic Results**

8260 VOLATILE LIST-Modified

Prep Method: SW846 5030B

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6		ug/L		4/4/00	SW846 8260B
1,1,1-Trichloroethane	< 0.53	0.53	1.7		ug/L		4/4/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2		ug/L		4/4/00	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5		ug/L		4/4/00	SW846 8260B
1,1-Dichloroethane	< 0.61	0.61	1.9		ug/L		4/4/00	SW846 8260B
1,1-Dichloroethene	< 0.47	0.47	1.5		ug/L		4/4/00	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		4/4/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8		ug/L		4/4/00	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3		ug/L		4/4/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1		ug/L		4/4/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5		ug/L		4/4/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		4/4/00	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		4/4/00	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		4/4/00	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		4/4/00	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		4/4/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4		ug/L		4/4/00	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		4/4/00	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		4/4/00	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		4/4/00	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		4/4/00	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		4/4/00	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		4/4/00	SW846 8260B
Benzene	< 0.44	0.44	1.4		ug/L		4/4/00	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		4/4/00	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		4/4/00	SW846 8260B



**- Analytical Report -**

Project Name : GRAFTON

Submitter : EARTH TECH INC

Project Number :

Report Date : 4/10/00

Field ID : P1788D

Collection Date : 3/23/00

Lab Sample Number : 901035-002

Matrix Type : WATER

Lab Project Number : 901035

WI DNR LAB ID : 113172950

Bromodichloromethane	< 0.41	0.41	1.3	ug/L	4/4/00	SW846 8260B
Bromoform	< 0.58	0.58	1.8	ug/L	4/4/00	SW846 8260B
Bromomethane	< 0.94	0.94	3.0	ug/L	4/4/00	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9	ug/L	4/4/00	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4	ug/L	4/4/00	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4	ug/L	4/4/00	SW846 8260B
Chloroethane	< 0.63	0.63	2.0	ug/L	4/4/00	SW846 8260B
Chloroform	< 0.41	0.41	1.3	ug/L	4/4/00	SW846 8260B
Chloromethane	< 0.44	0.44	1.4	ug/L	4/4/00	SW846 8260B
cis-1,2-Dichloroethene	< 0.46	0.46	1.5	ug/L	4/4/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.54	0.54	1.7	ug/L	4/4/00	SW846 8260B
Dibromomethane	< 0.60	0.60	1.9	ug/L	4/4/00	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9	ug/L	4/4/00	SW846 8260B
Diisopropyl ether	< 0.42	0.42	1.3	ug/L	4/4/00	SW846 8260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L	4/4/00	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L	4/4/00	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L	4/4/00	SW846 8260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L	4/4/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.44	0.44	1.4	ug/L	4/4/00	SW846 8260B
Methylene chloride	< 0.38	0.38	1.2	ug/L	4/4/00	SW846 8260B
n-Butylbenzene	< 0.39	0.39	1.2	ug/L	4/4/00	SW846 8260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L	4/4/00	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L	4/4/00	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L	4/4/00	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8	ug/L	4/4/00	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L	4/4/00	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6	ug/L	4/4/00	SW846 8260B
Tetrachloroethene	< 0.41	0.41	1.3	ug/L	4/4/00	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L	4/4/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.64	0.64	2.0	ug/L	4/4/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.26	0.26	0.83	ug/L	4/4/00	SW846 8260B
Trichloroethene	1.1	0.49	1.6	ug/L	Q 4/4/00	SW846 8260B
Vinyl chloride	< 0.17	0.17	0.54	ug/L	4/4/00	SW846 8260B
Xylene, -o	< 0.54	0.54	1.7	ug/L	4/4/00	SW846 8260B
Xylenes, -m, -p	< 0.77	0.77	2.5	ug/L	4/4/00	SW846 8260B
4-Bromofluorobenzene	89			%Recov	4/4/00	SW846 8260B
Dibromofluoromethane	98			%Recov	4/4/00	SW846 8260B
Toluene-d8	102			%Recov	4/4/00	SW846 8260B

**Madison Office & Laboratory**  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



**Corporate Office & Laboratory**  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

**- Analytical Report -**

**Project Name : GRAFTON**

**Submitter : EARTH TECH INC**

**Project Number :**

**Report Date : 4/10/00**

**Field ID : P1788D**

**Collection Date : 3/23/00**

**Lab Sample Number : 901035-002**

**Matrix Type : WATER**

**Lab Project Number : 901035**

**WI DNR LAB ID : 113172950**

**METHANE**

**Prep Method: MOD. 8015**

**Prep Date: 3/28/00**

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	< 10			10	ug/l	SUB	3/28/00	MOD. 8015

**All soil results are reported on a dry weight basis unless otherwise noted.**

**Units of %Recov(ery) denote surrogate spike recovery. All recoveries pass in-house control limits unless otherwise noted.**



- Analytical Report -

Project Name : GRAFTON  
Project Number :  
Field ID : RB03 2400  
Lab Sample Number : 901036-001  
Lab Project Number : 901036

Submitter : EARTH TECH INC  
Report Date : 4/10/00  
Collection Date : 3/24/00  
Matrix Type : BLANK  
WI DNR LAB ID : 113172950

Semivolatile Organic Results

ETHANE		Prep Method: MOD. 8015			Prep Date: 3/29/00			
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	< 10			10	ug/l	SUB	3/29/00	MOD. 8015

ETHENE		Prep Method: MOD. 8015			Prep Date: 3/29/00			
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l	SUB	3/29/00	MOD. 8015

Volatile Organic Results

8260 VOLATILE LIST-Modified

Prep Method: SW846 5030B

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6		ug/L		4/4/00	SW846 8260B
1,1,1-Trichloroethane	< 0.53	0.53	1.7		ug/L		4/4/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2		ug/L		4/4/00	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5		ug/L		4/4/00	SW846 8260B
1,1-Dichloroethane	< 0.61	0.61	1.9		ug/L		4/4/00	SW846 8260B
1,1-Dichloroethene	< 0.47	0.47	1.5		ug/L		4/4/00	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		4/4/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8		ug/L		4/4/00	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3		ug/L		4/4/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1		ug/L		4/4/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5		ug/L		4/4/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		4/4/00	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		4/4/00	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		4/4/00	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		4/4/00	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		4/4/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4		ug/L		4/4/00	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		4/4/00	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		4/4/00	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		4/4/00	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		4/4/00	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		4/4/00	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		4/4/00	SW846 8260B
Benzene	< 0.44	0.44	1.4		ug/L		4/4/00	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		4/4/00	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		4/4/00	SW846 8260B





**- Analytical Report -**

**Project Name : GRAFTON**  
**Project Number :**  
**Field ID : RB03 2400**  
**Lab Sample Number : 901036-001**  
**Lab Project Number : 901036**

**Submitter : EARTH TECH INC**  
**Report Date : 4/10/00**  
**Collection Date : 3/24/00**  
**Matrix Type : BLANK**  
**WI DNR LAB ID : 113172950**

Bromodichloromethane	3.1	0.41	1.3	ug/L	4/4/00	SW846 8260B
Bromoform	< 0.58	0.58	1.8	ug/L	4/4/00	SW846 8260B
Bromomethane	< 0.94	0.94	3.0	ug/L	4/4/00	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9	ug/L	4/4/00	SW846 8260B
Chlorobenzene	0.54	0.43	1.4	ug/L	Q 4/4/00	SW846 8260B
Chlorodibromomethane	1.6	0.43	1.4	ug/L	4/4/00	SW846 8260B
Chloroethane	< 0.63	0.63	2.0	ug/L	4/4/00	SW846 8260B
Chloroform	5.7	0.41	1.3	ug/L	4/4/00	SW846 8260B
Chloromethane	< 0.44	0.44	1.4	ug/L	4/4/00	SW846 8260B
cis-1,2-Dichloroethene	< 0.46	0.46	1.5	ug/L	4/4/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.54	0.54	1.7	ug/L	4/4/00	SW846 8260B
Dibromomethane	< 0.60	0.60	1.9	ug/L	4/4/00	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9	ug/L	4/4/00	SW846 8260B
Diisopropyl ether	< 0.42	0.42	1.3	ug/L	4/4/00	SW846 8260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L	4/4/00	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L	4/4/00	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L	4/4/00	SW846 8260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L	4/4/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.44	0.44	1.4	ug/L	4/4/00	SW846 8260B
Methylene chloride	< 0.38	0.38	1.2	ug/L	4/4/00	SW846 8260B
n-Butylbenzene	< 0.39	0.39	1.2	ug/L	4/4/00	SW846 8260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L	4/4/00	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L	4/4/00	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L	4/4/00	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8	ug/L	4/4/00	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L	4/4/00	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6	ug/L	4/4/00	SW846 8260B
Tetrachloroethene	< 0.41	0.41	1.3	ug/L	4/4/00	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L	4/4/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.64	0.64	2.0	ug/L	4/4/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.26	0.26	0.83	ug/L	4/4/00	SW846 8260B
Trichloroethene	2.0	0.49	1.6	ug/L	4/4/00	SW846 8260B
Vinyl chloride	< 0.17	0.17	0.54	ug/L	4/4/00	SW846 8260B
Xylene, -o	< 0.54	0.54	1.7	ug/L	4/4/00	SW846 8260B
Xylenes, -m, -p	< 0.77	0.77	2.5	ug/L	4/4/00	SW846 8260B
4-Bromofluorobenzene	88			%Recov	4/4/00	SW846 8260B
Dibromofluoromethane	98			%Recov	4/4/00	SW846 8260B
Toluene-d8	103			%Recov	4/4/00	SW846 8260B



Madison Office & Laboratory  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



Corporate Office & Laboratory  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

**- Analytical Report -**

Project Name : GRAFTON  
Project Number :  
Field ID : RB03 2400  
Lab Sample Number : 901036-001  
Lab Project Number : 901036

Submitter : EARTH TECH INC  
Report Date : 4/10/00  
Collection Date : 3/24/00  
Matrix Type : BLANK  
WI DNR LAB ID : 113172950

---

METHANE		Prep Method: MOD. 8015			Prep Date: 3/29/00			
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	< 10			10	ug/l	SUB	3/29/00	MOD. 8015

---

All soil results are reported on a dry weight basis unless otherwise noted.

Units of %Recov(ery) denote surrogate spike recovery. All recoveries pass in-house control limits unless otherwise noted.



- Analytical Report -

Project Name : GRAFTON

Submitter : EARTH TECH INC

Project Number :

Report Date : 4/10/00

Field ID : ~~PAB~~ P2B B/L 4/12/2000

Collection Date : 3/24/00

Lab Sample Number : 901036-002

Matrix Type : WATER

Lab Project Number : 901036

WI DNR LAB ID : 113172950

Semivolatile Organic Results

ETHANE Prep Method: MOD. 8015 Prep Date: 3/29/00

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	24			10	ug/l	SUB	3/29/00	MOD. 8015

ETHENE Prep Method: MOD. 8015 Prep Date: 3/29/00

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l	SUB	3/29/00	MOD. 8015

Volatile Organic Results

8260 VOLATILE LIST-Modified

Prep Method: SW846 5030B

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6		ug/L		4/4/00	SW846 8260B
1,1,1-Trichloroethane	4.8	0.53	1.7		ug/L		4/4/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2		ug/L		4/4/00	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5		ug/L		4/4/00	SW846 8260B
1,1-Dichloroethane	26	0.61	1.9		ug/L		4/4/00	SW846 8260B
1,1-Dichloroethene	2.9	0.47	1.5		ug/L		4/4/00	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		4/4/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8		ug/L		4/4/00	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3		ug/L		4/4/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1		ug/L		4/4/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5		ug/L		4/4/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		4/4/00	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		4/4/00	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		4/4/00	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		4/4/00	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		4/4/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4		ug/L		4/4/00	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		4/4/00	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		4/4/00	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		4/4/00	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		4/4/00	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		4/4/00	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		4/4/00	SW846 8260B
Benzene	< 0.44	0.44	1.4		ug/L		4/4/00	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		4/4/00	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		4/4/00	SW846 8260B



- Analytical Report -

Project Name : GRAFTON

Submitter : EARTH TECH INC

Project Number :

Report Date : 4/10/00

Field ID : P4B

Collection Date : 3/24/00

Lab Sample Number : 901036-002

Matrix Type : WATER

Lab Project Number : 901036

WI DNR LAB ID : 113172950

Bromodichloromethane	< 0.41	0.41	1.3	ug/L		4/4/00	SW846 8260B
Bromoform	< 0.58	0.58	1.8	ug/L		4/4/00	SW846 8260B
Bromomethane	< 0.94	0.94	3.0	ug/L		4/4/00	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9	ug/L		4/4/00	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4	ug/L		4/4/00	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4	ug/L		4/4/00	SW846 8260B
Chloroethane	15	0.63	2.0	ug/L		4/4/00	SW846 8260B
Chloroform	< 0.41	0.41	1.3	ug/L		4/4/00	SW846 8260B
Chloromethane	< 0.44	0.44	1.4	ug/L		4/4/00	SW846 8260B
cis-1,2-Dichloroethene	470	2.3	7.3	ug/L	D	4/4/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.54	0.54	1.7	ug/L		4/4/00	SW846 8260B
Dibromomethane	< 0.60	0.60	1.9	ug/L		4/4/00	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9	ug/L		4/4/00	SW846 8260B
Diisopropyl ether	< 0.42	0.42	1.3	ug/L		4/4/00	SW846 8260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L		4/4/00	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L		4/4/00	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L		4/4/00	SW846 8260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L		4/4/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.44	0.44	1.4	ug/L		4/4/00	SW846 8260B
Methylene chloride	< 0.38	0.38	1.2	ug/L		4/4/00	SW846 8260B
n-Butylbenzene	< 0.39	0.39	1.2	ug/L		4/4/00	SW846 8260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L		4/4/00	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L		4/4/00	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L		4/4/00	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8	ug/L		4/4/00	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L		4/4/00	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6	ug/L		4/4/00	SW846 8260B
Tetrachloroethene	< 0.41	0.41	1.3	ug/L		4/4/00	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L		4/4/00	SW846 8260B
trans-1,2-Dichloroethene	12	0.64	2.0	ug/L		4/4/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.26	0.26	0.83	ug/L		4/4/00	SW846 8260B
Trichloroethene	170	2.4	7.6	ug/L	D	4/4/00	SW846 8260B
Vinyl chloride	340	0.85	2.7	ug/L	D	4/4/00	SW846 8260B
Xylene, -o	< 0.54	0.54	1.7	ug/L		4/4/00	SW846 8260B
Xylenes, -m, -p	< 0.77	0.77	2.5	ug/L		4/4/00	SW846 8260B
4-Bromofluorobenzene	87			%Recov		4/4/00	SW846 8260B
Dibromofluoromethane	99			%Recov		4/4/00	SW846 8260B
Toluene-d8	102			%Recov		4/4/00	SW846 8260B

**Madison Office & Laboratory**  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



**Corporate Office & Laboratory**  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

**- Analytical Report -**

**Project Name :** GRAFTON  
**Project Number :**  
**Field ID :** P4B  
**Lab Sample Number :** 901036-002  
**Lab Project Number :** 901036

**Submitter :** EARTH TECH INC  
**Report Date :** 4/10/00  
**Collection Date :** 3/24/00  
**Matrix Type :** WATER  
**WI DNR LAB ID :** 113172950

---

METHANE		Prep Method: MOD. 8015			Prep Date: 3/29/00			
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	270			100	ug/l	SUB	3/29/00	MOD. 8015

---

All soil results are reported on a dry weight basis unless otherwise noted.

Units of %Recov(ery) denote surrogate spike recovery. All recoveries pass in-house control limits unless otherwise noted.



**- Analytical Report -**

Project Name : GRAFTON  
 Project Number : *P26 A D52 2/15/2001*  
 Field ID : *PAA P26 BQ6 4/12/2000*  
 Lab Sample Number : 901036-003  
 Lab Project Number : 901036

Submitter : EARTH TECH INC  
 Report Date : 4/10/00  
 Collection Date : 3/24/00  
 Matrix Type : WATER  
 WI DNR LAB ID : 113172950

**Semivolatile Organic Results**

Prep Method: MOD. 8015      Prep Date: 3/29/00

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
ETHANE	< 10			10	ug/l	SUB	3/29/00	MOD. 8015

Prep Method: MOD. 8015      Prep Date: 3/29/00

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
ETHENE	< 10			10	ug/l	SUB	3/29/00	MOD. 8015

**Volatile Organic Results**

8260 VOLATILE LIST-Modified

Prep Method: SW846 5030B

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6		ug/L		4/4/00	SW846 8260B
1,1,1-Trichloroethane	1.2	0.53	1.7		ug/L	Q	4/4/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2		ug/L		4/4/00	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5		ug/L		4/4/00	SW846 8260B
1,1-Dichloroethane	15	0.61	1.9		ug/L		4/4/00	SW846 8260B
1,1-Dichloroethene	< 0.47	0.47	1.5		ug/L		4/4/00	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		4/4/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8		ug/L		4/4/00	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3		ug/L		4/4/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1		ug/L		4/4/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5		ug/L		4/4/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		4/4/00	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		4/4/00	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		4/4/00	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		4/4/00	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		4/4/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4		ug/L		4/4/00	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		4/4/00	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		4/4/00	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		4/4/00	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		4/4/00	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		4/4/00	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		4/4/00	SW846 8260B
Benzene	< 0.44	0.44	1.4		ug/L		4/4/00	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		4/4/00	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		4/4/00	SW846 8260B



**- Analytical Report -**

**Project Name : GRAFTON**

**Submitter : EARTH TECH INC**

**Project Number :**

**Report Date : 4/10/00**

**Field ID : P4A**

**Collection Date : 3/24/00**

**Lab Sample Number : 901036-003**

**Matrix Type : WATER**

**Lab Project Number : 901036**

**WI DNR LAB ID : 113172950**

Bromodichloromethane	< 0.41	0.41	1.3	ug/L	4/4/00	SW846 8260B
Bromoform	< 0.58	0.58	1.8	ug/L	4/4/00	SW846 8260B
Bromomethane	< 0.94	0.94	3.0	ug/L	4/4/00	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9	ug/L	4/4/00	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4	ug/L	4/4/00	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4	ug/L	4/4/00	SW846 8260B
Chloroethane	< 0.63	0.63	2.0	ug/L	4/4/00	SW846 8260B
Chloroform	< 0.41	0.41	1.3	ug/L	4/4/00	SW846 8260B
Chloromethane	< 0.44	0.44	1.4	ug/L	4/4/00	SW846 8260B
cis-1,2-Dichloroethene	26	0.46	1.5	ug/L	4/4/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.54	0.54	1.7	ug/L	4/4/00	SW846 8260B
Dibromomethane	< 0.60	0.60	1.9	ug/L	4/4/00	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9	ug/L	4/4/00	SW846 8260B
Diisopropyl ether	< 0.42	0.42	1.3	ug/L	4/4/00	SW846 8260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L	4/4/00	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L	4/4/00	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L	4/4/00	SW846 8260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L	4/4/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.44	0.44	1.4	ug/L	4/4/00	SW846 8260B
Methylene chloride	< 0.38	0.38	1.2	ug/L	4/4/00	SW846 8260B
n-Butylbenzene	< 0.39	0.39	1.2	ug/L	4/4/00	SW846 8260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L	4/4/00	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L	4/4/00	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L	4/4/00	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8	ug/L	4/4/00	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L	4/4/00	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6	ug/L	4/4/00	SW846 8260B
Tetrachloroethene	< 0.41	0.41	1.3	ug/L	4/4/00	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L	4/4/00	SW846 8260B
trans-1,2-Dichloroethene	2.6	0.64	2.0	ug/L	4/4/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.26	0.26	0.83	ug/L	4/4/00	SW846 8260B
Trichloroethene	32	0.49	1.6	ug/L	4/4/00	SW846 8260B
Vinyl chloride	< 0.17	0.17	0.54	ug/L	4/4/00	SW846 8260B
Xylene, -o	< 0.54	0.54	1.7	ug/L	4/4/00	SW846 8260B
Xylenes, -m, -p	< 0.77	0.77	2.5	ug/L	4/4/00	SW846 8260B
4-Bromofluorobenzene	87			%Recov	4/4/00	SW846 8260B
Dibromofluoromethane	100			%Recov	4/4/00	SW846 8260B
Toluene-d8	103			%Recov	4/4/00	SW846 8260B

Madison Office & Laboratory  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



Corporate Office & Laboratory  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

**- Analytical Report -**

Project Name : GRAFTON  
Project Number :  
Field ID : P4A  
Lab Sample Number : 901036-003  
Lab Project Number : 901036

Submitter : EARTH TECH INC  
Report Date : 4/10/00  
Collection Date : 3/24/00  
Matrix Type : WATER  
WI DNR LAB ID : 113172950

METHANE

Prep Method: MOD. 8015

Prep Date: 3/29/00

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	< 10			10	ug/l	SUB	3/29/00	MOD. 8015

All soil results are reported on a dry weight basis unless otherwise noted.

Units of %Recov(ery) denote surrogate spike recovery. All recoveries pass in-house control limits unless otherwise noted.





**- Analytical Report -**

**Project Name :** GRAFTON  
**Project Number :**  
**Field ID :** LW1  
**Lab Sample Number :** 901036-004  
**Lab Project Number :** 901036

**Submitter :** EARTH TECH INC  
**Report Date :** 4/10/00  
**Collection Date :** 3/24/00  
**Matrix Type :** WATER  
**WI DNR LAB ID :** 113172950

**Semivolatile Organic Results**

**Prep Method: MOD. 8015      Prep Date: 3/29/00**

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	< 10			10	ug/l	SUB	3/29/00	MOD. 8015

**Prep Method: MOD. 8015      Prep Date: 3/29/00**

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l	SUB	3/29/00	MOD. 8015

**Volatile Organic Results**

**8260 VOLATILE LIST-Modified**

**Prep Method: SW846 5030B**

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6		ug/L		4/4/00	SW846 8260B
1,1,1-Trichloroethane	< 0.53	0.53	1.7		ug/L		4/4/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2		ug/L		4/4/00	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5		ug/L		4/4/00	SW846 8260B
1,1-Dichloroethane	8.6	0.61	1.9		ug/L		4/4/00	SW846 8260B
1,1-Dichloroethene	1.6	0.47	1.5		ug/L		4/4/00	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		4/4/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8		ug/L		4/4/00	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3		ug/L		4/4/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1		ug/L		4/4/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5		ug/L		4/4/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		4/4/00	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		4/4/00	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		4/4/00	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		4/4/00	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		4/4/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4		ug/L		4/4/00	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		4/4/00	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		4/4/00	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		4/4/00	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		4/4/00	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		4/4/00	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		4/4/00	SW846 8260B
Benzene	< 0.44	0.44	1.4		ug/L		4/4/00	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		4/4/00	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		4/4/00	SW846 8260B



- Analytical Report -

Project Name : GRAFTON  
 Project Number :  
 Field ID : LW1  
 Lab Sample Number : 901036-004  
 Lab Project Number : 901036

Submitter : EARTH TECH INC  
 Report Date : 4/10/00  
 Collection Date : 3/24/00  
 Matrix Type : WATER  
 WI DNR LAB ID : 113172950

Bromodichloromethane	< 0.41	0.41	1.3	ug/L	4/4/00	SW846 8260B
Bromoform	< 0.58	0.58	1.8	ug/L	4/4/00	SW846 8260B
Bromomethane	< 0.94	0.94	3.0	ug/L	4/4/00	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9	ug/L	4/4/00	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4	ug/L	4/4/00	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4	ug/L	4/4/00	SW846 8260B
Chloroethane	2.0	0.63	2.0	ug/L	4/4/00	SW846 8260B
Chloroform	< 0.41	0.41	1.3	ug/L	4/4/00	SW846 8260B
Chloromethane	< 0.44	0.44	1.4	ug/L	4/4/00	SW846 8260B
cis-1,2-Dichloroethene	110	0.46	1.5	ug/L	4/4/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.54	0.54	1.7	ug/L	4/4/00	SW846 8260B
Dibromomethane	< 0.60	0.60	1.9	ug/L	4/4/00	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9	ug/L	4/4/00	SW846 8260B
Diisopropyl ether	< 0.42	0.42	1.3	ug/L	4/4/00	SW846 8260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L	4/4/00	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L	4/4/00	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L	4/4/00	SW846 8260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L	4/4/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.44	0.44	1.4	ug/L	4/4/00	SW846 8260B
Methylene chloride	< 0.38	0.38	1.2	ug/L	4/4/00	SW846 8260B
n-Butylbenzene	< 0.39	0.39	1.2	ug/L	4/4/00	SW846 8260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L	4/4/00	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L	4/4/00	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L	4/4/00	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8	ug/L	4/4/00	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L	4/4/00	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6	ug/L	4/4/00	SW846 8260B
Tetrachloroethene	6.5	0.41	1.3	ug/L	4/4/00	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L	4/4/00	SW846 8260B
trans-1,2-Dichloroethene	4.9	0.64	2.0	ug/L	4/4/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.26	0.26	0.83	ug/L	4/4/00	SW846 8260B
Trichloroethene	29	0.49	1.6	ug/L	4/4/00	SW846 8260B
Vinyl chloride	120	0.17	0.54	ug/L	4/4/00	SW846 8260B
Xylene, -o	< 0.54	0.54	1.7	ug/L	4/4/00	SW846 8260B
Xylenes, -m, -p	< 0.77	0.77	2.5	ug/L	4/4/00	SW846 8260B
4-Bromofluorobenzene	87			%Recov	4/4/00	SW846 8260B
Dibromofluoromethane	98			%Recov	4/4/00	SW846 8260B
Toluene-d8	103			%Recov	4/4/00	SW846 8260B

**Madison Office & Laboratory**  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



**Corporate Office & Laboratory**  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

**- Analytical Report -**

**Project Name :** GRAFTON  
**Project Number :**  
**Field ID :** LW1  
**Lab Sample Number :** 901036-004  
**Lab Project Number :** 901036

**Submitter :** EARTH TECH INC  
**Report Date :** 4/10/00  
**Collection Date :** 3/24/00  
**Matrix Type :** WATER  
**WI DNR LAB ID :** 113172950

---

METHANE		Prep Method: MOD. 8015			Prep Date: 3/29/00			
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	73			20	ug/l	SUB	3/29/00	MOD. 8015

---

All soil results are reported on a dry weight basis unless otherwise noted.

Units of %Recov(ery) denote surrogate spike recovery. All recoveries pass in-house control limits unless otherwise noted.



**- Analytical Report -**

Project Name : GRAFTON  
 Project Number :  
 Field ID : LW2  
 Lab Sample Number : 901036-005  
 Lab Project Number : 901036

Submitter : EARTH TECH INC  
 Report Date : 4/10/00  
 Collection Date : 3/24/00  
 Matrix Type : WATER  
 WI DNR LAB ID : 113172950

**Semivolatile Organic Results**

Prep Method: MOD. 8015      Prep Date: 3/29/00

ETHANE	Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
	Ethane	< 10			10	ug/l	SUB	3/29/00	MOD. 8015

Prep Method: MOD. 8015      Prep Date: 3/29/00

ETHENE	Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
	Ethene	< 10			10	ug/l	SUB	3/29/00	MOD. 8015

**Volatile Organic Results**

8260 VOLATILE LIST-Modified

Prep Method: SW846 5030B

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6		ug/L		4/4/00	SW846 8260B
1,1,1-Trichloroethane	1.5	0.53	1.7		ug/L	Q	4/4/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2		ug/L		4/4/00	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5		ug/L		4/4/00	SW846 8260B
1,1-Dichloroethane	80	0.61	1.9		ug/L		4/4/00	SW846 8260B
1,1-Dichloroethene	< 0.47	0.47	1.5		ug/L		4/4/00	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		4/4/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8		ug/L		4/4/00	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3		ug/L		4/4/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1		ug/L		4/4/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5		ug/L		4/4/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		4/4/00	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		4/4/00	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		4/4/00	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		4/4/00	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		4/4/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4		ug/L		4/4/00	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		4/4/00	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		4/4/00	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		4/4/00	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		4/4/00	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		4/4/00	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		4/4/00	SW846 8260B
Benzene	< 0.44	0.44	1.4		ug/L		4/4/00	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		4/4/00	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		4/4/00	SW846 8260B



**- Analytical Report -**

**Project Name : GRAFTON**

**Submitter : EARTH TECH INC**

**Project Number :**

**Report Date : 4/10/00**

**Field ID : LW2**

**Collection Date : 3/24/00**

**Lab Sample Number : 901036-005**

**Matrix Type : WATER**

**Lab Project Number : 901036**

**WI DNR LAB ID : 113172950**

Bromodichloromethane	< 0.41	0.41	1.3	ug/L	4/4/00	SW846 8260B
Bromoform	< 0.58	0.58	1.8	ug/L	4/4/00	SW846 8260B
Bromomethane	< 0.94	0.94	3.0	ug/L	4/4/00	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9	ug/L	4/4/00	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4	ug/L	4/4/00	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4	ug/L	4/4/00	SW846 8260B
Chloroethane	< 0.63	0.63	2.0	ug/L	4/4/00	SW846 8260B
Chloroform	< 0.41	0.41	1.3	ug/L	4/4/00	SW846 8260B
Chloromethane	< 0.44	0.44	1.4	ug/L	4/4/00	SW846 8260B
cis-1,2-Dichloroethene	31	0.46	1.5	ug/L	4/4/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.54	0.54	1.7	ug/L	4/4/00	SW846 8260B
Dibromomethane	< 0.60	0.60	1.9	ug/L	4/4/00	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9	ug/L	4/4/00	SW846 8260B
Diisopropyl ether	< 0.42	0.42	1.3	ug/L	4/4/00	SW846 8260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L	4/4/00	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L	4/4/00	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L	4/4/00	SW846 8260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L	4/4/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.44	0.44	1.4	ug/L	4/4/00	SW846 8260B
Methylene chloride	< 0.38	0.38	1.2	ug/L	4/4/00	SW846 8260B
n-Butylbenzene	< 0.39	0.39	1.2	ug/L	4/4/00	SW846 8260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L	4/4/00	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L	4/4/00	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L	4/4/00	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8	ug/L	4/4/00	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L	4/4/00	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6	ug/L	4/4/00	SW846 8260B
Tetrachloroethene	0.75	0.41	1.3	ug/L	Q 4/4/00	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L	4/4/00	SW846 8260B
trans-1,2-Dichloroethene	2.3	0.64	2.0	ug/L	4/4/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.26	0.26	0.83	ug/L	4/4/00	SW846 8260B
Trichloroethene	20	0.49	1.6	ug/L	4/4/00	SW846 8260B
Vinyl chloride	6.4	0.17	0.54	ug/L	4/4/00	SW846 8260B
Xylene, -o	< 0.54	0.54	1.7	ug/L	4/4/00	SW846 8260B
Xylenes, -m, -p	< 0.77	0.77	2.5	ug/L	4/4/00	SW846 8260B
4-Bromofluorobenzene	87			%Recov	4/4/00	SW846 8260B
Dibromofluoromethane	99			%Recov	4/4/00	SW846 8260B
Toluene-d8	100			%Recov	4/4/00	SW846 8260B

Madison Office & Laboratory  
525 Science Drive  
Madison, WI 53711  
608-232-3300 • Fax: 608-233-0502  
1-888-5-ENCHEM



Corporate Office & Laboratory  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

**- Analytical Report -**

Project Name : GRAFTON  
Project Number :  
Field ID : LW2  
Lab Sample Number : 901036-005  
Lab Project Number : 901036

Submitter : EARTH TECH INC  
Report Date : 4/10/00  
Collection Date : 3/24/00  
Matrix Type : WATER  
WI DNR LAB ID : 113172950

---

METHANE		Prep Method: MOD. 8015				Prep Date: 3/29/00			
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method	
Methane	12			10	ug/l	SUB	3/29/00	MOD. 8015	

---

All soil results are reported on a dry weight basis unless otherwise noted.

Units of %Recov(ery) denote surrogate spike recovery. All recoveries pass in-house control limits unless otherwise noted.





**- Analytical Report -**

**Project Name :** GRAFTON  
**Project Number :**  
**Field ID :** TB032400  
**Lab Sample Number :** 901036-006  
**Lab Project Number :** 901036

**Submitter :** EARTH TECH INC  
**Report Date :** 4/10/00  
**Collection Date :** 3/24/00  
**Matrix Type :** BLANK  
**WI DNR LAB ID :** 113172950

**Volatile Organic Results**

Prep Method: SW846 5030B

8260 VOLATILE LIST-Modified

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6		ug/L		4/4/00	SW846 8260B
1,1,1-Trichloroethane	< 0.53	0.53	1.7		ug/L		4/4/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2		ug/L		4/4/00	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5		ug/L		4/4/00	SW846 8260B
1,1-Dichloroethane	< 0.61	0.61	1.9		ug/L		4/4/00	SW846 8260B
1,1-Dichloroethene	< 0.47	0.47	1.5		ug/L		4/4/00	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		4/4/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8		ug/L		4/4/00	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3		ug/L		4/4/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1		ug/L		4/4/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5		ug/L		4/4/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		4/4/00	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		4/4/00	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		4/4/00	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		4/4/00	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		4/4/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4		ug/L		4/4/00	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		4/4/00	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		4/4/00	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		4/4/00	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		4/4/00	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		4/4/00	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		4/4/00	SW846 8260B
Benzene	< 0.44	0.44	1.4		ug/L		4/4/00	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		4/4/00	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		4/4/00	SW846 8260B
Bromodichloromethane	< 0.41	0.41	1.3		ug/L		4/4/00	SW846 8260B
Bromoform	< 0.58	0.58	1.8		ug/L		4/4/00	SW846 8260B
Bromomethane	< 0.94	0.94	3.0		ug/L		4/4/00	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9		ug/L		4/4/00	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4		ug/L		4/4/00	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4		ug/L		4/4/00	SW846 8260B
Chloroethane	< 0.63	0.63	2.0		ug/L		4/4/00	SW846 8260B
Chloroform	< 0.41	0.41	1.3		ug/L		4/4/00	SW846 8260B
Chloromethane	< 0.44	0.44	1.4		ug/L		4/4/00	SW846 8260B
cis-1,2-Dichloroethene	< 0.46	0.46	1.5		ug/L		4/4/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.54	0.54	1.7		ug/L		4/4/00	SW846 8260B





**- Analytical Report -**

Project Name : GRAFTON  
 Project Number :  
 Field ID : TB032400  
 Lab Sample Number : 901036-006  
 Lab Project Number : 901036

Submitter : EARTH TECH INC  
 Report Date : 4/10/00  
 Collection Date : 3/24/00  
 Matrix Type : BLANK  
 WI DNR LAB ID : 113172950

Dibromomethane	< 0.60	0.60	1.9	ug/L	4/4/00	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9	ug/L	4/4/00	SW846 8260B
Diisopropyl ether	< 0.42	0.42	1.3	ug/L	4/4/00	SW846 8260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L	4/4/00	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L	4/4/00	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L	4/4/00	SW846 8260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L	4/4/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.44	0.44	1.4	ug/L	4/4/00	SW846 8260B
Methylene chloride	< 0.38	0.38	1.2	ug/L	4/4/00	SW846 8260B
n-Butylbenzene	< 0.39	0.39	1.2	ug/L	4/4/00	SW846 8260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L	4/4/00	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L	4/4/00	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L	4/4/00	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8	ug/L	4/4/00	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L	4/4/00	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6	ug/L	4/4/00	SW846 8260B
Tetrachloroethene	< 0.41	0.41	1.3	ug/L	4/4/00	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L	4/4/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.64	0.64	2.0	ug/L	4/4/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.26	0.26	0.83	ug/L	4/4/00	SW846 8260B
Trichloroethene	< 0.49	0.49	1.6	ug/L	4/4/00	SW846 8260B
Vinyl chloride	< 0.17	0.17	0.54	ug/L	4/4/00	SW846 8260B
Xylene, -o	< 0.54	0.54	1.7	ug/L	4/4/00	SW846 8260B
Xylenes, -m, -p	< 0.77	0.77	2.5	ug/L	4/4/00	SW846 8260B
4-Bromofluorobenzene	89			%Recov	4/4/00	SW846 8260B
Dibromofluoromethane	96			%Recov	4/4/00	SW846 8260B
Toluene-d8	102			%Recov	4/4/00	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

Units of %Recov(ery) denote surrogate spike recovery. All recoveries pass in-house control limits unless otherwise noted.

**GROUNDWATER MONITORING DATA**

**JUNE, 2000**



1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436  
800-7-ENCHEM  
FAX: 920-469-8827

## - Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Client: EARTH TECH INC

WI DNR LAB ID : 405132750

Sample No.	Field ID	Collection Date	Sample No.	Field ID	Collection Date
802856-001	P3B	6/19/00			
802856-002	P3A (DUP OF P3B)	6/19/00			
802856-003	P2A	6/19/00			
802856-004	P2B	6/19/00			
802856-005	P4B	6/19/00			
802856-006	FIELD BLANK	6/19/00			

Please visit our Internet homepage at: [www.encheminc.com](http://www.encheminc.com)

The "Q" flag is present when a parameter has been detected below the LOQ. This indicates the results are qualified due to the uncertainty of the parameter concentration between the LOD and the LOQ.

Soil VOC detects are corrected for the total solids, unless otherwise noted.

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. Reported results shall not be reproduced, except in full, without the written approval of the lab. The sample results relate only to the analytes of interest tested.

Approval Signature

Date

Lab#:	TestGroupID:	Comment:
802856-	SPECVOA-W	Methylene chloride is present in the laboratory environment. Detects should be considered suspect.
	M-CD-D	A - Analyte is detected in the method blank at a concentration of 0.14 ug/L.
	M-AG-D	A - Analyte is detected in the method blank at a concentration of 0.10 ug/L.
	M-SE-D	A - Analyte is detected in the method blank at a concentration of 1.00 ug/L.
	M-BA-D	A - Analyte is detected in the method blank at a concentration of 0.26 ug/L.
	M-AS-D	A - Analyte is detected in the method blank at a concentration of 0.42 ug/L.
	M-CR-D	A - Analyte is detected in the method blank at a concentration of 0.19 ug/L.
802856-001 P3B	W-ALK-W	A - Analyte present in blank at 13.5 mg/l.
802856-006 FIELD BLANK	W-ALK-W	A - Analyte present in blank at 13.5 mg/l.



1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436  
800-7-ENCHEM  
FAX: 920-469-8827

## - Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number :

Client: EARTH TECH INC

WI DNR LAB ID : 405132750

Sample No.	Field ID	Collection Date	Sample No.	Field ID	Collection Date
802906-001	PW1716LR	6/21/00			
802906-002	PW717HC	6/21/00			
802906-003	PW1530LR	6/21/00			
802906-004	PW1587LR	6/21/00			
802906-005	PW461HR	6/21/00			
802906-006	TRIP BLANK	6/21/00			

Please visit our Internet homepage at: [www.encheminc.com](http://www.encheminc.com)

The "Q" flag is present when a parameter has been detected below the LOQ. This indicates the results are qualified due to the uncertainty of the parameter concentration between the LOD and the LOQ.

Soil VOC detects are corrected for the total solids, unless otherwise noted.

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. Reported results shall not be reproduced, except in full, without the written approval of the lab. The sample results relate only to the analytes of interest tested.

J. Durancean  
Approval Signature

7/7/00  
Date



1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436  
800-7-ENCHEM  
FAX: 920-469-8827

**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Client: EARTH TECH INC

WI DNR LAB ID : 405132750

Sample No.	Field ID	Collection Date	Sample No.	Field ID	Collection Date
802905-001	LH2	6/21/00			
802905-002	LH1	6/21/00			
802905-003	PW1788MD	6/21/00			
802905-004	P8A	6/21/00			
802905-005	TRIP BLK	6/21/00			

Please visit our Internet homepage at: [www.encheminc.com](http://www.encheminc.com)

The "Q" flag is present when a parameter has been detected below the LOQ. This indicates the results are qualified due to the uncertainty of the parameter concentration between the LOD and the LOQ.

Soil VOC detects are corrected for the total solids, unless otherwise noted.

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. Reported results shall not be reproduced, except in full, without the written approval of the lab. The sample results relate only to the analytes of interest tested.

J. Duranceau  
Approval Signature

7/7/00  
Date

Lab#:	TestGroupID:	Comment:
802905-	SPECVOA-W	Methylene chloride is present in the laboratory environment. Detects should be considered suspect.
	W-ALK-W	A - Analyte present in blank at 17.7 mg/l.
	M-CD-D	A - Analyte is detected in the blank at a concentration of 0.07 ug/L.
	M-AG-D	A - Analyte is detected in the blank at a concentration of 0.37 ug/L.
	M-SE-D	A - Analyte is detected in the blank at a concentration of 1.04 ug/L.
	M-AS-D	A - Analyte is detected in the blank at a concentration of 0.31 ug/L.
	M-CR-D	A - Analyte is detected in the blank at a concentration of 0.34 ug/L.





1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436  
800-7-ENCHEM  
FAX: 920-469-8827

**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Client: EARTH TECH INC

WI DNR LAB ID : 405132750

Sample No.	Field ID	Collection Date	Sample No.	Field ID	Collection Date
802935-001	PW1749 MD	6/22/00			
802935-002	P7B	6/22/00			
802935-003	FIELD BLANK	6/22/00			

Please visit our Internet homepage at: [www.encheminc.com](http://www.encheminc.com)

The "Q" flag is present when a parameter has been detected below the LOQ. This indicates the results are qualified due to the uncertainty of the parameter concentration between the LOD and the LOQ.

Soil VOC detects are corrected for the total solids, unless otherwise noted.

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. Reported results shall not be reproduced, except in full, without the written approval of the lab. The sample results relate only to the analytes of interest tested.

J. Duran  
Approval Signature

7/7/00  
Date

**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Field ID : P3B

Lab Sample Number : 802856-001

WI DNR LAB ID : 405132750

Client : EARTH TECH INC

Report Date : 6/29/00

Collection Date : 6/19/00

Matrix Type : WATER

**Inorganic Results**

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Arsenic - Dissolved	0.59	0.075	0.24		ug/L	A	6/27/00	SW846 6020	SW846 6020	ccr
Barium - Dissolved	42	0.051	0.16		ug/L		6/27/00	SW846 6020	SW846 6020	ccr
Cadmium - Dissolved	< 0.044	0.044	0.14		ug/L	A	6/27/00	SW846 6020	SW846 6020	ccr
Chromium - Dissolved	0.41	0.10	0.32		ug/L	A	6/27/00	SW846 6020	SW846 6020	ccr
Lead - Dissolved	< 0.18	0.18	0.57		ug/L		6/27/00	SW846 6020	SW846 6020	ccr
Selenium - Dissolved	2.4	0.11	0.35		ug/L	A	6/27/00	SW846 6020	SW846 6020	ccr
Silver - Dissolved	< 0.031	0.031	0.099		ug/L	A	6/27/00	SW846 6020	SW846 6020	ccr
Alkalinity as CaCO3	260	3.5	11		mg/L	A	6/27/00	EPA 325.1	EPA 310.2	*MD
Chloride	24	0.15	0.48		mg/L		6/21/00	EPA 325.1	EPA 300.0	*MD
Mercury - Dissolved	0.032	0.021	0.067		ug/L	Q	6/29/00	SW846 7470A	SW846 7470A	*MD
Nitrogen, nitrate	4.7	0.080	0.25		mg/L		6/21/00	EPA 325.1	EPA 300.0	*MD

**Organic Results**

**ETHANE**

Prep Method: MOD. 8015

Prep Date: 6/22/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	< 10			10	ug/l		6/22/00	MOD. 8015

**Organic Results**

**ETHENE**

Prep Method: MOD. 8015

Prep Date: 6/22/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l		6/22/00	MOD. 8015

**Organic Results**

**METHANE**

Prep Method: MOD. 8015

Prep Date: 6/22/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	< 10			10	ug/l		6/22/00	MOD. 8015

- Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Field ID : P3A (DUP OF P3B)

Lab Sample Number : 802856-002

WI DNR LAB ID : 405132750

Client : EARTH TECH INC

Report Date : 6/29/00

Collection Date : 6/19/00

Matrix Type : WATER

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Arsenic - Dissolved	0.45	0.075	0.24		ug/L	A	6/27/00	SW846 6020	SW846 6020	ccr
Barium - Dissolved	42	0.051	0.16		ug/L		6/27/00	SW846 6020	SW846 6020	ccr
Cadmium - Dissolved	< 0.044	0.044	0.14		ug/L	A	6/27/00	SW846 6020	SW846 6020	ccr
Chromium - Dissolved	0.19	0.10	0.32		ug/L	QA	6/27/00	SW846 6020	SW846 6020	ccr
Lead - Dissolved	< 0.18	0.18	0.57		ug/L		6/27/00	SW846 6020	SW846 6020	ccr
Selenium - Dissolved	1.9	0.11	0.35		ug/L	A	6/27/00	SW846 6020	SW846 6020	ccr
Silver - Dissolved	< 0.031	0.031	0.099		ug/L	A	6/27/00	SW846 6020	SW846 6020	ccr
Alkalinity as CaCO3	290	3.5	11		mg/L		6/27/00	EPA 325.1	EPA 310.2	*MD
Chloride	24	0.15	0.48		mg/L		6/21/00	EPA 325.1	EPA 300.0	*MD
Mercury - Dissolved	< 0.021	0.021	0.067		ug/L		6/29/00	SW846 7470A	SW846 7470A	*MD
Nitrogen, nitrate	4.7	0.080	0.25		mg/L		6/21/00	EPA 325.1	EPA 300.0	*MD

Organic Results

ETHANE

Prep Method: MOD. 8015

Prep Date: 6/22/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	< 10			10	ug/l		6/22/00	MOD. 8015

Organic Results

ETHENE

Prep Method: MOD. 8015

Prep Date: 6/22/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l		6/22/00	MOD. 8015

Organic Results

METHANE

Prep Method: MOD. 8015

Prep Date: 6/22/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	< 10			10	ug/l		6/22/00	MOD. 8015

- Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Field ID : P2A

Lab Sample Number : 802856-003

WI DNR LAB ID : 405132750

Client : EARTH TECH INC

Report Date : 6/29/00

Collection Date : 6/19/00

Matrix Type : WATER

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Arsenic - Dissolved	1.4	0.075	0.24		ug/L	A	6/27/00	SW846 6020	SW846 6020	ccr
Barium - Dissolved	54	0.051	0.16		ug/L		6/27/00	SW846 6020	SW846 6020	ccr
Cadmium - Dissolved	< 0.044	0.044	0.14		ug/L	A	6/27/00	SW846 6020	SW846 6020	ccr
Chromium - Dissolved	0.52	0.10	0.32		ug/L	A	6/27/00	SW846 6020	SW846 6020	ccr
Lead - Dissolved	< 0.18	0.18	0.57		ug/L		6/27/00	SW846 6020	SW846 6020	ccr
Selenium - Dissolved	1.8	0.11	0.35		ug/L	A	6/27/00	SW846 6020	SW846 6020	ccr
Silver - Dissolved	< 0.031	0.031	0.099		ug/L	A	6/27/00	SW846 6020	SW846 6020	ccr
Alkalinity as CaCO3	480	3.5	11		mg/L		6/27/00	EPA 310.2	EPA 310.2	*MD
Chloride	220	1.5	4.8		mg/L		6/21/00	EPA 310.2	EPA 300.0	*MD
Mercury - Dissolved	< 0.021	0.021	0.067		ug/L		6/29/00	SW846 7470A	SW846 7470A	*MD
Nitrogen, nitrate	0.27	0.080	0.25		mg/L		6/21/00	EPA 310.2	EPA 300.0	*MD

Organic Results

ETHANE

Prep Method: MOD. 8015

Prep Date: 6/22/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	< 10			10	ug/l		6/22/00	MOD. 8015

Organic Results

ETHENE

Prep Method: MOD. 8015

Prep Date: 6/22/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l		6/22/00	MOD. 8015

Organic Results

METHANE

Prep Method: MOD. 8015

Prep Date: 6/22/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	< 10			10	ug/l		6/22/00	MOD. 8015

**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Field ID : P2B

Lab Sample Number : 802856-004

WI DNR LAB ID : 405132750

Client : EARTH TECH INC

Report Date : 6/29/00

Collection Date : 6/19/00

Matrix Type : WATER

**Inorganic Results**

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Arsenic - Dissolved	1.1	0.075	0.24		ug/L	A	6/27/00	SW846 6020	SW846 6020	ccr
Barium - Dissolved	67	0.051	0.16		ug/L		6/27/00	SW846 6020	SW846 6020	ccr
Cadmium - Dissolved	0.050	0.044	0.14		ug/L	QA	6/27/00	SW846 6020	SW846 6020	ccr
Chromium - Dissolved	0.24	0.10	0.32		ug/L	QA	6/27/00	SW846 6020	SW846 6020	ccr
Lead - Dissolved	< 0.18	0.18	0.57		ug/L		6/27/00	SW846 6020	SW846 6020	ccr
Selenium - Dissolved	1.3	0.11	0.35		ug/L	A	6/27/00	SW846 6020	SW846 6020	ccr
Silver - Dissolved	< 0.031	0.031	0.099		ug/L	A	6/27/00	SW846 6020	SW846 6020	ccr
Alkalinity as CaCO3	360	3.5	11		mg/L		6/27/00	EPA 325.1	EPA 310.2	*MD
Chloride	97	1.5	4.8		mg/L		6/21/00	EPA 325.1	EPA 300.0	*MD
Mercury - Dissolved	< 0.021	0.021	0.067		ug/L		6/29/00	SW846 7470A	SW846 7470A	*MD
Nitrogen, nitrate	0.17	0.080	0.25		mg/L	Q	6/21/00	EPA 325.1	EPA 300.0	*MD

**Organic Results**

**ETHANE**

Prep Method: MOD. 8015      Prep Date: 6/22/00      Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	24			10	ug/l		6/22/00	MOD. 8015

**Organic Results**

**ETHENE**

Prep Method: MOD. 8015      Prep Date: 6/22/00      Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l		6/22/00	MOD. 8015

**Organic Results**

**METHANE**

Prep Method: MOD. 8015      Prep Date: 6/22/00      Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	260			200	ug/l		6/22/00	MOD. 8015

- Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Field ID : P4B

Lab Sample Number : 802856-005

WI DNR LAB ID : 405132750

Client : EARTH TECH INC

Report Date : 6/29/00

Collection Date : 6/19/00

Matrix Type : WATER

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Arsenic - Dissolved	0.78	0.075	0.24		ug/L	A	6/27/00	SW846 6020	SW846 6020	ccr
Barium - Dissolved	44	0.051	0.16		ug/L		6/27/00	SW846 6020	SW846 6020	ccr
Cadmium - Dissolved	< 0.044	0.044	0.14		ug/L	A	6/27/00	SW846 6020	SW846 6020	ccr
Chromium - Dissolved	0.33	0.10	0.32		ug/L	A	6/27/00	SW846 6020	SW846 6020	ccr
Lead - Dissolved	< 0.18	0.18	0.57		ug/L		6/27/00	SW846 6020	SW846 6020	ccr
Selenium - Dissolved	2.1	0.11	0.35		ug/L	A	6/27/00	SW846 6020	SW846 6020	ccr
Silver - Dissolved	< 0.031	0.031	0.099		ug/L	A	6/27/00	SW846 6020	SW846 6020	ccr
Alkalinity as CaCO3	310	3.5	11		mg/L		6/27/00	EPA 310.2	EPA 310.2	*MD
Chloride	37	1.5	4.8		mg/L		6/21/00	EPA 310.2	EPA 300.0	*MD
Mercury - Dissolved	< 0.021	0.021	0.067		ug/L		6/29/00	SW846 7470A	SW846 7470A	*MD
Nitrogen, nitrate	4.7	0.080	0.25		mg/L		6/21/00	EPA 310.2	EPA 300.0	*MD

Organic Results

ETHANE

Prep Method: MOD. 8015

Prep Date: 6/22/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	< 10			10	ug/l		6/22/00	MOD. 8015

Organic Results

ETHENE

Prep Method: MOD. 8015

Prep Date: 6/22/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l		6/22/00	MOD. 8015

Organic Results

METHANE

Prep Method: MOD. 8015

Prep Date: 6/22/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	< 10			10	ug/l		6/22/00	MOD. 8015



- Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Field ID : FIELD BLANK

Lab Sample Number : 802856-006

WI DNR LAB ID : 405132750

Client : EARTH TECH INC

Report Date : 6/29/00

Collection Date : 6/19/00

Matrix Type : WATER

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Arsenic - Dissolved	0.13	0.075	0.24		ug/L	QA	6/27/00	SW846 6020	SW846 6020	ccr
Barium - Dissolved	0.11	0.051	0.16		ug/L	QA	6/27/00	SW846 6020	SW846 6020	ccr
Cadmium - Dissolved	< 0.044	0.044	0.14		ug/L	A	6/27/00	SW846 6020	SW846 6020	ccr
Chromium - Dissolved	1.6	0.10	0.32		ug/L	A	6/27/00	SW846 6020	SW846 6020	ccr
Lead - Dissolved	< 0.18	0.18	0.57		ug/L		6/27/00	SW846 6020	SW846 6020	ccr
Selenium - Dissolved	0.43	0.11	0.35		ug/L	A	6/27/00	SW846 6020	SW846 6020	ccr
Silver - Dissolved	< 0.031	0.031	0.099		ug/L	A	6/27/00	SW846 6020	SW846 6020	ccr
Alkalinity as CaCO3	7.9	3.5	11		mg/L	QA	6/27/00	EPA 325.1	EPA 310.2	*MD
Chloride	< 0.15	0.15	0.48		mg/L		6/21/00	EPA 325.1	EPA 300.0	*MD
Mercury - Dissolved	< 0.021	0.021	0.067		ug/L		6/29/00	SW846 7470A	SW846 7470A	*MD
Nitrogen, nitrate	< 0.080	0.080	0.25		mg/L		6/21/00	EPA 325.1	EPA 300.0	*MD

Organic Results

ETHANE

Prep Method: MOD. 8015

Prep Date: 6/22/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	< 10			10	ug/l		6/22/00	MOD. 8015

Organic Results

ETHENE

Prep Method: MOD. 8015

Prep Date: 6/22/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l		6/22/00	MOD. 8015

Organic Results

METHANE

Prep Method: MOD. 8015

Prep Date: 6/22/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	< 10			10	ug/l		6/22/00	MOD. 8015



**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Field ID : LH2**

**Lab Sample Number : 802905-001**

**WI DNR LAB ID : 405132750**

**Client : EARTH TECH INC**

**Report Date : 7/7/00**

**Collection Date : 6/21/00**

**Matrix Type : WATER**

**Inorganic Results**

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Arsenic - Dissolved	2.6	0.075	0.24		ug/L	A	6/28/00	SW846 6020	SW846 6020	ccr
Barium - Dissolved	21	0.051	0.16		ug/L		6/28/00	SW846 6020	SW846 6020	ccr
Cadmium - Dissolved	0.090	0.044	0.14		ug/L	QA	6/28/00	SW846 6020	SW846 6020	ccr
Chromium - Dissolved	1.5	0.10	0.32		ug/L	A	6/28/00	SW846 6020	SW846 6020	ccr
Lead - Dissolved	< 0.18	0.18	0.57		ug/L		6/28/00	SW846 6020	SW846 6020	ccr
Selenium - Dissolved	7.5	0.11	0.35		ug/L	A	6/28/00	SW846 6020	SW846 6020	ccr
Silver - Dissolved	1.4	0.031	0.099		ug/L	A	6/28/00	SW846 6020	SW846 6020	ccr
Alkalinity as CaCO3	190	3.5	11		mg/L	A	6/27/00	EPA 310.2	EPA 310.2	*MD
Chloride	500	1.6	5.1		mg/L		6/29/00	EPA 325.1	EPA 325.1	*MD
Mercury - Dissolved	< 0.021	0.021	0.067		ug/L		7/6/00	SW846 7470A	SW846 7470A	*MD
Nitrogen, nitrate	< 0.069	0.069	0.22		mg/L		6/23/00	353.2	353.2	*rl

**Organic Results**

**ETHANE**

Prep Method: MOD. 8015

Prep Date: 6/27/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	46			10	ug/l		6/27/00	MOD. 8015

**Organic Results**

**ETHENE**

Prep Method: MOD. 8015

Prep Date: 6/27/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l		6/27/00	MOD. 8015

**Organic Results**

**METHANE**

Prep Method: MOD. 8015

Prep Date: 6/27/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	1100			250	ug/l		6/27/00	MOD. 8015



**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Field ID : PW1788MD**

**Lab Sample Number : 802905-003**

**WI DNR LAB ID : 405132750**

**Client : EARTH TECH INC**

**Report Date : 7/7/00**

**Collection Date : 6/21/00**

**Matrix Type : WATER**

**Inorganic Results**

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Arsenic - Dissolved	0.85	0.075	0.24		ug/L	A	6/28/00	SW846 6020	SW846 6020	ccr
Barium - Dissolved	85	0.051	0.16		ug/L		6/28/00	SW846 6020	SW846 6020	ccr
Cadmium - Dissolved	< 0.044	0.044	0.14		ug/L		6/28/00	SW846 6020	SW846 6020	ccr
Chromium - Dissolved	1.1	0.10	0.32		ug/L	A	6/28/00	SW846 6020	SW846 6020	ccr
Lead - Dissolved	< 0.18	0.18	0.57		ug/L		6/28/00	SW846 6020	SW846 6020	ccr
Selenium - Dissolved	3.6	0.11	0.35		ug/L	A	6/28/00	SW846 6020	SW846 6020	ccr
Silver - Dissolved	0.24	0.031	0.099		ug/L	A	6/28/00	SW846 6020	SW846 6020	ccr
Alkalinity as CaCO3	350	3.5	11		mg/L	A	6/27/00	EPA 310.2	EPA 310.2	*MD
-Chloride	42	0.31	0.99		mg/L		6/29/00	EPA 325.1	EPA 325.1	*MD
Mercury - Dissolved	< 0.021	0.021	0.067		ug/L		7/6/00	SW846 7470A	SW846 7470A	*MD
Nitrogen, nitrate	1.3	0.069	0.22		mg/L		6/23/00	353.2	353.2	*rl

**Organic Results**

**ETHANE** Prep Method: MOD. 8015 Prep Date: 6/27/00 Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	< 10			10	ug/l		6/27/00	MOD. 8015

**Organic Results**

**ETHENE** Prep Method: MOD. 8015 Prep Date: 6/27/00 Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l		6/27/00	MOD. 8015

**Organic Results**

**METHANE** Prep Method: MOD. 8015 Prep Date: 6/27/00 Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	< 10			10	ug/l		6/27/00	MOD. 8015

- Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Field ID : P8A

Lab Sample Number : 802905-004

WI DNR LAB ID : 405132750

Client : EARTH TECH INC

Report Date : 7/7/00

Collection Date : 6/21/00

Matrix Type : WATER

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Arsenic - Dissolved	0.66	0.075	0.24		ug/L	A	6/28/00	SW846 6020	SW846 6020	ccr
Barium - Dissolved	120	0.051	0.16		ug/L		6/28/00	SW846 6020	SW846 6020	ccr
Cadmium - Dissolved	0.070	0.044	0.14		ug/L	QA	6/28/00	SW846 6020	SW846 6020	ccr
Chromium - Dissolved	0.98	0.10	0.32		ug/L	A	6/28/00	SW846 6020	SW846 6020	ccr
Lead - Dissolved	< 0.18	0.18	0.57		ug/L		6/28/00	SW846 6020	SW846 6020	ccr
Selenium - Dissolved	2.2	0.11	0.35		ug/L	A	6/28/00	SW846 6020	SW846 6020	ccr
Silver - Dissolved	0.10	0.031	0.099		ug/L	A	6/28/00	SW846 6020	SW846 6020	ccr
Alkalinity as CaCO3	290	3.5	11		mg/L	A	6/27/00	EPA 310.2	EPA 310.2	*MD
Chloride	50	0.31	0.99		mg/L		6/29/00	EPA 325.1	EPA 325.1	*MD
Mercury - Dissolved	< 0.021	0.021	0.067		ug/L		7/6/00	SW846 7470A	SW846 7470A	*MD
Nitrogen, nitrate	0.69	0.069	0.22		mg/L		6/23/00	353.2	353.2	*rl

Organic Results

ETHANE

Prep Method: MOD. 8015      Prep Date: 6/27/00      Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	< 10			10	ug/l		6/27/00	MOD. 8015

Organic Results

ETHENE

Prep Method: MOD. 8015      Prep Date: 6/27/00      Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l		6/27/00	MOD. 8015

Organic Results

METHANE

Prep Method: MOD. 8015      Prep Date: 6/27/00      Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	< 10			10	ug/l		6/27/00	MOD. 8015

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Field ID : PW1749 MD**

**Lab Sample Number : 802935-001**

**WI DNR LAB ID : 405132750**

**Client : EARTH TECH INC**

**Report Date : 7/7/00**

**Collection Date : 6/22/00**

**Matrix Type : WATER**

**Inorganic Results**

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Arsenic - Dissolved	0.37	0.075	0.24		ug/L	A	6/27/00	SW846 6020	SW846 6020	ccr
Barium - Dissolved	54	0.051	0.16		ug/L		6/27/00	SW846 6020	SW846 6020	ccr
Cadmium - Dissolved	< 0.044	0.044	0.14		ug/L		6/27/00	SW846 6020	SW846 6020	ccr
Chromium - Dissolved	0.83	0.10	0.32		ug/L	A	6/27/00	SW846 6020	SW846 6020	ccr
Lead - Dissolved	< 0.18	0.18	0.57		ug/L		6/27/00	SW846 6020	SW846 6020	ccr
Selenium - Dissolved	1.1	0.11	0.35		ug/L	A	6/27/00	SW846 6020	SW846 6020	ccr
Silver - Dissolved	0.14	0.031	0.099		ug/L	A	6/27/00	SW846 6020	SW846 6020	ccr
Alkalinity as CaCO3	340	3.5	11		mg/L		7/3/00	EPA 310.2	EPA 310.2	*MD
Chloride	11	0.31	0.99		mg/L		6/29/00	EPA 325.1	EPA 325.1	*MD
Mercury - Dissolved	0.049	0.021	0.067		ug/L	QA	7/5/00	SW846 7470A	SW846 7470A	*MD
Nitrogen, NO3 + NO2	0.78	0.037	0.12		mg/L		6/30/00	EPA 353.2	EPA 353.2	*MD

**Organic Results**

**ETHANE**

Prep Method: MOD. 8015      Prep Date: 6/27/00      Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	< 10			10	ug/l		6/27/00	MOD. 8015

**Organic Results**

**ETHENE**

Prep Method: MOD. 8015      Prep Date: 6/27/00      Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l		6/27/00	MOD. 8015

**Organic Results**

**METHANE**

Prep Method: MOD. 8015      Prep Date: 6/27/00      Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	< 10			10	ug/l		6/27/00	MOD. 8015

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Field ID : P7B**

**Lab Sample Number : 802935-002**

**WI DNR LAB ID : 405132750**

**Client : EARTH TECH INC**

**Report Date : 7/7/00**

**Collection Date : 6/22/00**

**Matrix Type : WATER**

**Inorganic Results**

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Arsenic - Dissolved	0.34	0.075	0.24		ug/L	A	6/27/00	SW846 6020	SW846 6020	ccr
Barium - Dissolved	52	0.051	0.16		ug/L		6/27/00	SW846 6020	SW846 6020	ccr
Cadmium - Dissolved	< 0.044	0.044	0.14		ug/L		6/27/00	SW846 6020	SW846 6020	ccr
Chromium - Dissolved	0.84	0.10	0.32		ug/L	A	6/27/00	SW846 6020	SW846 6020	ccr
Lead - Dissolved	< 0.18	0.18	0.57		ug/L		6/27/00	SW846 6020	SW846 6020	ccr
Selenium - Dissolved	1.4	0.11	0.35		ug/L	A	6/27/00	SW846 6020	SW846 6020	ccr
Silver - Dissolved	0.14	0.031	0.099		ug/L	A	6/27/00	SW846 6020	SW846 6020	ccr
Alkalinity as CaCO3	390	3.5	11		mg/L		7/3/00	EPA 310.2	EPA 310.2	*MD
Chloride	6.2	0.31	0.99		mg/L		6/29/00	EPA 325.1	EPA 325.1	*MD
Mercury - Dissolved	0.061	0.021	0.067		ug/L	QA	7/5/00	SW846 7470A	SW846 7470A	*MD
Nitrogen, NO3 + NO2	3.9	0.18	0.57		mg/L		6/30/00	EPA 353.2	EPA 353.2	*MD

**Organic Results**

**ETHANE** Prep Method: MOD. 8015 Prep Date: 6/27/00 Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	< 10			10	ug/l		6/27/00	MOD. 8015

**Organic Results**

**ETHENE** Prep Method: MOD. 8015 Prep Date: 6/27/00 Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l		6/27/00	MOD. 8015

**Organic Results**

**METHANE** Prep Method: MOD. 8015 Prep Date: 6/27/00 Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	< 10			10	ug/l		6/27/00	MOD. 8015

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Field ID : FIELD BLANK**

**Lab Sample Number : 802935-003**

**WI DNR LAB ID : 405132750**

**Client : EARTH TECH INC**

**Report Date : 7/7/00**

**Collection Date : 6/22/00**

**Matrix Type : WATER**

**Inorganic Results**

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Arsenic - Dissolved	< 0.075	0.075	0.24		ug/L		6/27/00	SW846 6020	SW846 6020	ccr
Barium - Dissolved	< 0.051	0.051	0.16		ug/L		6/27/00	SW846 6020	SW846 6020	ccr
Cadmium - Dissolved	< 0.044	0.044	0.14		ug/L		6/27/00	SW846 6020	SW846 6020	ccr
Chromium - Dissolved	0.14	0.10	0.32		ug/L	QA	6/27/00	SW846 6020	SW846 6020	ccr
Lead - Dissolved	0.21	0.18	0.57		ug/L	Q	6/27/00	SW846 6020	SW846 6020	ccr
Selenium - Dissolved	0.32	0.11	0.35		ug/L	QA	6/27/00	SW846 6020	SW846 6020	ccr
Silver - Dissolved	0.16	0.031	0.099		ug/L	A	6/27/00	SW846 6020	SW846 6020	ccr
Alkalinity as CaCO3	12	3.5	11		mg/L	A	7/3/00	EPA 310.2	EPA 310.2	*MD
Chloride	< 0.31	0.31	0.99		mg/L		6/29/00	EPA 325.1	EPA 325.1	*MD
Mercury - Dissolved	0.059	0.021	0.067		ug/L	QA	7/5/00	SW846 7470A	SW846 7470A	*MD
Nitrogen, NO3 + NO2	0.037	0.037	0.12		mg/L	Q	6/30/00	EPA 353.2	EPA 353.2	*MD

**Organic Results**

**ETHANE** Prep Method: MOD. 8015 Prep Date: 6/27/00 Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	< 10			10	ug/l		6/27/00	MOD. 8015

**Organic Results**

**ETHENE** Prep Method: MOD. 8015 Prep Date: 6/27/00 Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l		6/27/00	MOD. 8015

**Organic Results**

**METHANE** Prep Method: MOD. 8015 Prep Date: 6/27/00 Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	< 10			10	ug/l		6/27/00	MOD. 8015



**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Client : EARTH TECH INC

Field ID : P3B

Report Date : 6/29/00

Lab Sample Number : 802856-001

Collection Date : 6/19/00

WI DNR LAB ID : 405132750

Matrix Type : WATER

**Organic Results****SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030B

Prep Date: 6/22/00

Analyst: HW

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.44	0.44	1.4		ug/L		6/22/00	SW846 8260B
n-Butylbenzene	< 0.39	0.39	1.2		ug/L		6/22/00	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		6/22/00	SW846 8260B
Bromodichloromethane	< 0.41	0.41	1.3		ug/L		6/22/00	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		6/22/00	SW846 8260B
Bromoform	< 0.58	0.58	1.8		ug/L		6/22/00	SW846 8260B
Bromomethane	< 0.94	0.94	3.0		ug/L		6/22/00	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8		ug/L		6/22/00	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6		ug/L		6/22/00	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		6/22/00	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		6/22/00	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9		ug/L		6/22/00	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4		ug/L		6/22/00	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4		ug/L		6/22/00	SW846 8260B
Chloroethane	< 0.63	0.63	2.0		ug/L		6/22/00	SW846 8260B
Chloroform	< 0.41	0.41	1.3		ug/L		6/22/00	SW846 8260B
Chloromethane	< 0.44	0.44	1.4		ug/L		6/22/00	SW846 8260B
1,1-Dichloroethane	< 0.61	0.61	1.9		ug/L		6/22/00	SW846 8260B
1,1-Dichloroethene	< 0.47	0.47	1.5		ug/L		6/22/00	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		6/22/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		6/22/00	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		6/22/00	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		6/22/00	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		6/22/00	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		6/22/00	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		6/22/00	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		6/22/00	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		6/22/00	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		6/22/00	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9		ug/L		6/22/00	SW846 8260B
cis-1,2-Dichloroethene	< 0.46	0.46	1.5		ug/L		6/22/00	SW846 8260B
Dibromomethane	< 0.60	0.60	1.9		ug/L		6/22/00	SW846 8260B
Diisopropyl ether	< 0.42	0.42	1.3		ug/L		6/22/00	SW846 8260B

- Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Field ID : P3B

Lab Sample Number : 802856-001

WI DNR LAB ID : 405132750

Client : EARTH TECH INC

Report Date : 6/29/00

Collection Date : 6/19/00

Matrix Type : WATER

trans-1,2-Dichloroethene	< 0.64	0.64	2.0	ug/L		6/22/00	SW846 8260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L		6/22/00	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L		6/22/00	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L		6/22/00	SW846 8260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L		6/22/00	SW846 8260B
Methylene chloride	0.46	0.38	1.2	ug/L	Q	6/22/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.44	0.44	1.4	ug/L		6/22/00	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L		6/22/00	SW846 8260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L		6/22/00	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L		6/22/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6	ug/L		6/22/00	SW846 8260B
1,1,1-Trichloroethane	< 0.53	0.53	1.7	ug/L		6/22/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2	ug/L		6/22/00	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5	ug/L		6/22/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8	ug/L		6/22/00	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3	ug/L		6/22/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1	ug/L		6/22/00	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L		6/22/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5	ug/L		6/22/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4	ug/L		6/22/00	SW846 8260B
1,1,2-Trichlorotrifluoroethane	< 0.44	0.44	1.4	ug/L		6/22/00	SW846 8260B
Trichloroethene	37	0.49	1.6	ug/L		6/22/00	SW846 8260B
Tetrachloroethene	1.3	0.41	1.3	ug/L		6/22/00	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L		6/22/00	SW846 8260B
Vinyl chloride	< 0.52	0.52	1.7	ug/L		6/22/00	SW846 8260B
Xylenes, -m, -p	< 0.77	0.77	2.5	ug/L		6/22/00	SW846 8260B
Xylene, -o	< 0.54	0.54	1.7	ug/L		6/22/00	SW846 8260B
4-Bromofluorobenzene	72			%Recov		6/22/00	SW846 8260B
Dibromofluoromethane	77			%Recov		6/22/00	SW846 8260B
Toluene-d8	83			%Recov		6/22/00	SW846 8260B

- Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Client : EARTH TECH INC.

Field ID : P3A (DUP OF P3B)

Report Date : 6/29/00

Lab Sample Number : 802856-002

Collection Date : 6/19/00

WI DNR LAB ID : 405132750

Matrix Type : WATER

Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030B Prep Date: 6/22/00 Analyst: HW

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.44	0.44	1.4		ug/L		6/22/00	SW846 8260B
n-Butylbenzene	< 0.39	0.39	1.2		ug/L		6/22/00	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		6/22/00	SW846 8260B
Bromodichloromethane	< 0.41	0.41	1.3		ug/L		6/22/00	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		6/22/00	SW846 8260B
Bromoform	< 0.58	0.58	1.8		ug/L		6/22/00	SW846 8260B
Bromomethane	< 0.94	0.94	3.0		ug/L		6/22/00	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8		ug/L		6/22/00	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6		ug/L		6/22/00	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		6/22/00	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		6/22/00	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9		ug/L		6/22/00	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4		ug/L		6/22/00	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4		ug/L		6/22/00	SW846 8260B
Chloroethane	< 0.63	0.63	2.0		ug/L		6/22/00	SW846 8260B
Chloroform	< 0.41	0.41	1.3		ug/L		6/22/00	SW846 8260B
Chloromethane	< 0.44	0.44	1.4		ug/L		6/22/00	SW846 8260B
1,1-Dichloroethane	< 0.61	0.61	1.9		ug/L		6/22/00	SW846 8260B
1,1-Dichloroethene	< 0.47	0.47	1.5		ug/L		6/22/00	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		6/22/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		6/22/00	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		6/22/00	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		6/22/00	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		6/22/00	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		6/22/00	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		6/22/00	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		6/22/00	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		6/22/00	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		6/22/00	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9		ug/L		6/22/00	SW846 8260B
cis-1,2-Dichloroethene	< 0.46	0.46	1.5		ug/L		6/22/00	SW846 8260B
Dibromomethane	< 0.60	0.60	1.9		ug/L		6/22/00	SW846 8260B
Diisopropyl ether	< 0.42	0.42	1.3		ug/L		6/22/00	SW846 8260B

- Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Client : EARTH TECH INC

Field ID : P3A (DUP OF P3B)

Report Date : 6/29/00

Lab Sample Number : 802856-002

Collection Date : 6/19/00

WI DNR LAB ID : 405132750

Matrix Type : WATER

trans-1,2-Dichloroethene	< 0.64	0.64	2.0	ug/L		6/22/00	SW846 8260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L		6/22/00	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L		6/22/00	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L		6/22/00	SW846 8260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L		6/22/00	SW846 8260B
Methylene chloride	0.54	0.38	1.2	ug/L	Q	6/22/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.44	0.44	1.4	ug/L		6/22/00	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L		6/22/00	SW846 8260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L		6/22/00	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L		6/22/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6	ug/L		6/22/00	SW846 8260B
1,1,1-Trichloroethane	< 0.53	0.53	1.7	ug/L		6/22/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2	ug/L		6/22/00	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5	ug/L		6/22/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8	ug/L		6/22/00	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3	ug/L		6/22/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1	ug/L		6/22/00	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L		6/22/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5	ug/L		6/22/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4	ug/L		6/22/00	SW846 8260B
1,1,2-Trichlorotrifluoroethane	< 0.44	0.44	1.4	ug/L		6/22/00	SW846 8260B
Trichloroethene	34	0.49	1.6	ug/L		6/22/00	SW846 8260B
Tetrachloroethene	1.3	0.41	1.3	ug/L		6/22/00	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L		6/22/00	SW846 8260B
Vinyl chloride	< 0.52	0.52	1.7	ug/L		6/22/00	SW846 8260B
Xylenes, -m, -p	< 0.77	0.77	2.5	ug/L		6/22/00	SW846 8260B
Xylene, -o	< 0.54	0.54	1.7	ug/L		6/22/00	SW846 8260B
4-Bromofluorobenzene	71			%Recov		6/22/00	SW846 8260B
Dibromofluoromethane	73			%Recov		6/22/00	SW846 8260B
Toluene-d8	81			%Recov		6/22/00	SW846 8260B

- Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Field ID : P2A

Lab Sample Number : 802856-003

WI DNR LAB ID : 405132750

Client : EARTH TECH INC

Report Date : 6/29/00

Collection Date : 6/19/00

Matrix Type : WATER

trans-1,2-Dichloroethene	3.2	0.64	2.0	ug/L		6/22/00	SW846 8260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L		6/22/00	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L		6/22/00	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L		6/22/00	SW846 8260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L		6/22/00	SW846 8260B
Methylene chloride	0.53	0.38	1.2	ug/L	Q	6/22/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.44	0.44	1.4	ug/L		6/22/00	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L		6/22/00	SW846 8260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L		6/22/00	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L		6/22/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6	ug/L		6/22/00	SW846 8260B
1,1,1-Trichloroethane	3.3	0.53	1.7	ug/L		6/22/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2	ug/L		6/22/00	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5	ug/L		6/22/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8	ug/L		6/22/00	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3	ug/L		6/22/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1	ug/L		6/22/00	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L		6/22/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5	ug/L		6/22/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4	ug/L		6/22/00	SW846 8260B
1,1,2-Trichlorotrifluoroethane	< 0.44	0.44	1.4	ug/L		6/22/00	SW846 8260B
Trichloroethene	13	0.49	1.6	ug/L		6/22/00	SW846 8260B
Tetrachloroethene	0.71	0.41	1.3	ug/L	Q	6/22/00	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L		6/22/00	SW846 8260B
Vinyl chloride	1.9	0.52	1.7	ug/L		6/22/00	SW846 8260B
Xylenes, -m, -p	< 0.77	0.77	2.5	ug/L		6/22/00	SW846 8260B
Xylene, -o	< 0.54	0.54	1.7	ug/L		6/22/00	SW846 8260B
4-Bromofluorobenzene	72			%Recov		6/22/00	SW846 8260B
Dibromofluoromethane	76			%Recov		6/22/00	SW846 8260B
Toluene-d8	83			%Recov		6/22/00	SW846 8260B

- Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Field ID : P2B

Lab Sample Number : 802856-004

WI DNR LAB ID : 405132750

Client : EARTH TECH INC

Report Date : 6/29/00

Collection Date : 6/19/00

Matrix Type : WATER

Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030B Prep Date: 6/22/00 Analyst: HW

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 2.2	2.2	7.0		ug/L		6/23/00	SW846 8260B
n-Butylbenzene	< 1.9	1.9	6.1		ug/L		6/23/00	SW846 8260B
Bromochloromethane	< 1.1	1.1	3.5		ug/L		6/23/00	SW846 8260B
Bromodichloromethane	< 2.0	2.0	6.4		ug/L		6/23/00	SW846 8260B
Bromobenzene	< 2.3	2.3	7.3		ug/L		6/23/00	SW846 8260B
Bromoform	< 2.9	2.9	9.2		ug/L		6/23/00	SW846 8260B
Bromomethane	< 4.7	4.7	15		ug/L		6/23/00	SW846 8260B
s-Butylbenzene	< 2.9	2.9	9.2		ug/L		6/23/00	SW846 8260B
t-Butylbenzene	< 2.5	2.5	8.0		ug/L		6/23/00	SW846 8260B
2-Chlorotoluene	< 3.2	3.2	10		ug/L		6/23/00	SW846 8260B
4-Chlorotoluene	< 2.8	2.8	8.9		ug/L		6/23/00	SW846 8260B
Carbon tetrachloride	< 4.5	4.5	14		ug/L		6/23/00	SW846 8260B
Chlorodibromomethane	< 2.1	2.1	6.7		ug/L		6/23/00	SW846 8260B
Chlorobenzene	< 2.1	2.1	6.7		ug/L		6/23/00	SW846 8260B
Chloroethane	17	3.1	9.9		ug/L		6/23/00	SW846 8260B
Chloroform	< 2.0	2.0	6.4		ug/L		6/23/00	SW846 8260B
Chloromethane	< 2.2	2.2	7.0		ug/L		6/23/00	SW846 8260B
1,1-Dichloroethane	25	3.0	9.6		ug/L		6/23/00	SW846 8260B
1,1-Dichloroethene	3.8	2.3	7.3		ug/L	Q	6/23/00	SW846 8260B
1,1-Dichloropropene	< 2.9	2.9	9.2		ug/L		6/23/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 6.2	6.2	20		ug/L		6/23/00	SW846 8260B
1,2-Dibromoethane	< 2.4	2.4	7.6		ug/L		6/23/00	SW846 8260B
1,2-Dichlorobenzene	< 1.8	1.8	5.7		ug/L		6/23/00	SW846 8260B
1,2-Dichloroethane	< 2.7	2.7	8.6		ug/L		6/23/00	SW846 8260B
1,2-Dichloropropane	< 1.7	1.7	5.4		ug/L		6/23/00	SW846 8260B
1,3-Dichlorobenzene	< 3.2	3.2	10		ug/L		6/23/00	SW846 8260B
1,3-Dichloropropane	< 2.1	2.1	6.7		ug/L		6/23/00	SW846 8260B
1,4-Dichlorobenzene	< 2.1	2.1	6.7		ug/L		6/23/00	SW846 8260B
2,2-Dichloropropane	< 2.0	2.0	6.4		ug/L		6/23/00	SW846 8260B
Dichlorodifluoromethane	< 3.0	3.0	9.6		ug/L		6/23/00	SW846 8260B
cis-1,2-Dichloroethene	600	2.3	7.3		ug/L		6/23/00	SW846 8260B
Dibromomethane	< 3.0	3.0	9.6		ug/L		6/23/00	SW846 8260B
Diisopropyl ether	< 2.1	2.1	6.7		ug/L		6/23/00	SW846 8260B

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Client : EARTH TECH INC**

**Field ID : P2B**

**Report Date : 6/29/00**

**Lab Sample Number : 802856-004**

**Collection Date : 6/19/00**

**WI DNR LAB ID : 405132750**

**Matrix Type : WATER**

trans-1,2-Dichloroethene	12	3.2	10	ug/L	6/23/00	SW846 8260B
Ethylbenzene	< 2.5	2.5	8.0	ug/L	6/23/00	SW846 8260B
Hexachlorobutadiene	< 2.4	2.4	7.6	ug/L	6/23/00	SW846 8260B
p-Isopropyltoluene	< 2.5	2.5	8.0	ug/L	6/23/00	SW846 8260B
Isopropylbenzene	< 1.9	1.9	6.1	ug/L	6/23/00	SW846 8260B
Methylene chloride	< 1.9	1.9	6.1	ug/L	6/23/00	SW846 8260B
Methyl-tert-butyl-ether	< 2.2	2.2	7.0	ug/L	6/23/00	SW846 8260B
Naphthalene	< 2.9	2.9	9.2	ug/L	6/23/00	SW846 8260B
n-Propylbenzene	< 2.7	2.7	8.6	ug/L	6/23/00	SW846 8260B
Styrene	< 1.8	1.8	5.7	ug/L	6/23/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 2.4	2.4	7.6	ug/L	6/23/00	SW846 8260B
1,1,1-Trichloroethane	< 2.6	2.6	8.3	ug/L	6/23/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 3.4	3.4	11	ug/L	6/23/00	SW846 8260B
1,1,2-Trichloroethane	< 2.3	2.3	7.3	ug/L	6/23/00	SW846 8260B
1,2,3-Trichlorobenzene	< 2.8	2.8	8.9	ug/L	6/23/00	SW846 8260B
1,2,3-Trichloropropane	< 3.5	3.5	11	ug/L	6/23/00	SW846 8260B
1,2,4-Trichlorobenzene	< 1.8	1.8	5.7	ug/L	6/23/00	SW846 8260B
Fluorotrichloromethane	< 2.3	2.3	7.3	ug/L	6/23/00	SW846 8260B
1,2,4-Trimethylbenzene	< 2.3	2.3	7.3	ug/L	6/23/00	SW846 8260B
1,3,5-Trimethylbenzene	< 2.2	2.2	7.0	ug/L	6/23/00	SW846 8260B
1,1,2-Trichlorotrifluoroethane	< 2.2	2.2	7.0	ug/L	6/23/00	SW846 8260B
Trichloroethene	210	2.4	7.6	ug/L	6/23/00	SW846 8260B
Tetrachloroethene	< 2.0	2.0	6.4	ug/L	6/23/00	SW846 8260B
Toluene	< 2.0	2.0	6.4	ug/L	6/23/00	SW846 8260B
Vinyl chloride	450	2.6	8.3	ug/L	6/23/00	SW846 8260B
Xylenes, -m, -p	< 3.9	3.9	12	ug/L	6/23/00	SW846 8260B
Xylene, -o	< 2.7	2.7	8.6	ug/L	6/23/00	SW846 8260B
4-Bromofluorobenzene	69			%Recov	6/23/00	SW846 8260B
Dibromofluoromethane	75			%Recov	6/23/00	SW846 8260B
Toluene-d8	84			%Recov	6/23/00	SW846 8260B



- Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Client : EARTH TECH INC

Field ID : P4B

Report Date : 6/29/00

Lab Sample Number : 802856-005

Collection Date : 6/19/00

WI DNR LAB ID : 405132750

Matrix Type : WATER

Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030B

Prep Date: 6/22/00

Analyst: HW

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.44	0.44	1.4		ug/L		6/22/00	SW846 8260B
n-Butylbenzene	< 0.39	0.39	1.2		ug/L		6/22/00	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		6/22/00	SW846 8260B
Bromodichloromethane	< 0.41	0.41	1.3		ug/L		6/22/00	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		6/22/00	SW846 8260B
Bromoform	< 0.58	0.58	1.8		ug/L		6/22/00	SW846 8260B
Bromomethane	< 0.94	0.94	3.0		ug/L		6/22/00	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8		ug/L		6/22/00	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6		ug/L		6/22/00	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		6/22/00	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		6/22/00	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9		ug/L		6/22/00	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4		ug/L		6/22/00	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4		ug/L		6/22/00	SW846 8260B
Chloroethane	< 0.63	0.63	2.0		ug/L		6/22/00	SW846 8260B
Chloroform	< 0.41	0.41	1.3		ug/L		6/22/00	SW846 8260B
Chloromethane	< 0.44	0.44	1.4		ug/L		6/22/00	SW846 8260B
1,1-Dichloroethane	< 0.61	0.61	1.9		ug/L		6/22/00	SW846 8260B
1,1-Dichloroethene	< 0.47	0.47	1.5		ug/L		6/22/00	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		6/22/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		6/22/00	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		6/22/00	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		6/22/00	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		6/22/00	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		6/22/00	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		6/22/00	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		6/22/00	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		6/22/00	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		6/22/00	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9		ug/L		6/22/00	SW846 8260B
cis-1,2-Dichloroethene	2.4	0.46	1.5		ug/L		6/22/00	SW846 8260B
Dibromomethane	< 0.60	0.60	1.9		ug/L		6/22/00	SW846 8260B
Diisopropyl ether	< 0.42	0.42	1.3		ug/L		6/22/00	SW846 8260B

- Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Field ID : P4B

Lab Sample Number : 802856-005

WI DNR LAB ID : 405132750

Client : EARTH TECH INC

Report Date : 6/29/00

Collection Date : 6/19/00

Matrix Type : WATER

trans-1,2-Dichloroethene	< 0.64	0.64	2.0	ug/L		6/22/00	SW846 8260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L		6/22/00	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L		6/22/00	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L		6/22/00	SW846 8260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L		6/22/00	SW846 8260B
Methylene chloride	0.70	0.38	1.2	ug/L	Q	6/22/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.44	0.44	1.4	ug/L		6/22/00	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L		6/22/00	SW846 8260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L		6/22/00	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L		6/22/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6	ug/L		6/22/00	SW846 8260B
1,1,1-Trichloroethane	< 0.53	0.53	1.7	ug/L		6/22/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2	ug/L		6/22/00	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5	ug/L		6/22/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8	ug/L		6/22/00	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3	ug/L		6/22/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1	ug/L		6/22/00	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L		6/22/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5	ug/L		6/22/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4	ug/L		6/22/00	SW846 8260B
1,1,2-Trichlorotrifluoroethane	< 0.44	0.44	1.4	ug/L		6/22/00	SW846 8260B
Trichloroethene	3.3	0.49	1.6	ug/L		6/22/00	SW846 8260B
Tetrachloroethene	< 0.41	0.41	1.3	ug/L		6/22/00	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L		6/22/00	SW846 8260B
Vinyl chloride	1.2	0.52	1.7	ug/L	Q	6/22/00	SW846 8260B
Xylenes, -m, -p	< 0.77	0.77	2.5	ug/L		6/22/00	SW846 8260B
Xylene, -o	< 0.54	0.54	1.7	ug/L		6/22/00	SW846 8260B
4-Bromofluorobenzene	72			%Recov		6/22/00	SW846 8260B
Dibromofluoromethane	76			%Recov		6/22/00	SW846 8260B
Toluene-d8	83			%Recov		6/22/00	SW846 8260B

- Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Client : EARTH TECH INC

Field ID : FIELD BLANK

Report Date : 6/29/00

Lab Sample Number : 802856-006

Collection Date : 6/19/00

WI DNR LAB ID : 405132750

Matrix Type : WATER

Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030B Prep Date: 6/22/00 Analyst: HW

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.44	0.44	1.4		ug/L		6/22/00	SW846 8260B
n-Butylbenzene	< 0.39	0.39	1.2		ug/L		6/22/00	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		6/22/00	SW846 8260B
Bromodichloromethane	1.1	0.41	1.3		ug/L	Q	6/22/00	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		6/22/00	SW846 8260B
Bromoform	< 0.58	0.58	1.8		ug/L		6/22/00	SW846 8260B
Bromomethane	< 0.94	0.94	3.0		ug/L		6/22/00	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8		ug/L		6/22/00	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6		ug/L		6/22/00	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		6/22/00	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		6/22/00	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9		ug/L		6/22/00	SW846 8260B
Chlorodibromomethane	0.58	0.43	1.4		ug/L	Q	6/22/00	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4		ug/L		6/22/00	SW846 8260B
Chloroethane	< 0.63	0.63	2.0		ug/L		6/22/00	SW846 8260B
Chloroform	2.2	0.41	1.3		ug/L		6/22/00	SW846 8260B
Chloromethane	< 0.44	0.44	1.4		ug/L		6/22/00	SW846 8260B
1,1-Dichloroethane	< 0.61	0.61	1.9		ug/L		6/22/00	SW846 8260B
1,1-Dichloroethene	< 0.47	0.47	1.5		ug/L		6/22/00	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		6/22/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		6/22/00	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		6/22/00	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		6/22/00	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		6/22/00	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		6/22/00	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		6/22/00	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		6/22/00	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		6/22/00	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		6/22/00	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9		ug/L		6/22/00	SW846 8260B
cis-1,2-Dichloroethene	< 0.46	0.46	1.5		ug/L		6/22/00	SW846 8260B
Dibromomethane	< 0.60	0.60	1.9		ug/L		6/22/00	SW846 8260B
Diisopropyl ether	< 0.42	0.42	1.3		ug/L		6/22/00	SW846 8260B

- Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Client : EARTH TECH INC

Field ID : FIELD BLANK

Report Date : 6/29/00

Lab Sample Number : 802856-006

Collection Date : 6/19/00

WI DNR LAB ID : 405132750

Matrix Type : WATER

trans-1,2-Dichloroethene	< 0.64	0.64	2.0	ug/L		6/22/00	SW846 8260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L		6/22/00	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L		6/22/00	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L		6/22/00	SW846 8260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L		6/22/00	SW846 8260B
Methylene chloride	0.82	0.38	1.2	ug/L	Q	6/22/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.44	0.44	1.4	ug/L		6/22/00	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L		6/22/00	SW846 8260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L		6/22/00	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L		6/22/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6	ug/L		6/22/00	SW846 8260B
1,1,1-Trichloroethane	< 0.53	0.53	1.7	ug/L		6/22/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2	ug/L		6/22/00	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5	ug/L		6/22/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8	ug/L		6/22/00	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3	ug/L		6/22/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1	ug/L		6/22/00	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L		6/22/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5	ug/L		6/22/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4	ug/L		6/22/00	SW846 8260B
1,1,2-Trichlorotrifluoroethane	< 0.44	0.44	1.4	ug/L		6/22/00	SW846 8260B
Trichloroethene	< 0.49	0.49	1.6	ug/L		6/22/00	SW846 8260B
Tetrachloroethene	< 0.41	0.41	1.3	ug/L		6/22/00	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L		6/22/00	SW846 8260B
Vinyl chloride	< 0.52	0.52	1.7	ug/L		6/22/00	SW846 8260B
Xylenes, -m, -p	< 0.77	0.77	2.5	ug/L		6/22/00	SW846 8260B
Xylene, -o	< 0.54	0.54	1.7	ug/L		6/22/00	SW846 8260B
4-Bromofluorobenzene	74			%Recov		6/22/00	SW846 8260B
Dibromofluoromethane	76			%Recov		6/22/00	SW846 8260B
Toluene-d8	82			%Recov		6/22/00	SW846 8260B

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number :**

**Client : EARTH TECH INC**

**Field ID : PW1716LR**

**Report Date : 6/28/00**

**Lab Sample Number : 802906-001**

**Collection Date : 6/21/00**

**WI DNR LAB ID : 405132750**

**Matrix Type : WATER**

**Organic Results**

**SPECIAL VOLATILE LIST - WATER**

**Prep Method: SW846 5030B Prep Date: 6/27/00 Analyst: HW**

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.44	0.44	1.4		ug/L		6/27/00	SW846 8260B
n-Butylbenzene	< 0.39	0.39	1.2		ug/L		6/27/00	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		6/27/00	SW846 8260B
Bromodichloromethane	< 0.41	0.41	1.3		ug/L		6/27/00	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		6/27/00	SW846 8260B
Bromoform	< 0.58	0.58	1.8		ug/L		6/27/00	SW846 8260B
Bromomethane	< 0.94	0.94	3.0		ug/L		6/27/00	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8		ug/L		6/27/00	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6		ug/L		6/27/00	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		6/27/00	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		6/27/00	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9		ug/L		6/27/00	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4		ug/L		6/27/00	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4		ug/L		6/27/00	SW846 8260B
Chloroethane	< 0.63	0.63	2.0		ug/L		6/27/00	SW846 8260B
Chloroform	0.70	0.41	1.3		ug/L	Q	6/27/00	SW846 8260B
Chloromethane	< 0.44	0.44	1.4		ug/L		6/27/00	SW846 8260B
1,1-Dichloroethane	< 0.61	0.61	1.9		ug/L		6/27/00	SW846 8260B
1,1-Dichloroethene	< 0.47	0.47	1.5		ug/L		6/27/00	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		6/27/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		6/27/00	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		6/27/00	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		6/27/00	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		6/27/00	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		6/27/00	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		6/27/00	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		6/27/00	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		6/27/00	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		6/27/00	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9		ug/L		6/27/00	SW846 8260B
cis-1,2-Dichloroethene	< 0.46	0.46	1.5		ug/L		6/27/00	SW846 8260B
Dibromomethane	< 0.60	0.60	1.9		ug/L		6/27/00	SW846 8260B

- Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number :

Client : EARTH TECH INC

Field ID : PW1716LR

Report Date : 6/28/00

Lab Sample Number : 802906-001

Collection Date : 6/21/00

WI DNR LAB ID : 405132750

Matrix Type : WATER

Diisopropyl ether	< 0.42	0.42	1.3	ug/L		6/27/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.64	0.64	2.0	ug/L		6/27/00	SW846 8260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L		6/27/00	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L		6/27/00	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L		6/27/00	SW846 8260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L		6/27/00	SW846 8260B
Methylene chloride	0.99	0.38	1.2	ug/L	Q	6/27/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.44	0.44	1.4	ug/L		6/27/00	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L		6/27/00	SW846 8260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L		6/27/00	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L		6/27/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6	ug/L		6/27/00	SW846 8260B
1,1,1-Trichloroethane	< 0.53	0.53	1.7	ug/L		6/27/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2	ug/L		6/27/00	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5	ug/L		6/27/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8	ug/L		6/27/00	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3	ug/L		6/27/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1	ug/L		6/27/00	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L		6/27/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5	ug/L		6/27/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4	ug/L		6/27/00	SW846 8260B
1,1,2-Trichlorotrifluoroethane	< 0.44	0.44	1.4	ug/L		6/27/00	SW846 8260B
Trichloroethene	< 0.49	0.49	1.6	ug/L		6/27/00	SW846 8260B
Tetrachloroethene	< 0.41	0.41	1.3	ug/L		6/27/00	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L		6/27/00	SW846 8260B
Vinyl chloride	< 0.52	0.52	1.7	ug/L		6/27/00	SW846 8260B
Xylenes, -m, -p	< 0.77	0.77	2.5	ug/L		6/27/00	SW846 8260B
Xylene, -o	< 0.54	0.54	1.7	ug/L		6/27/00	SW846 8260B
4-Bromofluorobenzene	80			%Recov		6/27/00	SW846 8260B
Dibromofluoromethane	81			%Recov		6/27/00	SW846 8260B
Toluene-d8	87			%Recov		6/27/00	SW846 8260B



- Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number :

Client : EARTH TECH INC

Field ID : PW717HC

Report Date : 6/28/00

Lab Sample Number : 802906-002

Collection Date : 6/21/00

WI DNR LAB ID : 405132750

Matrix Type : WATER

Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030B Prep Date: 6/27/00 Analyst: HW

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.44	0.44	1.4		ug/L		6/27/00	SW846 8260B
n-Butylbenzene	< 0.39	0.39	1.2		ug/L		6/27/00	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		6/27/00	SW846 8260B
Bromodichloromethane	< 0.41	0.41	1.3		ug/L		6/27/00	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		6/27/00	SW846 8260B
Bromoform	< 0.58	0.58	1.8		ug/L		6/27/00	SW846 8260B
Bromomethane	< 0.94	0.94	3.0		ug/L		6/27/00	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8		ug/L		6/27/00	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6		ug/L		6/27/00	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		6/27/00	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		6/27/00	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9		ug/L		6/27/00	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4		ug/L		6/27/00	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4		ug/L		6/27/00	SW846 8260B
Chloroethane	< 0.63	0.63	2.0		ug/L		6/27/00	SW846 8260B
Chloroform	< 0.41	0.41	1.3		ug/L		6/27/00	SW846 8260B
Chloromethane	< 0.44	0.44	1.4		ug/L		6/27/00	SW846 8260B
1,1-Dichloroethane	< 0.61	0.61	1.9		ug/L		6/27/00	SW846 8260B
1,1-Dichloroethene	< 0.47	0.47	1.5		ug/L		6/27/00	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		6/27/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		6/27/00	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		6/27/00	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		6/27/00	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		6/27/00	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		6/27/00	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		6/27/00	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		6/27/00	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		6/27/00	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		6/27/00	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9		ug/L		6/27/00	SW846 8260B
cis-1,2-Dichloroethene	< 0.46	0.46	1.5		ug/L		6/27/00	SW846 8260B
Dibromomethane	< 0.60	0.60	1.9		ug/L		6/27/00	SW846 8260B



- Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number :

Client : EARTH TECH INC

Field ID : PW717HC

Report Date : 6/28/00

Lab Sample Number : 802906-002

Collection Date : 6/21/00

WI DNR LAB ID : 405132750

Matrix Type : WATER

Diisopropyl ether	< 0.42	0.42	1.3	ug/L	6/27/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.64	0.64	2.0	ug/L	6/27/00	SW846 8260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L	6/27/00	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L	6/27/00	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L	6/27/00	SW846 8260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L	6/27/00	SW846 8260B
Methylene chloride	< 0.38	0.38	1.2	ug/L	6/27/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.44	0.44	1.4	ug/L	6/27/00	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L	6/27/00	SW846 8260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L	6/27/00	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L	6/27/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6	ug/L	6/27/00	SW846 8260B
1,1,1-Trichloroethane	< 0.53	0.53	1.7	ug/L	6/27/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2	ug/L	6/27/00	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5	ug/L	6/27/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8	ug/L	6/27/00	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3	ug/L	6/27/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1	ug/L	6/27/00	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L	6/27/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5	ug/L	6/27/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4	ug/L	6/27/00	SW846 8260B
1,1,2-Trichlorotrifluoroethane	< 0.44	0.44	1.4	ug/L	6/27/00	SW846 8260B
Trichloroethene	< 0.49	0.49	1.6	ug/L	6/27/00	SW846 8260B
Tetrachloroethene	< 0.41	0.41	1.3	ug/L	6/27/00	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L	6/27/00	SW846 8260B
Vinyl chloride	< 0.52	0.52	1.7	ug/L	6/27/00	SW846 8260B
Xylenes, -m, -p	< 0.77	0.77	2.5	ug/L	6/27/00	SW846 8260B
Xylene, -o	< 0.54	0.54	1.7	ug/L	6/27/00	SW846 8260B
4-Bromofluorobenzene	101			%Recov	6/27/00	SW846 8260B
Dibromofluoromethane	96			%Recov	6/27/00	SW846 8260B
Toluene-d8	109			%Recov	6/27/00	SW846 8260B

**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Project Number :

Client : EARTH TECH INC

Field ID : PW1530LR

Report Date : 6/28/00

Lab Sample Number : 802906-003

Collection Date : 6/21/00

WI DNR LAB ID : 405132750

Matrix Type : WATER

**Organic Results****SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030B Prep Date: 6/27/00 Analyst: HW

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.44	0.44	1.4		ug/L		6/27/00	SW846 8260B
n-Butylbenzene	< 0.39	0.39	1.2		ug/L		6/27/00	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		6/27/00	SW846 8260B
Bromodichloromethane	< 0.41	0.41	1.3		ug/L		6/27/00	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		6/27/00	SW846 8260B
Bromoform	< 0.58	0.58	1.8		ug/L		6/27/00	SW846 8260B
Bromomethane	< 0.94	0.94	3.0		ug/L		6/27/00	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8		ug/L		6/27/00	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6		ug/L		6/27/00	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		6/27/00	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		6/27/00	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9		ug/L		6/27/00	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4		ug/L		6/27/00	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4		ug/L		6/27/00	SW846 8260B
Chloroethane	< 0.63	0.63	2.0		ug/L		6/27/00	SW846 8260B
Chloroform	< 0.41	0.41	1.3		ug/L		6/27/00	SW846 8260B
Chloromethane	< 0.44	0.44	1.4		ug/L		6/27/00	SW846 8260B
1,1-Dichloroethane	< 0.61	0.61	1.9		ug/L		6/27/00	SW846 8260B
1,1-Dichloroethene	< 0.47	0.47	1.5		ug/L		6/27/00	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		6/27/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		6/27/00	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		6/27/00	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		6/27/00	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		6/27/00	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		6/27/00	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		6/27/00	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		6/27/00	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		6/27/00	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		6/27/00	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9		ug/L		6/27/00	SW846 8260B
cis-1,2-Dichloroethene	< 0.46	0.46	1.5		ug/L		6/27/00	SW846 8260B
Dibromomethane	< 0.60	0.60	1.9		ug/L		6/27/00	SW846 8260B

**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Project Number :

Client : EARTH TECH INC

Field ID : PW1530LR

Report Date : 6/28/00

Lab Sample Number : 802906-003

Collection Date : 6/21/00

WI DNR LAB ID : 405132750

Matrix Type : WATER

Diisopropyl ether	< 0.42	0.42	1.3	ug/L	6/27/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.64	0.64	2.0	ug/L	6/27/00	SW846 8260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L	6/27/00	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L	6/27/00	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L	6/27/00	SW846 8260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L	6/27/00	SW846 8260B
Methylene chloride	< 0.38	0.38	1.2	ug/L	6/27/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.44	0.44	1.4	ug/L	6/27/00	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L	6/27/00	SW846 8260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L	6/27/00	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L	6/27/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6	ug/L	6/27/00	SW846 8260B
1,1,1-Trichloroethane	< 0.53	0.53	1.7	ug/L	6/27/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2	ug/L	6/27/00	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5	ug/L	6/27/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8	ug/L	6/27/00	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3	ug/L	6/27/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1	ug/L	6/27/00	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L	6/27/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5	ug/L	6/27/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4	ug/L	6/27/00	SW846 8260B
1,1,2-Trichlorotrifluoroethane	< 0.44	0.44	1.4	ug/L	6/27/00	SW846 8260B
Trichloroethene	< 0.49	0.49	1.6	ug/L	6/27/00	SW846 8260B
Tetrachloroethene	< 0.41	0.41	1.3	ug/L	6/27/00	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L	6/27/00	SW846 8260B
Vinyl chloride	< 0.52	0.52	1.7	ug/L	6/27/00	SW846 8260B
Xylenes, -m, -p	< 0.77	0.77	2.5	ug/L	6/27/00	SW846 8260B
Xylene, -o	< 0.54	0.54	1.7	ug/L	6/27/00	SW846 8260B
4-Bromofluorobenzene	99			%Recov	6/27/00	SW846 8260B
Dibromofluoromethane	96			%Recov	6/27/00	SW846 8260B
Toluene-d8	106			%Recov	6/27/00	SW846 8260B

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number :**

**Client : EARTH TECH INC**

**Field ID : PW1587LR**

**Report Date : 7/6/00**

**Lab Sample Number : 802906-004**

**Collection Date : 6/21/00**

**WI DNR LAB ID : 405132750**

**Matrix Type : WATER**

**Organic Results**

**SPECIAL VOLATILE LIST - WATER**

**Prep Method: SW846 5030B    Prep Date: 7/5/00    Analyst: HW**

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.29	0.29	0.92		ug/L		7/5/00	SW846 8260B
n-Butylbenzene	< 0.28	0.28	0.89		ug/L		7/5/00	SW846 8260B
Bromochloromethane	< 0.56	0.56	1.8		ug/L		7/5/00	SW846 8260B
Bromodichloromethane	< 0.30	0.30	0.96		ug/L		7/5/00	SW846 8260B
Bromobenzene	< 0.35	0.35	1.1		ug/L		7/5/00	SW846 8260B
Bromoform	< 0.24	0.24	0.76		ug/L		7/5/00	SW846 8260B
Bromomethane	< 0.62	0.62	2.0		ug/L		7/5/00	SW846 8260B
s-Butylbenzene	< 0.20	0.20	0.64		ug/L		7/5/00	SW846 8260B
t-Butylbenzene	< 0.23	0.23	0.73		ug/L		7/5/00	SW846 8260B
2-Chlorotoluene	< 0.19	0.19	0.61		ug/L		7/5/00	SW846 8260B
4-Chlorotoluene	< 0.21	0.21	0.67		ug/L		7/5/00	SW846 8260B
Carbon tetrachloride	< 0.22	0.22	0.70		ug/L		7/5/00	SW846 8260B
Chlorodibromomethane	< 2.8	2.8	8.9		ug/L		7/5/00	SW846 8260B
Chlorobenzene	< 0.19	0.19	0.61		ug/L		7/5/00	SW846 8260B
Chloroethane	< 0.46	0.46	1.5		ug/L		7/5/00	SW846 8260B
Chloroform	< 0.29	0.29	0.92		ug/L		7/5/00	SW846 8260B
Chloromethane	< 0.42	0.42	1.3		ug/L		7/5/00	SW846 8260B
1,1-Dichloroethane	< 0.17	0.17	0.54		ug/L		7/5/00	SW846 8260B
1,1-Dichloroethene	< 0.85	0.85	2.7		ug/L		7/5/00	SW846 8260B
1,1-Dichloropropene	< 0.46	0.46	1.5		ug/L		7/5/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.69	0.69	2.2		ug/L		7/5/00	SW846 8260B
1,2-Dibromoethane	< 0.42	0.42	1.3		ug/L		7/5/00	SW846 8260B
1,2-Dichlorobenzene	< 0.20	0.20	0.64		ug/L		7/5/00	SW846 8260B
1,2-Dichloroethane	< 0.21	0.21	0.67		ug/L		7/5/00	SW846 8260B
1,2-Dichloropropane	< 0.23	0.23	0.73		ug/L		7/5/00	SW846 8260B
1,3-Dichlorobenzene	< 0.12	0.12	0.38		ug/L		7/5/00	SW846 8260B
1,3-Dichloropropane	< 1.4	1.4	4.5		ug/L		7/5/00	SW846 8260B
1,4-Dichlorobenzene	< 0.31	0.31	0.99		ug/L		7/5/00	SW846 8260B
2,2-Dichloropropane	< 0.28	0.28	0.89		ug/L		7/5/00	SW846 8260B
Dichlorodifluoromethane	< 0.12	0.12	0.38		ug/L		7/5/00	SW846 8260B
cis-1,2-Dichloroethene	< 0.27	0.27	0.86		ug/L		7/5/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.23	0.23	0.73		ug/L		7/5/00	SW846 8260B

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number :**

**Client : EARTH TECH INC**

**Field ID : PW1587LR**

**Report Date : 7/6/00**

**Lab Sample Number : 802906-004**

**Collection Date : 6/21/00**

**WI DNR LAB ID : 405132750**

**Matrix Type : WATER**

Dibromomethane	< 0.22	0.22	0.70	ug/L		7/5/00	SW846 8260B
Diisopropyl ether	< 0.23	0.23	0.73	ug/L		7/5/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.35	0.35	1.1	ug/L		7/5/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.23	0.23	0.73	ug/L		7/5/00	SW846 8260B
Ethylbenzene	< 0.57	0.57	1.8	ug/L		7/5/00	SW846 8260B
Hexachlorobutadiene	< 0.43	0.43	1.4	ug/L		7/5/00	SW846 8260B
p-Isopropyltoluene	< 0.25	0.25	0.80	ug/L		7/5/00	SW846 8260B
Isopropylbenzene	< 0.19	0.19	0.61	ug/L		7/5/00	SW846 8260B
Methylene chloride	0.36	0.36	1.1	ug/L	Q	7/5/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.20	0.20	0.64	ug/L		7/5/00	SW846 8260B
Naphthalene	< 0.27	0.27	0.86	ug/L		7/5/00	SW846 8260B
n-Propylbenzene	< 0.17	0.17	0.54	ug/L		7/5/00	SW846 8260B
Styrene	< 0.72	0.72	2.3	ug/L		7/5/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.30	0.30	0.96	ug/L		7/5/00	SW846 8260B
1,1,1-Trichloroethane	< 0.21	0.21	0.67	ug/L		7/5/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.22	0.22	0.70	ug/L		7/5/00	SW846 8260B
1,1,2-Trichloroethane	< 0.33	0.33	1.1	ug/L		7/5/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.30	0.30	0.96	ug/L		7/5/00	SW846 8260B
1,2,3-Trichloropropane	< 0.89	0.89	2.8	ug/L		7/5/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.24	0.24	0.76	ug/L		7/5/00	SW846 8260B
Fluorotrichloromethane	< 0.31	0.31	0.99	ug/L		7/5/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.34	0.34	1.1	ug/L		7/5/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.29	0.29	0.92	ug/L		7/5/00	SW846 8260B
1,1,2-Trichlorotrifluoroethane	< 0.54	0.54	1.7	ug/L		7/5/00	SW846 8260B
Trichloroethene	< 0.32	0.32	1.0	ug/L		7/5/00	SW846 8260B
Tetrachloroethene	< 0.85	0.85	2.7	ug/L		7/5/00	SW846 8260B
Toluene	< 1.1	1.1	3.5	ug/L		7/5/00	SW846 8260B
Vinyl chloride	< 0.19	0.19	0.61	ug/L		7/5/00	SW846 8260B
Xylenes, -m, -p	< 0.35	0.35	1.1	ug/L		7/5/00	SW846 8260B
Xylene, -o	< 0.28	0.28	0.89	ug/L		7/5/00	SW846 8260B
4-Bromofluorobenzene	87			%Recov		7/5/00	SW846 8260B
Dibromofluoromethane	75			%Recov		7/5/00	SW846 8260B
Toluene-d8	90			%Recov		7/5/00	SW846 8260B

**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Project Number :

Client : EARTH TECH INC

Field ID : PW461HR

Report Date : 6/30/00

Lab Sample Number : 802906-005

Collection Date : 6/21/00

WI DNR LAB ID : 405132750

Matrix Type : WATER

**Organic Results****SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030B

Prep Date: 6/27/00

Analyst: JJB

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.29	0.29	0.92		ug/L		6/27/00	SW846 8260B
n-Butylbenzene	< 0.28	0.28	0.89		ug/L		6/27/00	SW846 8260B
Bromochloromethane	< 0.56	0.56	1.8		ug/L		6/27/00	SW846 8260B
Bromodichloromethane	< 0.30	0.30	0.96		ug/L		6/27/00	SW846 8260B
Bromobenzene	< 0.35	0.35	1.1		ug/L		6/27/00	SW846 8260B
Bromoform	< 0.24	0.24	0.76		ug/L		6/27/00	SW846 8260B
Bromomethane	< 0.62	0.62	2.0		ug/L		6/27/00	SW846 8260B
s-Butylbenzene	< 0.20	0.20	0.64		ug/L		6/27/00	SW846 8260B
t-Butylbenzene	< 0.23	0.23	0.73		ug/L		6/27/00	SW846 8260B
2-Chlorotoluene	< 0.19	0.19	0.61		ug/L		6/27/00	SW846 8260B
4-Chlorotoluene	< 0.21	0.21	0.67		ug/L		6/27/00	SW846 8260B
Carbon tetrachloride	< 0.22	0.22	0.70		ug/L		6/27/00	SW846 8260B
Chlorodibromomethane	< 2.8	2.8	8.9		ug/L		6/27/00	SW846 8260B
Chlorobenzene	< 0.19	0.19	0.61		ug/L		6/27/00	SW846 8260B
Chloroethane	< 0.46	0.46	1.5		ug/L		6/27/00	SW846 8260B
Chloroform	< 0.29	0.29	0.92		ug/L		6/27/00	SW846 8260B
Chloromethane	< 0.42	0.42	1.3		ug/L		6/27/00	SW846 8260B
1,1-Dichloroethane	< 0.17	0.17	0.54		ug/L		6/27/00	SW846 8260B
1,1-Dichloroethene	< 0.85	0.85	2.7		ug/L		6/27/00	SW846 8260B
1,1-Dichloropropene	< 0.46	0.46	1.5		ug/L		6/27/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.69	0.69	2.2		ug/L		6/27/00	SW846 8260B
1,2-Dibromoethane	< 0.42	0.42	1.3		ug/L		6/27/00	SW846 8260B
1,2-Dichlorobenzene	< 0.20	0.20	0.64		ug/L		6/27/00	SW846 8260B
1,2-Dichloroethane	< 0.21	0.21	0.67		ug/L		6/27/00	SW846 8260B
1,2-Dichloropropane	< 0.23	0.23	0.73		ug/L		6/27/00	SW846 8260B
1,3-Dichlorobenzene	< 0.12	0.12	0.38		ug/L		6/27/00	SW846 8260B
1,3-Dichloropropane	< 1.4	1.4	4.5		ug/L		6/27/00	SW846 8260B
1,4-Dichlorobenzene	< 0.31	0.31	0.99		ug/L		6/27/00	SW846 8260B
2,2-Dichloropropane	< 0.28	0.28	0.89		ug/L		6/27/00	SW846 8260B
Dichlorodifluoromethane	< 0.12	0.12	0.38		ug/L		6/27/00	SW846 8260B
cis-1,2-Dichloroethene	< 0.27	0.27	0.86		ug/L		6/27/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.23	0.23	0.73		ug/L		6/27/00	SW846 8260B

**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Project Number :

Client : EARTH TECH INC

Field ID : PW461HR

Report Date : 6/30/00

Lab Sample Number : 802906-005

Collection Date : 6/21/00

WI DNR LAB ID : 405132750

Matrix Type : WATER

Dibromomethane	< 0.22	0.22	0.70	ug/L		6/27/00	SW846 8260B
Diisopropyl ether	< 0.23	0.23	0.73	ug/L		6/27/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.35	0.35	1.1	ug/L		6/27/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.23	0.23	0.73	ug/L		6/27/00	SW846 8260B
Ethylbenzene	< 0.57	0.57	1.8	ug/L		6/27/00	SW846 8260B
Hexachlorobutadiene	< 0.43	0.43	1.4	ug/L		6/27/00	SW846 8260B
p-Isopropyltoluene	< 0.25	0.25	0.80	ug/L		6/27/00	SW846 8260B
Isopropylbenzene	< 0.19	0.19	0.61	ug/L		6/27/00	SW846 8260B
Methylene chloride	0.51	0.36	1.1	ug/L	Q	6/27/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.20	0.20	0.64	ug/L		6/27/00	SW846 8260B
Naphthalene	< 0.27	0.27	0.86	ug/L		6/27/00	SW846 8260B
n-Propylbenzene	< 0.17	0.17	0.54	ug/L		6/27/00	SW846 8260B
Styrene	< 0.72	0.72	2.3	ug/L		6/27/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.30	0.30	0.96	ug/L		6/27/00	SW846 8260B
1,1,1-Trichloroethane	< 0.21	0.21	0.67	ug/L		6/27/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.22	0.22	0.70	ug/L		6/27/00	SW846 8260B
1,1,2-Trichloroethane	< 0.33	0.33	1.1	ug/L		6/27/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.30	0.30	0.96	ug/L		6/27/00	SW846 8260B
1,2,3-Trichloropropane	< 0.89	0.89	2.8	ug/L		6/27/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.24	0.24	0.76	ug/L		6/27/00	SW846 8260B
Fluorotrichloromethane	< 0.31	0.31	0.99	ug/L		6/27/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.34	0.34	1.1	ug/L		6/27/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.29	0.29	0.92	ug/L		6/27/00	SW846 8260B
1,1,2-Trichlorotrifluoroethane	< 0.54	0.54	1.7	ug/L		6/27/00	SW846 8260B
Trichloroethene	< 0.32	0.32	1.0	ug/L		6/27/00	SW846 8260B
Tetrachloroethene	< 0.85	0.85	2.7	ug/L		6/27/00	SW846 8260B
Toluene	< 1.1	1.1	3.5	ug/L		6/27/00	SW846 8260B
Vinyl chloride	< 0.19	0.19	0.61	ug/L		6/27/00	SW846 8260B
Xylenes, -m, -p	< 0.35	0.35	1.1	ug/L		6/27/00	SW846 8260B
Xylene, -o	< 0.28	0.28	0.89	ug/L		6/27/00	SW846 8260B
4-Bromofluorobenzene	85			%Recov		6/27/00	SW846 8260B
Dibromofluoromethane	93			%Recov		6/27/00	SW846 8260B
Toluene-d8	89			%Recov		6/27/00	SW846 8260B



**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Project Number :

Client : EARTH TECH INC

Field ID : TRIP BLANK

Report Date : 6/28/00

Lab Sample Number : 802906-006

Collection Date : 6/21/00

WI DNR LAB ID : 405132750

Matrix Type : WATER

**Organic Results****SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030B Prep Date: 6/27/00 Analyst: HW

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.44	0.44	1.4		ug/L		6/27/00	SW846 8260B
n-Butylbenzene	< 0.39	0.39	1.2		ug/L		6/27/00	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		6/27/00	SW846 8260B
Bromodichloromethane	< 0.41	0.41	1.3		ug/L		6/27/00	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		6/27/00	SW846 8260B
Bromoform	< 0.58	0.58	1.8		ug/L		6/27/00	SW846 8260B
Bromomethane	< 0.94	0.94	3.0		ug/L		6/27/00	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8		ug/L		6/27/00	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6		ug/L		6/27/00	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		6/27/00	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		6/27/00	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9		ug/L		6/27/00	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4		ug/L		6/27/00	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4		ug/L		6/27/00	SW846 8260B
Chloroethane	< 0.63	0.63	2.0		ug/L		6/27/00	SW846 8260B
Chloroform	< 0.41	0.41	1.3		ug/L		6/27/00	SW846 8260B
Chloromethane	< 0.44	0.44	1.4		ug/L		6/27/00	SW846 8260B
1,1-Dichloroethane	< 0.61	0.61	1.9		ug/L		6/27/00	SW846 8260B
1,1-Dichloroethene	< 0.47	0.47	1.5		ug/L		6/27/00	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		6/27/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		6/27/00	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		6/27/00	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		6/27/00	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		6/27/00	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		6/27/00	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		6/27/00	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		6/27/00	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		6/27/00	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		6/27/00	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9		ug/L		6/27/00	SW846 8260B
cis-1,2-Dichloroethene	< 0.46	0.46	1.5		ug/L		6/27/00	SW846 8260B
Dibromomethane	< 0.60	0.60	1.9		ug/L		6/27/00	SW846 8260B

- Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number :

Client : EARTH TECH INC

Field ID : TRIP BLANK

Report Date : 6/28/00

Lab Sample Number : 802906-006

Collection Date : 6/21/00

WI DNR LAB ID : 405132750

Matrix Type : WATER

Diisopropyl ether	< 0.42	0.42	1.3	ug/L	6/27/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.64	0.64	2.0	ug/L	6/27/00	SW846 8260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L	6/27/00	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L	6/27/00	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L	6/27/00	SW846 8260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L	6/27/00	SW846 8260B
Methylene chloride	5.5	0.38	1.2	ug/L	6/27/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.44	0.44	1.4	ug/L	6/27/00	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L	6/27/00	SW846 8260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L	6/27/00	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L	6/27/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6	ug/L	6/27/00	SW846 8260B
1,1,1-Trichloroethane	< 0.53	0.53	1.7	ug/L	6/27/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2	ug/L	6/27/00	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5	ug/L	6/27/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8	ug/L	6/27/00	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3	ug/L	6/27/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1	ug/L	6/27/00	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L	6/27/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5	ug/L	6/27/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4	ug/L	6/27/00	SW846 8260B
1,1,2-Trichlorotrifluoroethane	< 0.44	0.44	1.4	ug/L	6/27/00	SW846 8260B
Trichloroethene	< 0.49	0.49	1.6	ug/L	6/27/00	SW846 8260B
Tetrachloroethene	< 0.41	0.41	1.3	ug/L	6/27/00	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L	6/27/00	SW846 8260B
Vinyl chloride	< 0.52	0.52	1.7	ug/L	6/27/00	SW846 8260B
Xylenes, -m, -p	< 0.77	0.77	2.5	ug/L	6/27/00	SW846 8260B
Xylene, -o	< 0.54	0.54	1.7	ug/L	6/27/00	SW846 8260B
4-Bromofluorobenzene	77			%Recov	6/27/00	SW846 8260B
Dibromofluoromethane	81			%Recov	6/27/00	SW846 8260B
Toluene-d8	88			%Recov	6/27/00	SW846 8260B

- Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Field ID : LH2

Lab Sample Number : 802905-001

WI DNR LAB ID : 405132750

Client : EARTH TECH INC

Report Date : 7/7/00

Collection Date : 6/21/00

Matrix Type : WATER

Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030B

Prep Date: 6/27/00

Analyst: JJB

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	0.62	0.44	1.4		ug/L	Q	6/27/00	SW846 8260B
n-Butylbenzene	< 0.39	0.39	1.2		ug/L		6/27/00	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		6/27/00	SW846 8260B
Bromodichloromethane	< 0.41	0.41	1.3		ug/L		6/27/00	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		6/27/00	SW846 8260B
Bromoform	< 0.58	0.58	1.8		ug/L		6/27/00	SW846 8260B
Bromomethane	< 0.94	0.94	3.0		ug/L		6/27/00	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8		ug/L		6/27/00	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6		ug/L		6/27/00	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		6/27/00	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		6/27/00	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9		ug/L		6/27/00	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4		ug/L		6/27/00	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4		ug/L		6/27/00	SW846 8260B
Chloroethane	1.8	0.63	2.0		ug/L	Q	6/27/00	SW846 8260B
Chloroform	< 0.41	0.41	1.3		ug/L		6/27/00	SW846 8260B
Chloromethane	< 0.44	0.44	1.4		ug/L		6/27/00	SW846 8260B
1,1-Dichloroethane	63	0.61	1.9		ug/L		6/27/00	SW846 8260B
1,1-Dichloroethene	0.82	0.47	1.5		ug/L	Q	6/27/00	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		6/27/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		6/27/00	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		6/27/00	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		6/27/00	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		6/27/00	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		6/27/00	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		6/27/00	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		6/27/00	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		6/27/00	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		6/27/00	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9		ug/L		6/27/00	SW846 8260B
cis-1,2-Dichloroethene	46	0.46	1.5		ug/L		6/27/00	SW846 8260B
Dibromomethane	< 0.60	0.60	1.9		ug/L		6/27/00	SW846 8260B
Diisopropyl ether	< 0.42	0.42	1.3		ug/L		6/27/00	SW846 8260B

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Field ID : LH2**

**Lab Sample Number : 802905-001**

**WI DNR LAB ID : 405132750**

**Client : EARTH TECH INC**

**Report Date : 7/7/00**

**Collection Date : 6/21/00**

**Matrix Type : WATER**

trans-1,2-Dichloroethene	1.4	0.64	2.0	ug/L	Q	6/27/00	SW846 8260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L		6/27/00	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L		6/27/00	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L		6/27/00	SW846 8260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L		6/27/00	SW846 8260B
Methylene chloride	0.68	0.38	1.2	ug/L	Q	6/27/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.44	0.44	1.4	ug/L		6/27/00	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L		6/27/00	SW846 8260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L		6/27/00	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L		6/27/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6	ug/L		6/27/00	SW846 8260B
1,1,1-Trichloroethane	< 0.53	0.53	1.7	ug/L		6/27/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2	ug/L		6/27/00	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5	ug/L		6/27/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8	ug/L		6/27/00	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3	ug/L		6/27/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1	ug/L		6/27/00	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L		6/27/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5	ug/L		6/27/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4	ug/L		6/27/00	SW846 8260B
1,1,2-Trichlorotrifluoroethane	< 0.44	0.44	1.4	ug/L		6/27/00	SW846 8260B
Trichloroethene	6.2	0.49	1.6	ug/L		6/27/00	SW846 8260B
Tetrachloroethene	< 0.41	0.41	1.3	ug/L		6/27/00	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L		6/27/00	SW846 8260B
Vinyl chloride	45	0.52	1.7	ug/L		6/27/00	SW846 8260B
Xylenes, -m, -p	< 0.77	0.77	2.5	ug/L		6/27/00	SW846 8260B
Xylene, -o	< 0.54	0.54	1.7	ug/L		6/27/00	SW846 8260B
4-Bromofluorobenzene	83			%Recov		6/27/00	SW846 8260B
Dibromofluoromethane	93			%Recov		6/27/00	SW846 8260B
Toluene-d8	90			%Recov		6/27/00	SW846 8260B

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Field ID : LH1**

**Lab Sample Number : 802905-002**

**WI DNR LAB ID : 405132750**

**Client : EARTH TECH INC**

**Report Date : 7/7/00**

**Collection Date : 6/21/00**

**Matrix Type : WATER**

**Organic Results**

**SPECIAL VOLATILE LIST - WATER**

**Prep Method: SW846 5030B**

**Prep Date: 6/27/00**

**Analyst: JJB**

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.29	0.29	0.92		ug/L		6/27/00	SW846 8260B
n-Butylbenzene	< 0.28	0.28	0.89		ug/L		6/27/00	SW846 8260B
Bromochloromethane	< 0.56	0.56	1.8		ug/L		6/27/00	SW846 8260B
Bromodichloromethane	< 0.30	0.30	0.96		ug/L		6/27/00	SW846 8260B
Bromobenzene	< 0.35	0.35	1.1		ug/L		6/27/00	SW846 8260B
Bromoform	< 0.24	0.24	0.76		ug/L		6/27/00	SW846 8260B
Bromomethane	< 0.62	0.62	2.0		ug/L		6/27/00	SW846 8260B
s-Butylbenzene	< 0.20	0.20	0.64		ug/L		6/27/00	SW846 8260B
t-Butylbenzene	< 0.23	0.23	0.73		ug/L		6/27/00	SW846 8260B
2-Chlorotoluene	< 0.19	0.19	0.61		ug/L		6/27/00	SW846 8260B
4-Chlorotoluene	< 0.21	0.21	0.67		ug/L		6/27/00	SW846 8260B
Carbon tetrachloride	< 0.22	0.22	0.70		ug/L		6/27/00	SW846 8260B
Chlorodibromomethane	< 2.8	2.8	8.9		ug/L		6/27/00	SW846 8260B
Chlorobenzene	< 0.19	0.19	0.61		ug/L		6/27/00	SW846 8260B
Chloroethane	1.5	0.46	1.5		ug/L		6/27/00	SW846 8260B
Chloroform	< 0.29	0.29	0.92		ug/L		6/27/00	SW846 8260B
Chloromethane	< 0.42	0.42	1.3		ug/L		6/27/00	SW846 8260B
1,1-Dichloroethane	4.2	0.17	0.54		ug/L		6/27/00	SW846 8260B
1,1-Dichloroethene	1.3	0.85	2.7		ug/L	Q	6/27/00	SW846 8260B
1,1-Dichloropropene	< 0.46	0.46	1.5		ug/L		6/27/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.69	0.69	2.2		ug/L		6/27/00	SW846 8260B
1,2-Dibromoethane	< 0.42	0.42	1.3		ug/L		6/27/00	SW846 8260B
1,2-Dichlorobenzene	< 0.20	0.20	0.64		ug/L		6/27/00	SW846 8260B
1,2-Dichloroethane	< 0.21	0.21	0.67		ug/L		6/27/00	SW846 8260B
1,2-Dichloropropane	< 0.23	0.23	0.73		ug/L		6/27/00	SW846 8260B
1,3-Dichlorobenzene	< 0.12	0.12	0.38		ug/L		6/27/00	SW846 8260B
1,3-Dichloropropane	< 1.4	1.4	4.5		ug/L		6/27/00	SW846 8260B
1,4-Dichlorobenzene	< 0.31	0.31	0.99		ug/L		6/27/00	SW846 8260B
2,2-Dichloropropane	< 0.28	0.28	0.89		ug/L		6/27/00	SW846 8260B
Dichlorodifluoromethane	< 0.12	0.12	0.38		ug/L		6/27/00	SW846 8260B
cis-1,2-Dichloroethene	120	0.27	0.86		ug/L		6/27/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.23	0.23	0.73		ug/L		6/27/00	SW846 8260B
Dibromomethane	< 0.22	0.22	0.70		ug/L		6/27/00	SW846 8260B

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Field ID : LH1**

**Lab Sample Number : 802905-002**

**WI DNR LAB ID : 405132750**

**Client : EARTH TECH INC**

**Report Date : 7/7/00**

**Collection Date : 6/21/00**

**Matrix Type : WATER**

Diisopropyl ether	< 0.23	0.23	0.73	ug/L		6/27/00	SW846 8260B
trans-1,2-Dichloroethene	5.3	0.35	1.1	ug/L		6/27/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.23	0.23	0.73	ug/L		6/27/00	SW846 8260B
Ethylbenzene	< 0.57	0.57	1.8	ug/L		6/27/00	SW846 8260B
Hexachlorobutadiene	< 0.43	0.43	1.4	ug/L		6/27/00	SW846 8260B
p-Isopropyltoluene	< 0.25	0.25	0.80	ug/L		6/27/00	SW846 8260B
Isopropylbenzene	< 0.19	0.19	0.61	ug/L		6/27/00	SW846 8260B
Methylene chloride	1.0	0.36	1.1	ug/L	Q	6/27/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.20	0.20	0.64	ug/L		6/27/00	SW846 8260B
Naphthalene	< 0.27	0.27	0.86	ug/L		6/27/00	SW846 8260B
n-Propylbenzene	< 0.17	0.17	0.54	ug/L		6/27/00	SW846 8260B
Styrene	< 0.72	0.72	2.3	ug/L		6/27/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.30	0.30	0.96	ug/L		6/27/00	SW846 8260B
1,1,1-Trichloroethane	< 0.21	0.21	0.67	ug/L		6/27/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.22	0.22	0.70	ug/L		6/27/00	SW846 8260B
1,1,2-Trichloroethane	< 0.33	0.33	1.1	ug/L		6/27/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.30	0.30	0.96	ug/L		6/27/00	SW846 8260B
1,2,3-Trichloropropane	< 0.89	0.89	2.8	ug/L		6/27/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.24	0.24	0.76	ug/L		6/27/00	SW846 8260B
Fluorotrichloromethane	< 0.31	0.31	0.99	ug/L		6/27/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.34	0.34	1.1	ug/L		6/27/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.29	0.29	0.92	ug/L		6/27/00	SW846 8260B
1,1,2-Trichlorotrifluoroethane	< 0.54	0.54	1.7	ug/L		6/27/00	SW846 8260B
Trichloroethene	27	0.32	1.0	ug/L		6/27/00	SW846 8260B
Tetrachloroethene	3.1	0.85	2.7	ug/L		6/27/00	SW846 8260B
Toluene	< 1.1	1.1	3.5	ug/L		6/27/00	SW846 8260B
Vinyl chloride	130	0.19	0.61	ug/L		6/27/00	SW846 8260B
Xylenes, -m, -p	< 0.35	0.35	1.1	ug/L		6/27/00	SW846 8260B
Xylene, -o	< 0.28	0.28	0.89	ug/L		6/27/00	SW846 8260B
4-Bromofluorobenzene	87			%Recov		6/27/00	SW846 8260B
Dibromofluoromethane	90			%Recov		6/27/00	SW846 8260B
Toluene-d8	91			%Recov		6/27/00	SW846 8260B

**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Client : EARTH TECH INC

Field ID : PW1788MD

Report Date : 7/7/00

Lab Sample Number : 802905-003

Collection Date : 6/21/00

WI DNR LAB ID : 405132750

Matrix Type : WATER

**Organic Results****SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030B Prep Date: 6/27/00 Analyst: HW

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.44	0.44	1.4		ug/L		6/27/00	SW846 8260B
n-Butylbenzene	< 0.39	0.39	1.2		ug/L		6/27/00	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		6/27/00	SW846 8260B
Bromodichloromethane	< 0.41	0.41	1.3		ug/L		6/27/00	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		6/27/00	SW846 8260B
Bromoform	< 0.58	0.58	1.8		ug/L		6/27/00	SW846 8260B
Bromomethane	< 0.94	0.94	3.0		ug/L		6/27/00	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8		ug/L		6/27/00	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6		ug/L		6/27/00	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		6/27/00	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		6/27/00	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9		ug/L		6/27/00	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4		ug/L		6/27/00	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4		ug/L		6/27/00	SW846 8260B
Chloroethane	< 0.63	0.63	2.0		ug/L		6/27/00	SW846 8260B
Chloroform	< 0.41	0.41	1.3		ug/L		6/27/00	SW846 8260B
Chloromethane	< 0.44	0.44	1.4		ug/L		6/27/00	SW846 8260B
1,1-Dichloroethane	< 0.61	0.61	1.9		ug/L		6/27/00	SW846 8260B
1,1-Dichloroethene	< 0.47	0.47	1.5		ug/L		6/27/00	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		6/27/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		6/27/00	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		6/27/00	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		6/27/00	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		6/27/00	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		6/27/00	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		6/27/00	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		6/27/00	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		6/27/00	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		6/27/00	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9		ug/L		6/27/00	SW846 8260B
cis-1,2-Dichloroethene	< 0.46	0.46	1.5		ug/L		6/27/00	SW846 8260B
Dibromomethane	< 0.60	0.60	1.9		ug/L		6/27/00	SW846 8260B
Diisopropyl ether	< 0.42	0.42	1.3		ug/L		6/27/00	SW846 8260B



**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Field ID : PW1788MD**

**Lab Sample Number : 802905-003**

**WI DNR LAB ID : 405132750**

**Client : EARTH TECH INC**

**Report Date : 7/7/00**

**Collection Date : 6/21/00**

**Matrix Type : WATER**

trans-1,2-Dichloroethene	< 0.64	0.64	2.0	ug/L		6/27/00	SW846 8260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L		6/27/00	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L		6/27/00	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L		6/27/00	SW846 8260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L		6/27/00	SW846 8260B
Methylene chloride	0.60	0.38	1.2	ug/L	Q	6/27/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.44	0.44	1.4	ug/L		6/27/00	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L		6/27/00	SW846 8260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L		6/27/00	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L		6/27/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6	ug/L		6/27/00	SW846 8260B
1,1,1-Trichloroethane	< 0.53	0.53	1.7	ug/L		6/27/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2	ug/L		6/27/00	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5	ug/L		6/27/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8	ug/L		6/27/00	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3	ug/L		6/27/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1	ug/L		6/27/00	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L		6/27/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5	ug/L		6/27/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4	ug/L		6/27/00	SW846 8260B
1,1,2-Trichlorotrifluoroethane	12	0.44	1.4	ug/L		6/27/00	SW846 8260B
Trichloroethene	2.2	0.49	1.6	ug/L		6/27/00	SW846 8260B
Tetrachloroethene	< 0.41	0.41	1.3	ug/L		6/27/00	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L		6/27/00	SW846 8260B
Vinyl chloride	< 0.52	0.52	1.7	ug/L		6/27/00	SW846 8260B
Xylenes, -m, -p	< 0.77	0.77	2.5	ug/L		6/27/00	SW846 8260B
Xylene, -o	< 0.54	0.54	1.7	ug/L		6/27/00	SW846 8260B
4-Bromofluorobenzene	72			%Recov		6/27/00	SW846 8260B
Dibromofluoromethane	75			%Recov		6/27/00	SW846 8260B
Toluene-d8	80			%Recov		6/27/00	SW846 8260B

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Field ID : P8A**

**Lab Sample Number : 802905-004**

**WI DNR LAB ID : 405132750**

**Client : EARTH TECH INC**

**Report Date : 7/7/00**

**Collection Date : 6/21/00**

**Matrix Type : WATER**

**Organic Results**

**SPECIAL VOLATILE LIST - WATER**

**Prep Method: SW846 5030B**

**Prep Date: 6/27/00**

**Analyst: HW**

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.44	0.44	1.4		ug/L		6/27/00	SW846 8260B
n-Butylbenzene	< 0.39	0.39	1.2		ug/L		6/27/00	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		6/27/00	SW846 8260B
Bromodichloromethane	< 0.41	0.41	1.3		ug/L		6/27/00	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		6/27/00	SW846 8260B
Bromoform	< 0.58	0.58	1.8		ug/L		6/27/00	SW846 8260B
Bromomethane	< 0.94	0.94	3.0		ug/L		6/27/00	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8		ug/L		6/27/00	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6		ug/L		6/27/00	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		6/27/00	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		6/27/00	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9		ug/L		6/27/00	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4		ug/L		6/27/00	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4		ug/L		6/27/00	SW846 8260B
Chloroethane	< 0.63	0.63	2.0		ug/L		6/27/00	SW846 8260B
Chloroform	< 0.41	0.41	1.3		ug/L		6/27/00	SW846 8260B
Chloromethane	< 0.44	0.44	1.4		ug/L		6/27/00	SW846 8260B
1,1-Dichloroethane	38	0.61	1.9		ug/L		6/27/00	SW846 8260B
1,1-Dichloroethene	4.4	0.47	1.5		ug/L		6/27/00	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		6/27/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		6/27/00	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		6/27/00	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		6/27/00	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		6/27/00	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		6/27/00	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		6/27/00	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		6/27/00	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		6/27/00	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		6/27/00	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9		ug/L		6/27/00	SW846 8260B
cis-1,2-Dichloroethene	140	0.46	1.5		ug/L		6/27/00	SW846 8260B
Dibromomethane	< 0.60	0.60	1.9		ug/L		6/27/00	SW846 8260B
Diisopropyl ether	< 0.42	0.42	1.3		ug/L		6/27/00	SW846 8260B

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Field ID : P8A**

**Lab Sample Number : 802905-004**

**WI DNR LAB ID : 405132750**

**Client : EARTH TECH INC**

**Report Date : 7/7/00**

**Collection Date : 6/21/00**

**Matrix Type : WATER**

trans-1,2-Dichloroethene	1.4	0.64	2.0	ug/L	Q	6/27/00	SW846 8260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L		6/27/00	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L		6/27/00	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L		6/27/00	SW846 8260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L		6/27/00	SW846 8260B
Methylene chloride	0.55	0.38	1.2	ug/L	Q	6/27/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.44	0.44	1.4	ug/L		6/27/00	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L		6/27/00	SW846 8260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L		6/27/00	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L		6/27/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6	ug/L		6/27/00	SW846 8260B
1,1,1-Trichloroethane	10	0.53	1.7	ug/L		6/27/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2	ug/L		6/27/00	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5	ug/L		6/27/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8	ug/L		6/27/00	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3	ug/L		6/27/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1	ug/L		6/27/00	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L		6/27/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5	ug/L		6/27/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4	ug/L		6/27/00	SW846 8260B
1,1,2-Trichlorotrifluoroethane	< 0.44	0.44	1.4	ug/L		6/27/00	SW846 8260B
Trichloroethene	76	0.49	1.6	ug/L		6/27/00	SW846 8260B
Tetrachloroethene	0.54	0.41	1.3	ug/L	Q	6/27/00	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L		6/27/00	SW846 8260B
Vinyl chloride	28	0.52	1.7	ug/L		6/27/00	SW846 8260B
Xylenes, -m, -p	< 0.77	0.77	2.5	ug/L		6/27/00	SW846 8260B
Xylene, -o	< 0.54	0.54	1.7	ug/L		6/27/00	SW846 8260B
4-Bromofluorobenzene	77			%Recov		6/27/00	SW846 8260B
Dibromofluoromethane	78			%Recov		6/27/00	SW846 8260B
Toluene-d8	88			%Recov		6/27/00	SW846 8260B

**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Client : EARTH TECH INC

Field ID : TRIP BLK

Report Date : 6/28/00

Lab Sample Number : 802905-005

Collection Date : 6/21/00

WI DNR LAB ID : 405132750

Matrix Type : WATER

**Organic Results****SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030B

Prep Date: 6/27/00

Analyst: HW

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.44	0.44	1.4		ug/L		6/27/00	SW846 8260B
n-Butylbenzene	< 0.39	0.39	1.2		ug/L		6/27/00	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		6/27/00	SW846 8260B
Bromodichloromethane	< 0.41	0.41	1.3		ug/L		6/27/00	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		6/27/00	SW846 8260B
Bromoform	< 0.58	0.58	1.8		ug/L		6/27/00	SW846 8260B
Bromomethane	< 0.94	0.94	3.0		ug/L		6/27/00	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8		ug/L		6/27/00	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6		ug/L		6/27/00	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		6/27/00	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		6/27/00	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9		ug/L		6/27/00	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4		ug/L		6/27/00	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4		ug/L		6/27/00	SW846 8260B
Chloroethane	< 0.63	0.63	2.0		ug/L		6/27/00	SW846 8260B
Chloroform	< 0.41	0.41	1.3		ug/L		6/27/00	SW846 8260B
Chloromethane	< 0.44	0.44	1.4		ug/L		6/27/00	SW846 8260B
1,1-Dichloroethane	< 0.61	0.61	1.9		ug/L		6/27/00	SW846 8260B
1,1-Dichloroethene	< 0.47	0.47	1.5		ug/L		6/27/00	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		6/27/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		6/27/00	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		6/27/00	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		6/27/00	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		6/27/00	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		6/27/00	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		6/27/00	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		6/27/00	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		6/27/00	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		6/27/00	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9		ug/L		6/27/00	SW846 8260B
cis-1,2-Dichloroethene	< 0.46	0.46	1.5		ug/L		6/27/00	SW846 8260B
Dibromomethane	< 0.60	0.60	1.9		ug/L		6/27/00	SW846 8260B

- Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Field ID : TRIP BLK

Lab Sample Number : 802905-005

WI DNR LAB ID : 405132750

Client : EARTH TECH INC

Report Date : 6/28/00

Collection Date : 6/21/00

Matrix Type : WATER

Diisopropyl ether	< 0.42	0.42	1.3	ug/L	6/27/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.64	0.64	2.0	ug/L	6/27/00	SW846 8260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L	6/27/00	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L	6/27/00	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L	6/27/00	SW846 8260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L	6/27/00	SW846 8260B
Methylene chloride	5.5	0.38	1.2	ug/L	6/27/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.44	0.44	1.4	ug/L	6/27/00	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L	6/27/00	SW846 8260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L	6/27/00	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L	6/27/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6	ug/L	6/27/00	SW846 8260B
1,1,1-Trichloroethane	< 0.53	0.53	1.7	ug/L	6/27/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2	ug/L	6/27/00	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5	ug/L	6/27/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8	ug/L	6/27/00	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3	ug/L	6/27/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1	ug/L	6/27/00	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L	6/27/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5	ug/L	6/27/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4	ug/L	6/27/00	SW846 8260B
1,1,2-Trichlorotrifluoroethane	< 0.44	0.44	1.4	ug/L	6/27/00	SW846 8260B
Trichloroethene	< 0.49	0.49	1.6	ug/L	6/27/00	SW846 8260B
Tetrachloroethene	< 0.41	0.41	1.3	ug/L	6/27/00	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L	6/27/00	SW846 8260B
Vinyl chloride	< 0.52	0.52	1.7	ug/L	6/27/00	SW846 8260B
Xylenes, -m, -p	< 0.77	0.77	2.5	ug/L	6/27/00	SW846 8260B
Xylene, -o	< 0.54	0.54	1.7	ug/L	6/27/00	SW846 8260B
4-Bromofluorobenzene	80			%Recov	6/27/00	SW846 8260B
Dibromofluoromethane	79			%Recov	6/27/00	SW846 8260B
Toluene-d8	90			%Recov	6/27/00	SW846 8260B

- Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Field ID : PW1749 MD

Lab Sample Number : 802935-001

WI DNR LAB ID : 405132750

Client : EARTH TECH INC

Report Date : 7/7/00

Collection Date : 6/22/00

Matrix Type : WATER

Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030B

Prep Date: 6/27/00

Analyst: JJB

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.29	0.29	0.92		ug/L		6/27/00	SW846 8260B
n-Butylbenzene	< 0.28	0.28	0.89		ug/L		6/27/00	SW846 8260B
Bromochloromethane	< 0.56	0.56	1.8		ug/L		6/27/00	SW846 8260B
Bromodichloromethane	< 0.30	0.30	0.96		ug/L		6/27/00	SW846 8260B
Bromobenzene	< 0.35	0.35	1.1		ug/L		6/27/00	SW846 8260B
Bromoform	< 0.24	0.24	0.76		ug/L		6/27/00	SW846 8260B
Bromomethane	< 0.62	0.62	2.0		ug/L		6/27/00	SW846 8260B
s-Butylbenzene	< 0.20	0.20	0.64		ug/L		6/27/00	SW846 8260B
t-Butylbenzene	< 0.23	0.23	0.73		ug/L		6/27/00	SW846 8260B
2-Chlorotoluene	< 0.19	0.19	0.61		ug/L		6/27/00	SW846 8260B
4-Chlorotoluene	< 0.21	0.21	0.67		ug/L		6/27/00	SW846 8260B
Carbon tetrachloride	< 0.22	0.22	0.70		ug/L		6/27/00	SW846 8260B
Chlorodibromomethane	< 2.8	2.8	8.9		ug/L		6/27/00	SW846 8260B
Chlorobenzene	< 0.19	0.19	0.61		ug/L		6/27/00	SW846 8260B
Chloroethane	< 0.46	0.46	1.5		ug/L		6/27/00	SW846 8260B
Chloroform	< 0.29	0.29	0.92		ug/L		6/27/00	SW846 8260B
Chloromethane	< 0.42	0.42	1.3		ug/L		6/27/00	SW846 8260B
1,1-Dichloroethane	0.96	0.17	0.54		ug/L		6/27/00	SW846 8260B
1,1-Dichloroethene	< 0.85	0.85	2.7		ug/L		6/27/00	SW846 8260B
1,1-Dichloropropene	< 0.46	0.46	1.5		ug/L		6/27/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.69	0.69	2.2		ug/L		6/27/00	SW846 8260B
1,2-Dibromoethane	< 0.42	0.42	1.3		ug/L		6/27/00	SW846 8260B
1,2-Dichlorobenzene	< 0.20	0.20	0.64		ug/L		6/27/00	SW846 8260B
1,2-Dichloroethane	< 0.21	0.21	0.67		ug/L		6/27/00	SW846 8260B
1,2-Dichloropropane	< 0.23	0.23	0.73		ug/L		6/27/00	SW846 8260B
1,3-Dichlorobenzene	< 0.12	0.12	0.38		ug/L		6/27/00	SW846 8260B
1,3-Dichloropropane	< 1.4	1.4	4.5		ug/L		6/27/00	SW846 8260B
1,4-Dichlorobenzene	< 0.31	0.31	0.99		ug/L		6/27/00	SW846 8260B
2,2-Dichloropropane	< 0.28	0.28	0.89		ug/L		6/27/00	SW846 8260B
Dichlorodifluoromethane	< 0.12	0.12	0.38		ug/L		6/27/00	SW846 8260B
cis-1,2-Dichloroethene	98	0.27	0.86		ug/L		6/27/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.23	0.23	0.73		ug/L		6/27/00	SW846 8260B
Dibromomethane	< 0.22	0.22	0.70		ug/L		6/27/00	SW846 8260B

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Field ID : PW1749 MD**

**Lab Sample Number : 802935-001**

**WI DNR LAB ID : 405132750**

**Client : EARTH TECH INC**

**Report Date : 7/7/00**

**Collection Date : 6/22/00**

**Matrix Type : WATER**

Diisopropyl ether	< 0.23	0.23	0.73	ug/L		6/27/00	SW846 8260B
trans-1,2-Dichloroethene	0.77	0.35	1.1	ug/L	Q	6/27/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.23	0.23	0.73	ug/L		6/27/00	SW846 8260B
Ethylbenzene	< 0.57	0.57	1.8	ug/L		6/27/00	SW846 8260B
Hexachlorobutadiene	< 0.43	0.43	1.4	ug/L		6/27/00	SW846 8260B
p-Isopropyltoluene	< 0.25	0.25	0.80	ug/L		6/27/00	SW846 8260B
Isopropylbenzene	< 0.19	0.19	0.61	ug/L		6/27/00	SW846 8260B
Methylene chloride	0.57	0.36	1.1	ug/L	Q	6/27/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.20	0.20	0.64	ug/L		6/27/00	SW846 8260B
Naphthalene	< 0.27	0.27	0.86	ug/L		6/27/00	SW846 8260B
n-Propylbenzene	< 0.17	0.17	0.54	ug/L		6/27/00	SW846 8260B
Styrene	< 0.72	0.72	2.3	ug/L		6/27/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.30	0.30	0.96	ug/L		6/27/00	SW846 8260B
1,1,1-Trichloroethane	1.2	0.21	0.67	ug/L		6/27/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.22	0.22	0.70	ug/L		6/27/00	SW846 8260B
1,1,2-Trichloroethane	< 0.33	0.33	1.1	ug/L		6/27/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.30	0.30	0.96	ug/L		6/27/00	SW846 8260B
1,2,3-Trichloropropane	< 0.89	0.89	2.8	ug/L		6/27/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.24	0.24	0.76	ug/L		6/27/00	SW846 8260B
Fluorotrichloromethane	< 0.31	0.31	0.99	ug/L		6/27/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.34	0.34	1.1	ug/L		6/27/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.29	0.29	0.92	ug/L		6/27/00	SW846 8260B
1,1,2-Trichlorotrifluoroethane	2.5	0.54	1.7	ug/L		6/27/00	SW846 8260B
Trichloroethene	89	0.32	1.0	ug/L		6/27/00	SW846 8260B
Tetrachloroethene	< 0.85	0.85	2.7	ug/L		6/27/00	SW846 8260B
Toluene	< 1.1	1.1	3.5	ug/L		6/27/00	SW846 8260B
Vinyl chloride	0.29	0.19	0.61	ug/L	Q	6/27/00	SW846 8260B
Xylenes, -m, -p	< 0.35	0.35	1.1	ug/L		6/27/00	SW846 8260B
Xylene, -o	< 0.28	0.28	0.89	ug/L		6/27/00	SW846 8260B
4-Bromofluorobenzene	81			%Recov		6/27/00	SW846 8260B
Dibromofluoromethane	92			%Recov		6/27/00	SW846 8260B
Toluene-d8	87			%Recov		6/27/00	SW846 8260B



**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Client : EARTH TECH INC**

**Field ID : P7B**

**Report Date : 7/7/00**

**Lab Sample Number : 802935-002**

**Collection Date : 6/22/00**

**WI DNR LAB ID : 405132750**

**Matrix Type : WATER**

**Organic Results**

**SPECIAL VOLATILE LIST - WATER**

**Prep Method: SW846 5030B    Prep Date: 6/27/00    Analyst: JJB**

<b>Analyte</b>	<b>Result</b>	<b>LOD</b>	<b>LOQ</b>	<b>EQL</b>	<b>Units</b>	<b>Code</b>	<b>Analysis Date</b>	<b>Analysis Method</b>
Benzene	< 0.29	0.29	0.92		ug/L		6/27/00	SW846 8260B
n-Butylbenzene	< 0.28	0.28	0.89		ug/L		6/27/00	SW846 8260B
Bromochloromethane	< 0.56	0.56	1.8		ug/L		6/27/00	SW846 8260B
Bromodichloromethane	< 0.30	0.30	0.96		ug/L		6/27/00	SW846 8260B
Bromobenzene	< 0.35	0.35	1.1		ug/L		6/27/00	SW846 8260B
Bromoform	< 0.24	0.24	0.76		ug/L		6/27/00	SW846 8260B
Bromomethane	< 0.62	0.62	2.0		ug/L		6/27/00	SW846 8260B
s-Butylbenzene	< 0.20	0.20	0.64		ug/L		6/27/00	SW846 8260B
t-Butylbenzene	< 0.23	0.23	0.73		ug/L		6/27/00	SW846 8260B
2-Chlorotoluene	< 0.19	0.19	0.61		ug/L		6/27/00	SW846 8260B
4-Chlorotoluene	< 0.21	0.21	0.67		ug/L		6/27/00	SW846 8260B
Carbon tetrachloride	< 0.22	0.22	0.70		ug/L		6/27/00	SW846 8260B
Chlorodibromomethane	< 2.8	2.8	8.9		ug/L		6/27/00	SW846 8260B
Chlorobenzene	< 0.19	0.19	0.61		ug/L		6/27/00	SW846 8260B
Chloroethane	< 0.46	0.46	1.5		ug/L		6/27/00	SW846 8260B
Chloroform	< 0.29	0.29	0.92		ug/L		6/27/00	SW846 8260B
Chloromethane	< 0.42	0.42	1.3		ug/L		6/27/00	SW846 8260B
1,1-Dichloroethane	< 0.17	0.17	0.54		ug/L		6/27/00	SW846 8260B
1,1-Dichloroethene	< 0.85	0.85	2.7		ug/L		6/27/00	SW846 8260B
1,1-Dichloropropene	< 0.46	0.46	1.5		ug/L		6/27/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.69	0.69	2.2		ug/L		6/27/00	SW846 8260B
1,2-Dibromoethane	< 0.42	0.42	1.3		ug/L		6/27/00	SW846 8260B
1,2-Dichlorobenzene	< 0.20	0.20	0.64		ug/L		6/27/00	SW846 8260B
1,2-Dichloroethane	< 0.21	0.21	0.67		ug/L		6/27/00	SW846 8260B
1,2-Dichloropropane	< 0.23	0.23	0.73		ug/L		6/27/00	SW846 8260B
1,3-Dichlorobenzene	< 0.12	0.12	0.38		ug/L		6/27/00	SW846 8260B
1,3-Dichloropropane	< 1.4	1.4	4.5		ug/L		6/27/00	SW846 8260B
1,4-Dichlorobenzene	< 0.31	0.31	0.99		ug/L		6/27/00	SW846 8260B
2,2-Dichloropropane	< 0.28	0.28	0.89		ug/L		6/27/00	SW846 8260B
Dichlorodifluoromethane	< 0.12	0.12	0.38		ug/L		6/27/00	SW846 8260B
cis-1,2-Dichloroethene	< 0.27	0.27	0.86		ug/L		6/27/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.23	0.23	0.73		ug/L		6/27/00	SW846 8260B
Dibromomethane	< 0.22	0.22	0.70		ug/L		6/27/00	SW846 8260B

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Client : EARTH TECH INC**

**Field ID : P7B**

**Report Date : 7/7/00**

**Lab Sample Number : 802935-002**

**Collection Date : 6/22/00**

**WI DNR LAB ID : 405132750**

**Matrix Type : WATER**

Diisopropyl ether	< 0.23	0.23	0.73	ug/L		6/27/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.35	0.35	1.1	ug/L		6/27/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.23	0.23	0.73	ug/L		6/27/00	SW846 8260B
Ethylbenzene	< 0.57	0.57	1.8	ug/L		6/27/00	SW846 8260B
hexachlorobutadiene	< 0.43	0.43	1.4	ug/L		6/27/00	SW846 8260B
p-Isopropyltoluene	< 0.25	0.25	0.80	ug/L		6/27/00	SW846 8260B
Isopropylbenzene	< 0.19	0.19	0.61	ug/L		6/27/00	SW846 8260B
Methylene chloride	0.50	0.36	1.1	ug/L	Q	6/27/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.20	0.20	0.64	ug/L		6/27/00	SW846 8260B
Naphthalene	< 0.27	0.27	0.86	ug/L		6/27/00	SW846 8260B
m-Propylbenzene	< 0.17	0.17	0.54	ug/L		6/27/00	SW846 8260B
Styrene	< 0.72	0.72	2.3	ug/L		6/27/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.30	0.30	0.96	ug/L		6/27/00	SW846 8260B
1,1,1-Trichloroethane	< 0.21	0.21	0.67	ug/L		6/27/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.22	0.22	0.70	ug/L		6/27/00	SW846 8260B
1,1,2-Trichloroethane	< 0.33	0.33	1.1	ug/L		6/27/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.30	0.30	0.96	ug/L		6/27/00	SW846 8260B
1,2,3-Trichloropropane	< 0.89	0.89	2.8	ug/L		6/27/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.24	0.24	0.76	ug/L		6/27/00	SW846 8260B
Fluorotrichloromethane	< 0.31	0.31	0.99	ug/L		6/27/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.34	0.34	1.1	ug/L		6/27/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.29	0.29	0.92	ug/L		6/27/00	SW846 8260B
1,1,2-Trichlorotrifluoroethane	< 0.54	0.54	1.7	ug/L		6/27/00	SW846 8260B
Trichloroethene	1.1	0.32	1.0	ug/L		6/27/00	SW846 8260B
Tetrachloroethene	< 0.85	0.85	2.7	ug/L		6/27/00	SW846 8260B
Toluene	< 1.1	1.1	3.5	ug/L		6/27/00	SW846 8260B
Vinyl chloride	< 0.19	0.19	0.61	ug/L		6/27/00	SW846 8260B
Xylenes, -m, -p	< 0.35	0.35	1.1	ug/L		6/27/00	SW846 8260B
Xylene, -o	< 0.28	0.28	0.89	ug/L		6/27/00	SW846 8260B
4-Bromofluorobenzene	85			%Recov		6/27/00	SW846 8260B
Dibromofluoromethane	94			%Recov		6/27/00	SW846 8260B
Toluene-d8	90			%Recov		6/27/00	SW846 8260B

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Field ID : FIELD BLANK**

**Lab Sample Number : 802935-003**

**WI DNR LAB ID : 405132750**

**Client : EARTH TECH INC**

**Report Date : 7/7/00**

**Collection Date : 6/22/00**

**Matrix Type : WATER**

**Organic Results**

**SPECIAL VOLATILE LIST - WATER**

**Prep Method: SW846 5030B**

**Prep Date: 6/27/00**

**Analyst: JJB**

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.29	0.29	0.92		ug/L		6/27/00	SW846 8260B
n-Butylbenzene	< 0.28	0.28	0.89		ug/L		6/27/00	SW846 8260B
Bromochloromethane	< 0.56	0.56	1.8		ug/L		6/27/00	SW846 8260B
Bromodichloromethane	< 0.30	0.30	0.96		ug/L		6/27/00	SW846 8260B
Bromobenzene	< 0.35	0.35	1.1		ug/L		6/27/00	SW846 8260B
Bromoform	< 0.24	0.24	0.76		ug/L		6/27/00	SW846 8260B
Bromomethane	< 0.62	0.62	2.0		ug/L		6/27/00	SW846 8260B
s-Butylbenzene	< 0.20	0.20	0.64		ug/L		6/27/00	SW846 8260B
t-Butylbenzene	< 0.23	0.23	0.73		ug/L		6/27/00	SW846 8260B
2-Chlorotoluene	< 0.19	0.19	0.61		ug/L		6/27/00	SW846 8260B
4-Chlorotoluene	< 0.21	0.21	0.67		ug/L		6/27/00	SW846 8260B
Carbon tetrachloride	< 0.22	0.22	0.70		ug/L		6/27/00	SW846 8260B
Chlorodibromomethane	< 2.8	2.8	8.9		ug/L		6/27/00	SW846 8260B
Chlorobenzene	< 0.19	0.19	0.61		ug/L		6/27/00	SW846 8260B
Chloroethane	< 0.46	0.46	1.5		ug/L		6/27/00	SW846 8260B
Chloroform	< 0.29	0.29	0.92		ug/L		6/27/00	SW846 8260B
Chloromethane	< 0.42	0.42	1.3		ug/L		6/27/00	SW846 8260B
1,1-Dichloroethane	< 0.17	0.17	0.54		ug/L		6/27/00	SW846 8260B
1,1-Dichloroethene	< 0.85	0.85	2.7		ug/L		6/27/00	SW846 8260B
1,1-Dichloropropene	< 0.46	0.46	1.5		ug/L		6/27/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.69	0.69	2.2		ug/L		6/27/00	SW846 8260B
1,2-Dibromoethane	< 0.42	0.42	1.3		ug/L		6/27/00	SW846 8260B
1,2-Dichlorobenzene	< 0.20	0.20	0.64		ug/L		6/27/00	SW846 8260B
1,2-Dichloroethane	< 0.21	0.21	0.67		ug/L		6/27/00	SW846 8260B
1,2-Dichloropropane	< 0.23	0.23	0.73		ug/L		6/27/00	SW846 8260B
1,3-Dichlorobenzene	< 0.12	0.12	0.38		ug/L		6/27/00	SW846 8260B
1,3-Dichloropropane	< 1.4	1.4	4.5		ug/L		6/27/00	SW846 8260B
1,4-Dichlorobenzene	< 0.31	0.31	0.99		ug/L		6/27/00	SW846 8260B
2,2-Dichloropropane	< 0.28	0.28	0.89		ug/L		6/27/00	SW846 8260B
Dichlorodifluoromethane	< 0.12	0.12	0.38		ug/L		6/27/00	SW846 8260B
cis-1,2-Dichloroethene	< 0.27	0.27	0.86		ug/L		6/27/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.23	0.23	0.73		ug/L		6/27/00	SW846 8260B
Dibromomethane	< 0.22	0.22	0.70		ug/L		6/27/00	SW846 8260B

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Field ID : FIELD BLANK**

**Lab Sample Number : 802935-003**

**WI DNR LAB ID : 405132750**

**Client : EARTH TECH INC**

**Report Date : 7/7/00**

**Collection Date : 6/22/00**

**Matrix Type : WATER**

Diisopropyl ether	< 0.23	0.23	0.73	ug/L		6/27/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.35	0.35	1.1	ug/L		6/27/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.23	0.23	0.73	ug/L		6/27/00	SW846 8260B
Ethylbenzene	< 0.57	0.57	1.8	ug/L		6/27/00	SW846 8260B
Hexachlorobutadiene	< 0.43	0.43	1.4	ug/L		6/27/00	SW846 8260B
p-Isopropyltoluene	< 0.25	0.25	0.80	ug/L		6/27/00	SW846 8260B
Isopropylbenzene	< 0.19	0.19	0.61	ug/L		6/27/00	SW846 8260B
Methylene chloride	0.52	0.36	1.1	ug/L	Q	6/27/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.20	0.20	0.64	ug/L		6/27/00	SW846 8260B
Naphthalene	< 0.27	0.27	0.86	ug/L		6/27/00	SW846 8260B
m-Propylbenzene	< 0.17	0.17	0.54	ug/L		6/27/00	SW846 8260B
Styrene	< 0.72	0.72	2.3	ug/L		6/27/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.30	0.30	0.96	ug/L		6/27/00	SW846 8260B
1,1,1-Trichloroethane	< 0.21	0.21	0.67	ug/L		6/27/00	SW846 8260B
1,1,1,2,2-Tetrachloroethane	< 0.22	0.22	0.70	ug/L		6/27/00	SW846 8260B
1,1,2-Trichloroethane	< 0.33	0.33	1.1	ug/L		6/27/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.30	0.30	0.96	ug/L		6/27/00	SW846 8260B
1,2,3-Trichloropropane	< 0.89	0.89	2.8	ug/L		6/27/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.24	0.24	0.76	ug/L		6/27/00	SW846 8260B
Fluorotrichloromethane	< 0.31	0.31	0.99	ug/L		6/27/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.34	0.34	1.1	ug/L		6/27/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.29	0.29	0.92	ug/L		6/27/00	SW846 8260B
1,1,2-Trichlorotrifluoroethane	< 0.54	0.54	1.7	ug/L		6/27/00	SW846 8260B
Trichloroethene	< 0.32	0.32	1.0	ug/L		6/27/00	SW846 8260B
Tetrachloroethene	< 0.85	0.85	2.7	ug/L		6/27/00	SW846 8260B
Toluene	< 1.1	1.1	3.5	ug/L		6/27/00	SW846 8260B
Vinyl chloride	< 0.19	0.19	0.61	ug/L		6/27/00	SW846 8260B
Xylenes, -m, -p	< 0.35	0.35	1.1	ug/L		6/27/00	SW846 8260B
Xylene, -o	< 0.28	0.28	0.89	ug/L		6/27/00	SW846 8260B
4-Bromofluorobenzene	83			%Recov		6/27/00	SW846 8260B
Dibromofluoromethane	94			%Recov		6/27/00	SW846 8260B
Toluene-d8	89			%Recov		6/27/00	SW846 8260B

**GROUNDWATER MONITORING DATA**

**SEPTEMBER, 2000**



1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436  
800-7-ENCHEM  
FAX: 920-469-8827

## - Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Client: EARTH TECH INC

WI DNR LAB ID : 405132750

Sample No.	Field ID	Collection Date	Sample No.	Field ID	Collection Date
804342-001	P3B	9/12/00			
804342-002	P2A	9/12/00			
804342-003	P2B	9/12/00			
804342-004	P2C	9/12/00			
804342-005	P4B	9/12/00			
804342-006	FIELD BLANK	9/12/00			

Please visit our Internet homepage at: [www.enchem.com](http://www.enchem.com)

The "Q" flag is present when a parameter has been detected below the LOQ. This indicates the results are qualified due to the uncertainty of the parameter concentration between the LOD and the LOQ.

Soil VOC detects are corrected for the total solids, unless otherwise noted.

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. Reported results shall not be reproduced, except in full, without the written approval of the lab. The sample results relate only to the analytes of interest tested.

*M. Saha*

Approval Signature

12/15/2000

Date

# En Chem Inc.

1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436  
800-7-ENCHEM  
Fax: 920-469-8827

---

Lab#:	TestGroupID:	Comment:
804342-	M-AS-D	A - Analyte is detected in the blank, at a concentration of 0.16 ug/L.
804342-006 FIELD BLANK	W-ALK-W	A - Analyte present in blank at 13 mg/l.





1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436  
800-7-ENCHEM  
FAX: 920-469-8827

## - Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Client: EARTH TECH INC

WI DNR LAB ID : 405132750

Sample No.	Field ID	Collection Date	Sample No.	Field ID	Collection Date
805782-001	P3B	9/12/00			
805782-002	P2A	9/12/00			
805782-003	P2B	9/12/00			
805782-004	P2C	9/12/00			
805782-005	P4B	9/12/00			
805782-006	FIELD BLANK	9/12/00			
805782-007	TRIP BLK	9/12/00			

Please visit our Internet homepage at: [www.enchem.com](http://www.enchem.com)

The "Q" flag is present when a parameter has been detected below the LOQ. This indicates the results are qualified due to the uncertainty of the parameter concentration between the LOD and the LOQ.

Soil VOC detects are corrected for the total solids, unless otherwise noted.

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. Reported results shall not be reproduced, except in full, without the written approval of the lab. The sample results relate only to the analytes of interest tested.

M. Suha  
Approval Signature

12/5/2000  
Date

# En Chem Inc.

1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436  
800-7-ENCHEM  
Fax: 920-469-8827

---

Lab#:	TestGroupID:	Comment:
805782-	Revised	Revised VOC reports from 804342.



1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436  
800-7-ENCHEM  
FAX: 920-469-8827

### - Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Client: EARTH TECH INC

WI DNR LAB ID : 405132750

Sample No.	Field ID	Collection Date	Sample No.	Field ID	Collection Date
804358-001	P7B	9/14/00			
804358-002	FIELD BLK	9/14/00			

Please visit our Internet homepage at: [www.enchem.com](http://www.enchem.com)

The "Q" flag is present when a parameter has been detected below the LOQ. This indicates the results are qualified due to the uncertainty of the parameter concentration between the LOD and the LOQ.

Soil VOC detects are corrected for the total solids, unless otherwise noted.

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. Reported results shall not be reproduced, except in full, without the written approval of the lab. The sample results relate only to the analytes of interest tested.

*M. Suha*

Approval Signature

*12/5/2000*

Date

# En Chem Inc.

1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436  
800-7-ENCHEM  
Fax: 920-469-8827

---

Lab#:	TestGroupID:	Comment:
804358-	W-NO3-W	Nitrate analyzed past the prescribed analytical hold time . The final results have been qualified with an H flag.
	M-AS-D	A - Analyte is detected in the blank, at a concentration of 0.16 ug/L.
804358-002	W-ALK-W	A - Analyte present in blank at 13 mg/l.
FIELD BLK		



1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436  
800-7-ENCHEM  
FAX: 920-469-8827

**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Client: EARTH TECH INC

WI DNR LAB ID : 405132750

Sample No.	Field ID	Collection Date	Sample No.	Field ID	Collection Date
805783-001	P7B	9/14/00			
805783-002	FIELD BLK	9/14/00			

Please visit our Internet homepage at: [www.enchem.com](http://www.enchem.com)

The "Q" flag is present when a parameter has been detected below the LOQ. This indicates the results are qualified due to the uncertainty of the parameter concentration between the LOD and the LOQ.

Soil VOC detects are corrected for the total solids, unless otherwise noted.

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. Reported results shall not be reproduced, except in full, without the written approval of the lab. The sample results relate only to the analytes of interest tested.

*M. Sulira*

Approval Signature

*12/15/2000*

Date

# En Chem Inc.

1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436  
800-7-ENCHEM  
Fax: 920-469-8827

---

Lab#:	TestGroupID:	Comment:
805783-	Revised	Revised VOC reports from 804358.
805783-002 FIELD BLK	SPECVOA-W	Methylene chloride is present in the laboratory environment. Detects should be considered suspect.



1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436  
800-7-ENCHEM  
FAX: 920-469-8827

**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Client: EARTH TECH INC

WI DNR LAB ID : 405132750

Sample No.	Field ID	Collection Date	Sample No.	Field ID	Collection Date
804361-001	LH2	9/13/00			
804361-002	LH1	9/13/00			
804361-003	PW1788MD	9/13/00			
804361-004	PW1749MD	9/13/00			
804361-005	P8A	9/13/00			

Please visit our Internet homepage at: [www.enchem.com](http://www.enchem.com)

The "Q" flag is present when a parameter has been detected below the LOQ. This indicates the results are qualified due to the uncertainty of the parameter concentration between the LOD and the LOQ.

Soil VOC detects are corrected for the total solids, unless otherwise noted.

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. Reported results shall not be reproduced, except in full, without the written approval of the lab. The sample results relate only to the analytes of interest tested.

M. Suba  
Approval Signature

12/5/2000  
Date



# En Chem Inc.

1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436  
800-7-ENCHEM  
Fax: 920-469-8827

---

Lab#:	TestGroupID:	Comment:
804361-	ETHENE-W	The MS RPD was out of control limits for Ethene. The data was accepted because the LCS RPD was within control limits.
	M-AS-D	A - Analyte is detected in the blank, at a concentration of 0.16 ug/L.
804361-001 LH2	M-HG-D	A - Analyte present in blank at 0.11 ug/l.
	W-ALK-W	A - Analyte present in blank at 13 mg/l.
804361-002 LH1	M-HG-D	A - Analyte present in blank at 0.11 ug/l.



1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436  
800-7-ENCHEM  
FAX: 920-469-8827

**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Client: EARTH TECH INC

WI DNR LAB ID : 405132750

Sample No.	Field ID	Collection Date	Sample No.	Field ID	Collection Date
805784-001	LH2	9/13/00			
805784-002	LH1	9/13/00			
805784-003	PW1788 MD	9/13/00			
805784-004	PW 1749 MD	9/13/00			
805784-005	P8A	9/13/00			

Please visit our Internet homepage at: [www.enchem.com](http://www.enchem.com)

The "Q" flag is present when a parameter has been detected below the LOQ. This indicates the results are qualified due to the uncertainty of the parameter concentration between the LOD and the LOQ.

Soil VOC detects are corrected for the total solids, unless otherwise noted.

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. Reported results shall not be reproduced, except in full, without the written approval of the lab. The sample results relate only to the analytes of interest tested.

M. Suba  
Approval Signature

12/5/2000  
Date

# En Chem Inc.

1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436  
800-7-ENCHEM  
Fax: 920-469-8827

---

Lab#:	TestGroupID:	Comment:
805784-	Revised	Revised VOC reports from 804361.

**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Field ID : P3B

Lab Sample Number : 804342-001

WI DNR LAB ID : 405132750

Client : EARTH TECH INC

Report Date : 12/5/00

Collection Date : 9/12/00

Matrix Type : WATER

**Inorganic Results**

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Arsenic	0.34	0.075	0.24		ug/L	A	9/19/00	SW846 6020	SW846 6020	ccr
Barium	41	0.051	0.16		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Cadmium	< 0.044	0.044	0.14		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Chromium	< 0.10	0.10	0.32		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Lead	< 0.18	0.18	0.57		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Selenium	1.1	0.11	0.35		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Silver - Dissolved	< 0.031	0.031	0.099		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Alkalinity as CaCO3	280	3.5	11		mg/L		9/20/00	EPA 310.2	EPA 310.2	*MD
Chloride	25	1.5	4.8		mg/L		9/15/00	EPA 300.0	EPA 300.0	*MD
Mercury - Dissolved	< 0.021	0.021	0.067		ug/L		9/15/00	SW846 7470A	SW846 7470A	*MD
Nitrogen, NO3 + NO2	4.8	0.18	0.57		mg/L		9/18/00	EPA 353.2	EPA 353.2	*MD

**Organic Results**

**ETHANE**

Prep Method: MOD. 8015

Prep Date: 9/14/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	< 10			10	ug/l		9/14/00	MOD. 8015

**Organic Results**

**ETHENE**

Prep Method: MOD. 8015

Prep Date: 9/14/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l		9/14/00	MOD. 8015

**Organic Results**

**METHANE**

Prep Method: MOD. 8015

Prep Date: 9/14/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	< 10			10	ug/l		9/14/00	MOD. 8015

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Field ID : P2A**

**Lab Sample Number : 804342-002**

**WI DNR LAB ID : 405132750**

**Client : EARTH TECH INC**

**Report Date : 12/5/00**

**Collection Date : 9/12/00**

**Matrix Type : WATER**

**Inorganic Results**

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Arsenic	2.4	0.075	0.24		ug/L	A	9/19/00	SW846 6020	SW846 6020	ccr
Barium	55	0.051	0.16		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Cadmium	< 0.044	0.044	0.14		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Chromium	< 0.10	0.10	0.32		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Lead	< 0.18	0.18	0.57		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Selenium	1.1	0.11	0.35		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Silver - Dissolved	< 0.031	0.031	0.099		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Alkalinity as CaCO3	490	3.5	11		mg/L		9/20/00	EPA 310.2	EPA 310.2	*MD
Chloride	270	3.0	9.6		mg/L		9/15/00	EPA 300.0	EPA 300.0	*MD
Mercury - Dissolved	< 0.021	0.021	0.067		ug/L		9/15/00	SW846 7470A	SW846 7470A	*MD
Nitrogen, NO3 + NO2	< 0.037	0.037	0.12		mg/L		9/18/00	EPA 353.2	EPA 353.2	*MD

**Organic Results**

**ETHANE** Prep Method: MOD. 8015 Prep Date: 9/14/00 Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	< 10			10	ug/l		9/14/00	MOD. 8015

**Organic Results**

**ETHENE** Prep Method: MOD. 8015 Prep Date: 9/14/00 Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l		9/14/00	MOD. 8015

**Organic Results**

**METHANE** Prep Method: MOD. 8015 Prep Date: 9/14/00 Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	11			10	ug/l		9/14/00	MOD. 8015







**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Client : EARTH TECH INC

Field ID : P4B

Report Date : 12/5/00

Lab Sample Number : 804342-005

Collection Date : 9/12/00

WI DNR LAB ID : 405132750

Matrix Type : WATER

**Inorganic Results**

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Arsenic	0.56	0.075	0.24		ug/L	A	9/19/00	SW846 6020	SW846 6020	ccr
Barium	44	0.051	0.16		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Cadmium	< 0.044	0.044	0.14		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Chromium	< 0.10	0.10	0.32		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Lead	< 0.18	0.18	0.57		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Selenium	1.2	0.11	0.35		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Silver - Dissolved	< 0.031	0.031	0.099		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Alkalinity as CaCO3	330	3.5	11		mg/L		9/20/00	EPA 310.2	EPA 310.2	*MD
Chloride	44	1.5	4.8		mg/L		9/15/00	EPA 300.0	EPA 300.0	*MD
Mercury - Dissolved	< 0.021	0.021	0.067		ug/L		9/15/00	SW846 7470A	SW846 7470A	*MD
Nitrogen, NO3 + NO2	4.9	0.18	0.57		mg/L		9/18/00	EPA 353.2	EPA 353.2	*MD

**Organic Results**

**ETHANE**

Prep Method: MOD. 8015

Prep Date: 9/14/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	< 10			10	ug/l		9/14/00	MOD. 8015

**Organic Results**

**ETHENE**

Prep Method: MOD. 8015

Prep Date: 9/14/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l		9/14/00	MOD. 8015

**Organic Results**

**METHANE**

Prep Method: MOD. 8015

Prep Date: 9/14/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	< 10			10	ug/l		9/14/00	MOD. 8015

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Field ID : FIELD BLANK**

**Lab Sample Number : 804342-006**

**WI DNR LAB ID : 405132750**

**Client : EARTH TECH INC**

**Report Date : 12/5/00**

**Collection Date : 9/12/00**

**Matrix Type : WATER**

**Inorganic Results**

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Arsenic	0.12	0.075	0.24		ug/L	QA	9/19/00	SW846 6020	SW846 6020	ccr
Barium	< 0.051	0.051	0.16		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Cadmium	< 0.044	0.044	0.14		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Chromium	< 0.10	0.10	0.32		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Lead	< 0.18	0.18	0.57		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Selenium	< 0.11	0.11	0.35		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Silver - Dissolved	< 0.031	0.031	0.099		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Alkalinity as CaCO3	8.9	3.5	11		mg/L	QA	9/20/00	EPA 310.2	EPA 310.2	*MD
Chloride	< 0.15	0.15	0.48		mg/L		9/15/00	EPA 300.0	EPA 300.0	*MD
Mercury - Dissolved	< 0.021	0.021	0.067		ug/L		9/15/00	SW846 7470A	SW846 7470A	*MD
Nitrogen, NO3 + NO2	< 0.037	0.037	0.12		mg/L		9/18/00	EPA 353.2	EPA 353.2	*MD

**Organic Results**

**ETHANE**

Prep Method: MOD. 8015

Prep Date: 9/14/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	< 10			10	ug/l		9/14/00	MOD. 8015

**Organic Results**

**ETHENE**

Prep Method: MOD. 8015

Prep Date: 9/14/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l		9/14/00	MOD. 8015

**Organic Results**

**METHANE**

Prep Method: MOD. 8015

Prep Date: 9/14/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	< 10			10	ug/l		9/14/00	MOD. 8015

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Field ID : LH2**

**Lab Sample Number : 804361-001**

**WI DNR LAB ID : 405132750**

**Client : EARTH TECH INC**

**Report Date : 12/5/00**

**Collection Date : 9/13/00**

**Matrix Type : WATER**

**Inorganic Results**

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Arsenic	0.55	0.075	0.24		ug/L	A	9/19/00	SW846 6020	SW846 6020	ccr
Barium	21	0.051	0.16		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Cadmium	< 0.044	0.044	0.14		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Chromium	< 0.10	0.10	0.32		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Lead	< 0.18	0.18	0.57		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Selenium	2.6	0.11	0.35		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Silver - Dissolved	< 0.031	0.031	0.099		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Alkalinity as CaCO3	42	3.5	11		mg/L	A	9/20/00	EPA 310.2	EPA 310.2	*MD
Chloride	94	1.5	4.8		mg/L		9/18/00	EPA 300.0	EPA 300.0	*MD
Mercury - Dissolved	0.29	0.021	0.067		ug/L	A	9/19/00	SW846 7470A	SW846 7470A	*MD
Nitrogen, NO3 + NO2	1.5	0.037	0.12		mg/L		9/18/00	EPA 353.2	EPA 353.2	*MD

**Organic Results**

**ETHANE**

Prep Method: MOD. 8015

Prep Date: 9/19/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	10			10	ug/l		9/19/00	MOD. 8015

**Organic Results**

**ETHENE**

Prep Method: MOD. 8015

Prep Date: 9/19/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l		9/19/00	MOD. 8015

**Organic Results**

**METHANE**

Prep Method: MOD. 8015

Prep Date: 9/19/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	95			40	ug/l		9/19/00	MOD. 8015

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Client : EARTH TECH INC**

**Field ID : LH1**

**Report Date : 12/5/00**

**Lab Sample Number : 804361-002**

**Collection Date : 9/13/00**

**WI DNR LAB ID : 405132750**

**Matrix Type : WATER**

**Inorganic Results**

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Arsenic	1.2	0.075	0.24		ug/L	A	9/19/00	SW846 6020	SW846 6020	ccr
Barium	42	0.051	0.16		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Cadmium	< 0.044	0.044	0.14		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Chromium	< 0.10	0.10	0.32		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Lead	< 0.18	0.18	0.57		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Selenium	6.4	0.11	0.35		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Silver - Dissolved	< 0.031	0.031	0.099		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Alkalinity as CaCO3	460	3.5	11		mg/L		9/20/00	EPA 310.2	EPA 310.2	*MD
Chloride	150	1.5	4.8		mg/L		9/18/00	EPA 300.0	EPA 300.0	*MD
Mercury - Dissolved	0.67	0.021	0.067		ug/L	A	9/19/00	SW846 7470A	SW846 7470A	*MD
Nitrogen, NO3 + NO2	2.9	0.037	0.12		mg/L		9/18/00	EPA 353.2	EPA 353.2	*MD

**Organic Results**

**ETHANE** Prep Method: MOD. 8015 Prep Date: 9/19/00 Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	< 10			10	ug/l		9/19/00	MOD. 8015

**Organic Results**

**ETHENE** Prep Method: MOD. 8015 Prep Date: 9/19/00 Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l		9/19/00	MOD. 8015

**Organic Results**

**METHANE** Prep Method: MOD. 8015 Prep Date: 9/19/00 Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	120			40	ug/l		9/19/00	MOD. 8015

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Field ID : PW1788MD**

**Lab Sample Number : 804361-003**

**WI DNR LAB ID : 405132750**

**Client : EARTH TECH INC**

**Report Date : 12/5/00**

**Collection Date : 9/13/00**

**Matrix Type : WATER**

**Inorganic Results**

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Arsenic	0.53	0.075	0.24		ug/L	A	9/19/00	SW846 6020	SW846 6020	ccr
Barium	81	0.051	0.16		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Cadmium	< 0.044	0.044	0.14		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Chromium	< 0.10	0.10	0.32		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Lead	< 0.18	0.18	0.57		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Selenium	1.2	0.11	0.35		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Silver - Dissolved	< 0.031	0.031	0.099		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Alkalinity as CaCO3	340	3.5	11		mg/L		9/20/00	EPA 310.2	EPA 310.2	*MD
Chloride	40	1.5	4.8		mg/L		9/18/00	EPA 300.0	EPA 300.0	*MD
Mercury - Dissolved	< 0.021	0.021	0.067		ug/L		9/19/00	SW846 7470A	SW846 7470A	*MD
Nitrogen, NO3 + NO2	0.94	0.037	0.12		mg/L		9/18/00	EPA 353.2	EPA 353.2	*MD

**Organic Results**

**ETHANE**

Prep Method: MOD. 8015

Prep Date: 9/19/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	< 10			10	ug/l		9/19/00	MOD. 8015

**Organic Results**

**ETHENE**

Prep Method: MOD. 8015

Prep Date: 9/19/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l		9/19/00	MOD. 8015

**Organic Results**

**METHANE**

Prep Method: MOD. 8015

Prep Date: 9/19/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	< 10			10	ug/l		9/19/00	MOD. 8015



- Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Client : EARTH TECH INC

Field ID : P8A

Report Date : 12/5/00

Lab Sample Number : 804361-005

Collection Date : 9/13/00

WI DNR LAB ID : 405132750

Matrix Type : WATER

**Inorganic Results**

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Arsenic	0.47	0.075	0.24		ug/L	A	9/19/00	SW846 6020	SW846 6020	ccr
Barium	100	0.051	0.16		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Cadmium	< 0.044	0.044	0.14		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Chromium	< 0.10	0.10	0.32		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Lead	< 0.18	0.18	0.57		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Selenium	0.56	0.11	0.35		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Silver - Dissolved	< 0.031	0.031	0.099		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Alkalinity as CaCO3	290	3.5	11		mg/L		9/20/00	EPA 310.2	EPA 310.2	*MD
Chloride	50	1.5	4.8		mg/L		9/18/00	EPA 300.0	EPA 300.0	*MD
Mercury - Dissolved	< 0.021	0.021	0.067		ug/L		9/19/00	SW846 7470A	SW846 7470A	*MD
Nitrogen, NO3 + NO2	0.69	0.037	0.12		mg/L		9/18/00	EPA 353.2	EPA 353.2	*MD

**Organic Results**

**ETHANE**

Prep Method: MOD. 8015

Prep Date: 9/19/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	< 10			10	ug/l		9/19/00	MOD. 8015

**Organic Results**

**ETHENE**

Prep Method: MOD. 8015

Prep Date: 9/19/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l		9/19/00	MOD. 8015

**Organic Results**

**METHANE**

Prep Method: MOD. 8015

Prep Date: 9/19/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	< 10			10	ug/l		9/19/00	MOD. 8015



- Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Field ID : P7B

Lab Sample Number : 804358-001

WI DNR LAB ID : 405132750

Client : EARTH TECH INC

Report Date : 12/5/00

Collection Date : 9/14/00

Matrix Type : WATER

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Arsenic - Dissolved	0.39	0.075	0.24		ug/L	A	9/19/00	SW846 6020	SW846 6020	ccr
Barium - Dissolved	48	0.051	0.16		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Cadmium - Dissolved	< 0.044	0.044	0.14		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Chromium - Dissolved	< 0.10	0.10	0.32		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Lead - Dissolved	< 0.18	0.18	0.57		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Selenium - Dissolved	0.69	0.11	0.35		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Silver - Dissolved	< 0.031	0.031	0.099		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Alkalinity as CaCO3	360	3.5	11		mg/L		9/20/00	EPA 310.2	EPA 310.2	*MD
Chloride	7.5	0.15	0.48		mg/L		9/18/00	EPA 300.0	EPA 300.0	*MD
Mercury - Dissolved	< 0.021	0.021	0.067		ug/L		9/25/00	SW846 7470A	SW846 7470A	*MD
Nitrogen, nitrate	3.2	0.080	0.25		mg/L	H(2)	9/18/00	EPA 300.0	EPA 300.0	*MD

Organic Results

ETHANE

Prep Method: MOD. 8015      Prep Date: 9/19/00      Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	< 10			10	ug/l		9/19/00	MOD. 8015

Organic Results

ETHENE

Prep Method: MOD. 8015      Prep Date: 9/19/00      Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l		9/19/00	MOD. 8015

Organic Results

METHANE

Prep Method: MOD. 8015      Prep Date: 9/19/00      Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	< 10			10	ug/l		9/19/00	MOD. 8015

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Field ID : FIELD BLK**

**Lab Sample Number : 804358-002**

**WI DNR LAB ID : 405132750**

**Client : EARTH TECH INC**

**Report Date : 12/5/00**

**Collection Date : 9/14/00**

**Matrix Type : WATER**

**Inorganic Results**

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Arsenic - Dissolved	< 0.075	0.075	0.24		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Barium - Dissolved	< 0.051	0.051	0.16		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Cadmium - Dissolved	< 0.044	0.044	0.14		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Chromium - Dissolved	< 0.10	0.10	0.32		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Lead - Dissolved	< 0.18	0.18	0.57		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Selenium - Dissolved	< 0.11	0.11	0.35		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Silver - Dissolved	< 0.031	0.031	0.099		ug/L		9/19/00	SW846 6020	SW846 6020	ccr
Alkalinity as CaCO3	9.6	3.5	11		mg/L	QA	9/20/00	EPA 310.2	EPA 310.2	*MD
Chloride	< 0.15	0.15	0.48		mg/L		9/18/00	EPA 300.0	EPA 300.0	*MD
Mercury - Dissolved	< 0.021	0.021	0.067		ug/L		9/25/00	SW846 7470A	SW846 7470A	*MD
Nitrogen, nitrate	< 0.080	0.080	0.25		mg/L	H(2)	9/18/00	EPA 300.0	EPA 300.0	*MD

**Organic Results**

**ETHANE**

Prep Method: MOD. 8015

Prep Date: 9/19/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	< 10			10	ug/l		9/19/00	MOD. 8015

**Organic Results**

**ETHENE**

Prep Method: MOD. 8015

Prep Date: 9/19/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l		9/19/00	MOD. 8015

**Organic Results**

**METHANE**

Prep Method: MOD. 8015

Prep Date: 9/19/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	< 10			10	ug/l		9/19/00	MOD. 8015

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Client : EARTH TECH INC**

**Field ID : P3B**

**Report Date : 12/5/00**

**Lab Sample Number : 805782-001**

**Collection Date : 9/12/00**

**WI DNR LAB ID : 405132750**

**Matrix Type : WATER**

**Organic Results**

**SPECIAL VOLATILE LIST - WATER**

**Prep Method: SW846 5030B**

**Prep Date: 9/14/00**

**Analyst: HW**

<b>Analyte</b>	<b>Result</b>	<b>LOD</b>	<b>LOQ</b>	<b>EQL</b>	<b>Units</b>	<b>Code</b>	<b>Analysis Date</b>	<b>Analysis Method</b>
Benzene	< 0.29	0.29	0.92		ug/L		9/14/00	SW846 8260B
n-Butylbenzene	< 0.28	0.28	0.89		ug/L		9/14/00	SW846 8260B
Bromochloromethane	< 0.56	0.56	1.8		ug/L		9/14/00	SW846 8260B
Bromodichloromethane	< 0.30	0.30	0.96		ug/L		9/14/00	SW846 8260B
Bromobenzene	< 0.35	0.35	1.1		ug/L		9/14/00	SW846 8260B
Bromoform	< 0.24	0.24	0.76		ug/L		9/14/00	SW846 8260B
Bromomethane	< 0.62	0.62	2.0		ug/L		9/14/00	SW846 8260B
s-Butylbenzene	< 0.20	0.20	0.64		ug/L		9/14/00	SW846 8260B
t-Butylbenzene	< 0.23	0.23	0.73		ug/L		9/14/00	SW846 8260B
2-Chlorotoluene	< 0.19	0.19	0.61		ug/L		9/14/00	SW846 8260B
4-Chlorotoluene	< 0.21	0.21	0.67		ug/L		9/14/00	SW846 8260B
Carbon tetrachloride	< 0.22	0.22	0.70		ug/L		9/14/00	SW846 8260B
Chlorodibromomethane	< 2.8	2.8	8.9		ug/L		9/14/00	SW846 8260B
Chlorobenzene	< 0.19	0.19	0.61		ug/L		9/14/00	SW846 8260B
Chloroethane	< 0.46	0.46	1.5		ug/L		9/14/00	SW846 8260B
Chloroform	< 0.29	0.29	0.92		ug/L		9/14/00	SW846 8260B
Chloromethane	< 0.42	0.42	1.3		ug/L		9/14/00	SW846 8260B
1,1-Dichloroethane	< 0.17	0.17	0.54		ug/L		9/14/00	SW846 8260B
1,1-Dichloroethene	< 0.85	0.85	2.7		ug/L		9/14/00	SW846 8260B
1,1-Dichloropropene	< 0.46	0.46	1.5		ug/L		9/14/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.69	0.69	2.2		ug/L		9/14/00	SW846 8260B
1,2-Dibromoethane	< 0.42	0.42	1.3		ug/L		9/14/00	SW846 8260B
1,2-Dichlorobenzene	< 0.20	0.20	0.64		ug/L		9/14/00	SW846 8260B
1,2-Dichloroethane	< 0.21	0.21	0.67		ug/L		9/14/00	SW846 8260B
1,2-Dichloropropane	< 0.23	0.23	0.73		ug/L		9/14/00	SW846 8260B
1,3-Dichlorobenzene	< 0.12	0.12	0.38		ug/L		9/14/00	SW846 8260B
1,3-Dichloropropane	< 1.4	1.4	4.5		ug/L		9/14/00	SW846 8260B
1,4-Dichlorobenzene	< 0.31	0.31	0.99		ug/L		9/14/00	SW846 8260B
2,2-Dichloropropane	< 0.28	0.28	0.89		ug/L		9/14/00	SW846 8260B
Dichlorodifluoromethane	< 0.12	0.12	0.38		ug/L		9/14/00	SW846 8260B
cis-1,2-Dichloroethene	< 0.27	0.27	0.86		ug/L		9/14/00	SW846 8260B
Dibromomethane	< 0.22	0.22	0.70		ug/L		9/14/00	SW846 8260B

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Field ID : P3B**

**Lab Sample Number : 805782-001**

**WI DNR LAB ID : 405132750**

**Client : EARTH TECH INC**

**Report Date : 12/5/00**

**Collection Date : 9/12/00**

**Matrix Type : WATER**

Diisopropyl ether	< 0.23	0.23	0.73	ug/L		9/14/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.35	0.35	1.1	ug/L		9/14/00	SW846 8260B
Ethylbenzene	< 0.57	0.57	1.8	ug/L		9/14/00	SW846 8260B
Hexachlorobutadiene	< 0.43	0.43	1.4	ug/L		9/14/00	SW846 8260B
p-Isopropyltoluene	< 0.25	0.25	0.80	ug/L		9/14/00	SW846 8260B
Isopropylbenzene	< 0.19	0.19	0.61	ug/L		9/14/00	SW846 8260B
Methylene chloride	< 0.36	0.36	1.1	ug/L		9/14/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.20	0.20	0.64	ug/L		9/14/00	SW846 8260B
Naphthalene	< 0.27	0.27	0.86	ug/L		9/14/00	SW846 8260B
n-Propylbenzene	< 0.17	0.17	0.54	ug/L		9/14/00	SW846 8260B
Styrene	< 0.72	0.72	2.3	ug/L		9/14/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.30	0.30	0.96	ug/L		9/14/00	SW846 8260B
1,1,1-Trichloroethane	< 0.21	0.21	0.67	ug/L		9/14/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.22	0.22	0.70	ug/L		9/14/00	SW846 8260B
1,1,2-Trichloroethane	< 0.33	0.33	1.1	ug/L		9/14/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.30	0.30	0.96	ug/L		9/14/00	SW846 8260B
1,2,3-Trichloropropane	< 0.89	0.89	2.8	ug/L		9/14/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.24	0.24	0.76	ug/L		9/14/00	SW846 8260B
Fluorotrichloromethane	< 0.31	0.31	0.99	ug/L		9/14/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.34	0.34	1.1	ug/L		9/14/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.29	0.29	0.92	ug/L		9/14/00	SW846 8260B
1,1,2-Trichlorotrifluoroethane	< 0.54	0.54	1.7	ug/L		9/14/00	SW846 8260B
Trichloroethene	36	0.32	1.0	ug/L		9/14/00	SW846 8260B
Tetrachloroethene	1.6	0.85	2.7	ug/L	Q	9/14/00	SW846 8260B
Toluene	< 1.1	1.1	3.5	ug/L		9/14/00	SW846 8260B
Vinyl chloride	< 0.19	0.19	0.61	ug/L		9/14/00	SW846 8260B
Xylenes, -m, -p	< 0.35	0.35	1.1	ug/L		9/14/00	SW846 8260B
Xylene, -o	< 0.28	0.28	0.89	ug/L		9/14/00	SW846 8260B
4-Bromofluorobenzene	85			%Recov		9/14/00	SW846 8260B
Dibromofluoromethane	90			%Recov		9/14/00	SW846 8260B
Toluene-d8	91			%Recov		9/14/00	SW846 8260B

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Field ID : P2A**

**Lab Sample Number : 805782-002**

**WI DNR LAB ID : 405132750**

**Client : EARTH TECH INC**

**Report Date : 12/5/00**

**Collection Date : 9/12/00**

**Matrix Type : WATER**

**Organic Results**

**SPECIAL VOLATILE LIST - WATER**

**Prep Method: SW846 5030B**

**Prep Date: 9/14/00**

**Analyst: HW**

<b>Analyte</b>	<b>Result</b>	<b>LOD</b>	<b>LOQ</b>	<b>EQL</b>	<b>Units</b>	<b>Code</b>	<b>Analysis Date</b>	<b>Analysis Method</b>
Benzene	< 0.29	0.29	0.92		ug/L		9/14/00	SW846 8260B
n-Butylbenzene	< 0.28	0.28	0.89		ug/L		9/14/00	SW846 8260B
Bromochloromethane	< 0.56	0.56	1.8		ug/L		9/14/00	SW846 8260B
Bromodichloromethane	< 0.30	0.30	0.96		ug/L		9/14/00	SW846 8260B
Bromobenzene	< 0.35	0.35	1.1		ug/L		9/14/00	SW846 8260B
Bromoform	< 0.24	0.24	0.76		ug/L		9/14/00	SW846 8260B
Bromomethane	< 0.62	0.62	2.0		ug/L		9/14/00	SW846 8260B
s-Butylbenzene	< 0.20	0.20	0.64		ug/L		9/14/00	SW846 8260B
t-Butylbenzene	< 0.23	0.23	0.73		ug/L		9/14/00	SW846 8260B
2-Chlorotoluene	< 0.19	0.19	0.61		ug/L		9/14/00	SW846 8260B
4-Chlorotoluene	< 0.21	0.21	0.67		ug/L		9/14/00	SW846 8260B
Carbon tetrachloride	< 0.22	0.22	0.70		ug/L		9/14/00	SW846 8260B
Chlorodibromomethane	< 2.8	2.8	8.9		ug/L		9/14/00	SW846 8260B
Chlorobenzene	< 0.19	0.19	0.61		ug/L		9/14/00	SW846 8260B
Chloroethane	< 0.46	0.46	1.5		ug/L		9/14/00	SW846 8260B
Chloroform	< 0.29	0.29	0.92		ug/L		9/14/00	SW846 8260B
Chloromethane	< 0.42	0.42	1.3		ug/L		9/14/00	SW846 8260B
1,1-Dichloroethane	37	0.17	0.54		ug/L		9/14/00	SW846 8260B
1,1-Dichloroethene	< 0.85	0.85	2.7		ug/L		9/14/00	SW846 8260B
1,1-Dichloropropene	< 0.46	0.46	1.5		ug/L		9/14/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.69	0.69	2.2		ug/L		9/14/00	SW846 8260B
1,2-Dibromoethane	< 0.42	0.42	1.3		ug/L		9/14/00	SW846 8260B
1,2-Dichlorobenzene	< 0.20	0.20	0.64		ug/L		9/14/00	SW846 8260B
1,2-Dichloroethane	< 0.21	0.21	0.67		ug/L		9/14/00	SW846 8260B
1,2-Dichloropropane	< 0.23	0.23	0.73		ug/L		9/14/00	SW846 8260B
1,3-Dichlorobenzene	< 0.12	0.12	0.38		ug/L		9/14/00	SW846 8260B
1,3-Dichloropropane	< 1.4	1.4	4.5		ug/L		9/14/00	SW846 8260B
1,4-Dichlorobenzene	< 0.31	0.31	0.99		ug/L		9/14/00	SW846 8260B
2,2-Dichloropropane	< 0.28	0.28	0.89		ug/L		9/14/00	SW846 8260B
Dichlorodifluoromethane	< 0.12	0.12	0.38		ug/L		9/14/00	SW846 8260B
cis-1,2-Dichloroethene	5.8	0.27	0.86		ug/L		9/14/00	SW846 8260B
Dibromomethane	< 0.22	0.22	0.70		ug/L		9/14/00	SW846 8260B

- Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Field ID : P2A

Lab Sample Number : 805782-002

WI DNR LAB ID : 405132750

Client : EARTH TECH INC

Report Date : 12/5/00

Collection Date : 9/12/00

Matrix Type : WATER

Diisopropyl ether	< 0.23	0.23	0.73	ug/L	9/14/00	SW846 8260B
trans-1,2-Dichloroethene	5.8	0.35	1.1	ug/L	9/14/00	SW846 8260B
Ethylbenzene	< 0.57	0.57	1.8	ug/L	9/14/00	SW846 8260B
Hexachlorobutadiene	< 0.43	0.43	1.4	ug/L	9/14/00	SW846 8260B
p-Isopropyltoluene	< 0.25	0.25	0.80	ug/L	9/14/00	SW846 8260B
Isopropylbenzene	< 0.19	0.19	0.61	ug/L	9/14/00	SW846 8260B
Methylene chloride	< 0.36	0.36	1.1	ug/L	9/14/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.20	0.20	0.64	ug/L	9/14/00	SW846 8260B
Naphthalene	< 0.27	0.27	0.86	ug/L	9/14/00	SW846 8260B
n-Propylbenzene	< 0.17	0.17	0.54	ug/L	9/14/00	SW846 8260B
Styrene	< 0.72	0.72	2.3	ug/L	9/14/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.30	0.30	0.96	ug/L	9/14/00	SW846 8260B
1,1,1-Trichloroethane	1.1	0.21	0.67	ug/L	9/14/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.22	0.22	0.70	ug/L	9/14/00	SW846 8260B
1,1,2-Trichloroethane	< 0.33	0.33	1.1	ug/L	9/14/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.30	0.30	0.96	ug/L	9/14/00	SW846 8260B
1,2,3-Trichloropropane	< 0.89	0.89	2.8	ug/L	9/14/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.24	0.24	0.76	ug/L	9/14/00	SW846 8260B
Fluorotrichloromethane	< 0.31	0.31	0.99	ug/L	9/14/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.34	0.34	1.1	ug/L	9/14/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.29	0.29	0.92	ug/L	9/14/00	SW846 8260B
1,1,2-Trichlorotrifluoroethane	< 0.54	0.54	1.7	ug/L	9/14/00	SW846 8260B
Trichloroethene	9.9	0.32	1.0	ug/L	9/14/00	SW846 8260B
Tetrachloroethene	< 0.85	0.85	2.7	ug/L	9/14/00	SW846 8260B
Toluene	< 1.1	1.1	3.5	ug/L	9/14/00	SW846 8260B
Vinyl chloride	2.5	0.19	0.61	ug/L	9/14/00	SW846 8260B
Xylenes, -m, -p	< 0.35	0.35	1.1	ug/L	9/14/00	SW846 8260B
Xylene, -o	< 0.28	0.28	0.89	ug/L	9/14/00	SW846 8260B
4-Bromofluorobenzene	87			%Recov	9/14/00	SW846 8260B
Dibromofluoromethane	92			%Recov	9/14/00	SW846 8260B
Toluene-d8	94			%Recov	9/14/00	SW846 8260B

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Client : EARTH TECH INC**

**Field ID : P2B**

**Report Date : 12/5/00**

**Lab Sample Number : 805782-003**

**Collection Date : 9/12/00**

**WI DNR LAB ID : 405132750**

**Matrix Type : WATER**

**Organic Results**

**SPECIAL VOLATILE LIST - WATER**

**Prep Method: SW846 5030B**

**Prep Date: 9/14/00**

**Analyst: RJN**

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 2.9	2.9	9.2		ug/L		9/19/00	SW846 8260B
n-Butylbenzene	< 2.8	2.8	8.9		ug/L		9/19/00	SW846 8260B
Bromochloromethane	< 5.6	5.6	18		ug/L		9/19/00	SW846 8260B
Bromodichloromethane	< 3.0	3.0	9.6		ug/L		9/19/00	SW846 8260B
Bromobenzene	< 3.5	3.5	11		ug/L		9/19/00	SW846 8260B
Bromoform	< 2.4	2.4	7.6		ug/L		9/19/00	SW846 8260B
Bromomethane	< 6.2	6.2	20		ug/L		9/19/00	SW846 8260B
s-Butylbenzene	< 2.0	2.0	6.4		ug/L		9/19/00	SW846 8260B
t-Butylbenzene	< 2.3	2.3	7.3		ug/L		9/19/00	SW846 8260B
2-Chlorotoluene	< 1.9	1.9	6.1		ug/L		9/19/00	SW846 8260B
4-Chlorotoluene	< 2.1	2.1	6.7		ug/L		9/19/00	SW846 8260B
Carbon tetrachloride	< 2.2	2.2	7.0		ug/L		9/19/00	SW846 8260B
Chlorodibromomethane	< 28	28	89		ug/L		9/19/00	SW846 8260B
Chlorobenzene	< 1.9	1.9	6.1		ug/L		9/19/00	SW846 8260B
Chloroethane	14	4.6	15		ug/L	Q	9/19/00	SW846 8260B
Chloroform	< 2.9	2.9	9.2		ug/L		9/19/00	SW846 8260B
Chloromethane	< 4.2	4.2	13		ug/L		9/19/00	SW846 8260B
1,1-Dichloroethane	24	1.7	5.4		ug/L		9/19/00	SW846 8260B
1,1-Dichloroethene	< 8.5	8.5	27		ug/L		9/19/00	SW846 8260B
1,1-Dichloropropene	< 4.6	4.6	15		ug/L		9/19/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 6.9	6.9	22		ug/L		9/19/00	SW846 8260B
1,2-Dibromoethane	< 4.2	4.2	13		ug/L		9/19/00	SW846 8260B
1,2-Dichlorobenzene	< 2.0	2.0	6.4		ug/L		9/19/00	SW846 8260B
1,2-Dichloroethane	< 2.1	2.1	6.7		ug/L		9/19/00	SW846 8260B
1,2-Dichloropropane	< 2.3	2.3	7.3		ug/L		9/19/00	SW846 8260B
1,3-Dichlorobenzene	< 1.2	1.2	3.8		ug/L		9/19/00	SW846 8260B
1,3-Dichloropropane	< 14	14	45		ug/L		9/19/00	SW846 8260B
1,4-Dichlorobenzene	< 3.1	3.1	9.9		ug/L		9/19/00	SW846 8260B
2,2-Dichloropropane	< 2.8	2.8	8.9		ug/L		9/19/00	SW846 8260B
Dichlorodifluoromethane	< 1.2	1.2	3.8		ug/L		9/19/00	SW846 8260B
cis-1,2-Dichloroethene	490	2.7	8.6		ug/L		9/19/00	SW846 8260B
cis-1,3-Dichloropropene	< 2.3	2.3	7.3		ug/L		9/19/00	SW846 8260B



## - Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Field ID : P2B

Lab Sample Number : 805782-003

WI DNR LAB ID : 405132750

Client : EARTH TECH INC

Report Date : 12/5/00

Collection Date : 9/12/00

Matrix Type : WATER

Dibromomethane	< 2.2	2.2	7.0	ug/L	9/19/00	SW846 8260B
Diisopropyl ether	< 2.3	2.3	7.3	ug/L	9/19/00	SW846 8260B
trans-1,2-Dichloroethene	21	3.5	11	ug/L	9/19/00	SW846 8260B
trans-1,3-Dichloropropene	< 2.3	2.3	7.3	ug/L	9/19/00	SW846 8260B
Ethylbenzene	< 5.7	5.7	18	ug/L	9/19/00	SW846 8260B
Hexachlorobutadiene	< 4.3	4.3	14	ug/L	9/19/00	SW846 8260B
p-isopropyltoluene	< 2.5	2.5	8.0	ug/L	9/19/00	SW846 8260B
Isopropylbenzene	< 1.9	1.9	6.1	ug/L	9/19/00	SW846 8260B
Methylene chloride	< 3.6	3.6	11	ug/L	9/19/00	SW846 8260B
Methyl-tert-butyl-ether	< 2.0	2.0	6.4	ug/L	9/19/00	SW846 8260B
Naphthalene	< 2.7	2.7	8.6	ug/L	9/19/00	SW846 8260B
n-Propylbenzene	< 1.7	1.7	5.4	ug/L	9/19/00	SW846 8260B
Styrene	< 7.2	7.2	23	ug/L	9/19/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 3.0	3.0	9.6	ug/L	9/19/00	SW846 8260B
1,1,1-Trichloroethane	< 2.1	2.1	6.7	ug/L	9/19/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 2.2	2.2	7.0	ug/L	9/19/00	SW846 8260B
1,1,2-Trichloroethane	< 3.3	3.3	11	ug/L	9/19/00	SW846 8260B
1,2,3-Trichlorobenzene	< 3.0	3.0	9.6	ug/L	9/19/00	SW846 8260B
1,2,3-Trichloropropane	< 8.9	8.9	28	ug/L	9/19/00	SW846 8260B
1,2,4-Trichlorobenzene	< 2.4	2.4	7.6	ug/L	9/19/00	SW846 8260B
Fluorotrichloromethane	< 3.1	3.1	9.9	ug/L	9/19/00	SW846 8260B
1,2,4-Trimethylbenzene	< 3.4	3.4	11	ug/L	9/19/00	SW846 8260B
1,3,5-Trimethylbenzene	< 2.9	2.9	9.2	ug/L	9/19/00	SW846 8260B
1,1,2-Trichlorotrifluoroethane	< 5.4	5.4	17	ug/L	9/19/00	SW846 8260B
Trichloroethene	170	3.2	10	ug/L	9/19/00	SW846 8260B
Tetrachloroethene	< 8.5	8.5	27	ug/L	9/19/00	SW846 8260B
Toluene	< 11	11	35	ug/L	9/19/00	SW846 8260B
Vinyl chloride	340	1.9	6.1	ug/L	9/19/00	SW846 8260B
Xylenes, -m, -p	< 3.5	3.5	11	ug/L	9/19/00	SW846 8260B
Xylene, -o	< 2.8	2.8	8.9	ug/L	9/19/00	SW846 8260B
4-Bromofluorobenzene	87			%Recov	9/19/00	SW846 8260B
Dibromofluoromethane	91			%Recov	9/19/00	SW846 8260B
Toluene-d8	93			%Recov	9/19/00	SW846 8260B

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Client : EARTH TECH INC**

**Field ID : P2C**

**Report Date : 12/5/00**

**Lab Sample Number : 805782-004**

**Collection Date : 9/12/00**

**WI DNR LAB ID : 405132750**

**Matrix Type : WATER**

**Organic Results**

**SPECIAL VOLATILE LIST - WATER**

**Prep Method: SW846 5030B Prep Date: 9/14/00 Analyst: RJN**

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 2.9	2.9	9.2		ug/L		9/19/00	SW846 8260B
n-Butylbenzene	< 2.8	2.8	8.9		ug/L		9/19/00	SW846 8260B
Bromochloromethane	< 5.6	5.6	18		ug/L		9/19/00	SW846 8260B
Bromodichloromethane	< 3.0	3.0	9.6		ug/L		9/19/00	SW846 8260B
Bromobenzene	< 3.5	3.5	11		ug/L		9/19/00	SW846 8260B
Bromoform	< 2.4	2.4	7.6		ug/L		9/19/00	SW846 8260B
Bromomethane	< 6.2	6.2	20		ug/L		9/19/00	SW846 8260B
s-Butylbenzene	< 2.0	2.0	6.4		ug/L		9/19/00	SW846 8260B
t-Butylbenzene	< 2.3	2.3	7.3		ug/L		9/19/00	SW846 8260B
2-Chlorotoluene	< 1.9	1.9	6.1		ug/L		9/19/00	SW846 8260B
4-Chlorotoluene	< 2.1	2.1	6.7		ug/L		9/19/00	SW846 8260B
Carbon tetrachloride	< 2.2	2.2	7.0		ug/L		9/19/00	SW846 8260B
Chlorodibromomethane	< 28	28	89		ug/L		9/19/00	SW846 8260B
Chlorobenzene	< 1.9	1.9	6.1		ug/L		9/19/00	SW846 8260B
Chloroethane	17	4.6	15		ug/L		9/19/00	SW846 8260B
Chloroform	< 2.9	2.9	9.2		ug/L		9/19/00	SW846 8260B
Chloromethane	< 4.2	4.2	13		ug/L		9/19/00	SW846 8260B
1,1-Dichloroethane	23	1.7	5.4		ug/L		9/19/00	SW846 8260B
1,1-Dichloroethene	< 8.5	8.5	27		ug/L		9/19/00	SW846 8260B
1,1-Dichloropropene	< 4.6	4.6	15		ug/L		9/19/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 6.9	6.9	22		ug/L		9/19/00	SW846 8260B
1,2-Dibromoethane	< 4.2	4.2	13		ug/L		9/19/00	SW846 8260B
1,2-Dichlorobenzene	< 2.0	2.0	6.4		ug/L		9/19/00	SW846 8260B
1,2-Dichloroethane	< 2.1	2.1	6.7		ug/L		9/19/00	SW846 8260B
1,2-Dichloropropane	< 2.3	2.3	7.3		ug/L		9/19/00	SW846 8260B
1,3-Dichlorobenzene	< 1.2	1.2	3.8		ug/L		9/19/00	SW846 8260B
1,3-Dichloropropane	< 14	14	45		ug/L		9/19/00	SW846 8260B
1,4-Dichlorobenzene	< 3.1	3.1	9.9		ug/L		9/19/00	SW846 8260B
2,2-Dichloropropane	< 2.8	2.8	8.9		ug/L		9/19/00	SW846 8260B
Dichlorodifluoromethane	< 1.2	1.2	3.8		ug/L		9/19/00	SW846 8260B
cis-1,2-Dichloroethene	500	2.7	8.6		ug/L		9/19/00	SW846 8260B
cis-1,3-Dichloropropene	< 2.3	2.3	7.3		ug/L		9/19/00	SW846 8260B

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Client : EARTH TECH INC**

**Field ID : P2C**

**Report Date : 12/5/00**

**Lab Sample Number : 805782-004**

**Collection Date : 9/12/00**

**WI DNR LAB ID : 405132750**

**Matrix Type : WATER**

Dibromomethane	< 2.2	2.2	7.0	ug/L	9/19/00	SW846 8260B
Diisopropyl ether	< 2.3	2.3	7.3	ug/L	9/19/00	SW846 8260B
trans-1,2-Dichloroethene	14	3.5	11	ug/L	9/19/00	SW846 8260B
trans-1,3-Dichloropropene	< 2.3	2.3	7.3	ug/L	9/19/00	SW846 8260B
Ethylbenzene	< 5.7	5.7	18	ug/L	9/19/00	SW846 8260B
Hexachlorobutadiene	< 4.3	4.3	14	ug/L	9/19/00	SW846 8260B
p-Isopropyltoluene	< 2.5	2.5	8.0	ug/L	9/19/00	SW846 8260B
Isopropylbenzene	< 1.9	1.9	6.1	ug/L	9/19/00	SW846 8260B
Methylene chloride	< 3.6	3.6	11	ug/L	9/19/00	SW846 8260B
Methyl-tert-butyl-ether	< 2.0	2.0	6.4	ug/L	9/19/00	SW846 8260B
Naphthalene	< 2.7	2.7	8.6	ug/L	9/19/00	SW846 8260B
n-Propylbenzene	< 1.7	1.7	5.4	ug/L	9/19/00	SW846 8260B
Styrene	< 7.2	7.2	23	ug/L	9/19/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 3.0	3.0	9.6	ug/L	9/19/00	SW846 8260B
1,1,1-Trichloroethane	< 2.1	2.1	6.7	ug/L	9/19/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 2.2	2.2	7.0	ug/L	9/19/00	SW846 8260B
1,1,2-Trichloroethane	< 3.3	3.3	11	ug/L	9/19/00	SW846 8260B
1,2,3-Trichlorobenzene	< 3.0	3.0	9.6	ug/L	9/19/00	SW846 8260B
1,2,3-Trichloropropane	< 8.9	8.9	28	ug/L	9/19/00	SW846 8260B
1,2,4-Trichlorobenzene	< 2.4	2.4	7.6	ug/L	9/19/00	SW846 8260B
Fluorotrichloromethane	< 3.1	3.1	9.9	ug/L	9/19/00	SW846 8260B
1,2,4-Trimethylbenzene	< 3.4	3.4	11	ug/L	9/19/00	SW846 8260B
1,3,5-Trimethylbenzene	< 2.9	2.9	9.2	ug/L	9/19/00	SW846 8260B
1,1,2-Trichlorotrifluoroethane	< 5.4	5.4	17	ug/L	9/19/00	SW846 8260B
Trichloroethene	170	3.2	10	ug/L	9/19/00	SW846 8260B
Tetrachloroethene	< 8.5	8.5	27	ug/L	9/19/00	SW846 8260B
Toluene	< 11	11	35	ug/L	9/19/00	SW846 8260B
Vinyl chloride	360	1.9	6.1	ug/L	9/19/00	SW846 8260B
Xylenes, -m, -p	< 3.5	3.5	11	ug/L	9/19/00	SW846 8260B
Xylene, -o	< 2.8	2.8	8.9	ug/L	9/19/00	SW846 8260B
4-Bromofluorobenzene	86			%Recov	9/19/00	SW846 8260B
Dibromofluoromethane	94			%Recov	9/19/00	SW846 8260B
Toluene-d8	92			%Recov	9/19/00	SW846 8260B

**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Client : EARTH TECH INC

Field ID : P4B

Report Date : 12/5/00

Lab Sample Number : 805782-005

Collection Date : 9/12/00

WI DNR LAB ID : 405132750

Matrix Type : WATER

**Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030B

Prep Date: 9/14/00

Analyst: HW

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.29	0.29	0.92		ug/L		9/14/00	SW846 8260B
n-Butylbenzene	< 0.28	0.28	0.89		ug/L		9/14/00	SW846 8260B
Bromochloromethane	< 0.56	0.56	1.8		ug/L		9/14/00	SW846 8260B
Bromodichloromethane	< 0.30	0.30	0.96		ug/L		9/14/00	SW846 8260B
Bromobenzene	< 0.35	0.35	1.1		ug/L		9/14/00	SW846 8260B
Bromoform	< 0.24	0.24	0.76		ug/L		9/14/00	SW846 8260B
Bromomethane	< 0.62	0.62	2.0		ug/L		9/14/00	SW846 8260B
s-Butylbenzene	< 0.20	0.20	0.64		ug/L		9/14/00	SW846 8260B
t-Butylbenzene	< 0.23	0.23	0.73		ug/L		9/14/00	SW846 8260B
2-Chlorotoluene	< 0.19	0.19	0.61		ug/L		9/14/00	SW846 8260B
4-Chlorotoluene	< 0.21	0.21	0.67		ug/L		9/14/00	SW846 8260B
Carbon tetrachloride	< 0.22	0.22	0.70		ug/L		9/14/00	SW846 8260B
Chlorodibromomethane	< 2.8	2.8	8.9		ug/L		9/14/00	SW846 8260B
Chlorobenzene	< 0.19	0.19	0.61		ug/L		9/14/00	SW846 8260B
Chloroethane	< 0.46	0.46	1.5		ug/L		9/14/00	SW846 8260B
Chloroform	< 0.29	0.29	0.92		ug/L		9/14/00	SW846 8260B
Chloromethane	< 0.42	0.42	1.3		ug/L		9/14/00	SW846 8260B
1,1-Dichloroethane	< 0.17	0.17	0.54		ug/L		9/14/00	SW846 8260B
1,1-Dichloroethene	< 0.85	0.85	2.7		ug/L		9/14/00	SW846 8260B
1,1-Dichloropropene	< 0.46	0.46	1.5		ug/L		9/14/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.69	0.69	2.2		ug/L		9/14/00	SW846 8260B
1,2-Dibromoethane	< 0.42	0.42	1.3		ug/L		9/14/00	SW846 8260B
1,2-Dichlorobenzene	< 0.20	0.20	0.64		ug/L		9/14/00	SW846 8260B
1,2-Dichloroethane	< 0.21	0.21	0.67		ug/L		9/14/00	SW846 8260B
1,2-Dichloropropane	< 0.23	0.23	0.73		ug/L		9/14/00	SW846 8260B
1,3-Dichlorobenzene	< 0.12	0.12	0.38		ug/L		9/14/00	SW846 8260B
1,3-Dichloropropane	< 1.4	1.4	4.5		ug/L		9/14/00	SW846 8260B
1,4-Dichlorobenzene	< 0.31	0.31	0.99		ug/L		9/14/00	SW846 8260B
2,2-Dichloropropane	< 0.28	0.28	0.89		ug/L		9/14/00	SW846 8260B
Dichlorodifluoromethane	< 0.12	0.12	0.38		ug/L		9/14/00	SW846 8260B
cis-1,2-Dichloroethene	4.2	0.27	0.86		ug/L		9/14/00	SW846 8260B
Dibromomethane	< 0.22	0.22	0.70		ug/L		9/14/00	SW846 8260B

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Client : EARTH TECH INC**

**Field ID : P4B**

**Report Date : 12/5/00**

**Lab Sample Number : 805782-005**

**Collection Date : 9/12/00**

**WI DNR LAB ID : 405132750**

**Matrix Type : WATER**

Diisopropyl ether	< 0.23	0.23	0.73	ug/L	9/14/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.35	0.35	1.1	ug/L	9/14/00	SW846 8260B
Ethylbenzene	< 0.57	0.57	1.8	ug/L	9/14/00	SW846 8260B
Hexachlorobutadiene	< 0.43	0.43	1.4	ug/L	9/14/00	SW846 8260B
p-Isopropyltoluene	< 0.25	0.25	0.80	ug/L	9/14/00	SW846 8260B
Isopropylbenzene	< 0.19	0.19	0.61	ug/L	9/14/00	SW846 8260B
Methylene chloride	< 0.36	0.36	1.1	ug/L	9/14/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.20	0.20	0.64	ug/L	9/14/00	SW846 8260B
Naphthalene	< 0.27	0.27	0.86	ug/L	9/14/00	SW846 8260B
n-Propylbenzene	< 0.17	0.17	0.54	ug/L	9/14/00	SW846 8260B
Styrene	< 0.72	0.72	2.3	ug/L	9/14/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.30	0.30	0.96	ug/L	9/14/00	SW846 8260B
1,1,1-Trichloroethane	< 0.21	0.21	0.67	ug/L	9/14/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.22	0.22	0.70	ug/L	9/14/00	SW846 8260B
1,1,2-Trichloroethane	< 0.33	0.33	1.1	ug/L	9/14/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.30	0.30	0.96	ug/L	9/14/00	SW846 8260B
1,2,3-Trichloropropane	< 0.89	0.89	2.8	ug/L	9/14/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.24	0.24	0.76	ug/L	9/14/00	SW846 8260B
Fluorotrichloromethane	< 0.31	0.31	0.99	ug/L	9/14/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.34	0.34	1.1	ug/L	9/14/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.29	0.29	0.92	ug/L	9/14/00	SW846 8260B
1,1,2-Trichlorotrifluoroethane	< 0.54	0.54	1.7	ug/L	9/14/00	SW846 8260B
Trichloroethene	5.5	0.32	1.0	ug/L	9/14/00	SW846 8260B
Tetrachloroethene	< 0.85	0.85	2.7	ug/L	9/14/00	SW846 8260B
Toluene	< 1.1	1.1	3.5	ug/L	9/14/00	SW846 8260B
Vinyl chloride	1.9	0.19	0.61	ug/L	9/14/00	SW846 8260B
Xylenes, -m, -p	< 0.35	0.35	1.1	ug/L	9/14/00	SW846 8260B
Xylene, -o	< 0.28	0.28	0.89	ug/L	9/14/00	SW846 8260B
4-Bromofluorobenzene	87			%Recov	9/14/00	SW846 8260B
Dibromofluoromethane	93			%Recov	9/14/00	SW846 8260B
Toluene-d8	93			%Recov	9/14/00	SW846 8260B

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Field ID : FIELD BLANK**

**Lab Sample Number : 805782-006**

**WI DNR LAB ID : 405132750**

**Client : EARTH TECH INC**

**Report Date : 12/5/00**

**Collection Date : 9/12/00**

**Matrix Type : WATER**

**Organic Results**

**SPECIAL VOLATILE LIST - WATER**

**Prep Method: SW846 5030B Prep Date: 9/14/00 Analyst: HW**

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.29	0.29	0.92		ug/L		9/14/00	SW846 8260B
n-Butylbenzene	< 0.28	0.28	0.89		ug/L		9/14/00	SW846 8260B
Bromochloromethane	< 0.56	0.56	1.8		ug/L		9/14/00	SW846 8260B
Bromodichloromethane	1.5	0.30	0.96		ug/L		9/14/00	SW846 8260B
Bromobenzene	< 0.35	0.35	1.1		ug/L		9/14/00	SW846 8260B
Bromoform	< 0.24	0.24	0.76		ug/L		9/14/00	SW846 8260B
Bromomethane	< 0.62	0.62	2.0		ug/L		9/14/00	SW846 8260B
s-Butylbenzene	< 0.20	0.20	0.64		ug/L		9/14/00	SW846 8260B
t-Butylbenzene	< 0.23	0.23	0.73		ug/L		9/14/00	SW846 8260B
2-Chlorotoluene	< 0.19	0.19	0.61		ug/L		9/14/00	SW846 8260B
4-Chlorotoluene	< 0.21	0.21	0.67		ug/L		9/14/00	SW846 8260B
Carbon tetrachloride	< 0.22	0.22	0.70		ug/L		9/14/00	SW846 8260B
Chlorodibromomethane	< 2.8	2.8	8.9		ug/L		9/14/00	SW846 8260B
Chlorobenzene	< 0.19	0.19	0.61		ug/L		9/14/00	SW846 8260B
Chloroethane	< 0.46	0.46	1.5		ug/L		9/14/00	SW846 8260B
Chloroform	3.2	0.29	0.92		ug/L		9/14/00	SW846 8260B
Chloromethane	< 0.42	0.42	1.3		ug/L		9/14/00	SW846 8260B
1,1-Dichloroethane	< 0.17	0.17	0.54		ug/L		9/14/00	SW846 8260B
1,1-Dichloroethene	< 0.85	0.85	2.7		ug/L		9/14/00	SW846 8260B
1,1-Dichloropropene	< 0.46	0.46	1.5		ug/L		9/14/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.69	0.69	2.2		ug/L		9/14/00	SW846 8260B
1,2-Dibromoethane	< 0.42	0.42	1.3		ug/L		9/14/00	SW846 8260B
1,2-Dichlorobenzene	< 0.20	0.20	0.64		ug/L		9/14/00	SW846 8260B
1,2-Dichloroethane	< 0.21	0.21	0.67		ug/L		9/14/00	SW846 8260B
1,2-Dichloropropane	< 0.23	0.23	0.73		ug/L		9/14/00	SW846 8260B
1,3-Dichlorobenzene	< 0.12	0.12	0.38		ug/L		9/14/00	SW846 8260B
1,3-Dichloropropane	< 1.4	1.4	4.5		ug/L		9/14/00	SW846 8260B
1,4-Dichlorobenzene	< 0.31	0.31	0.99		ug/L		9/14/00	SW846 8260B
2,2-Dichloropropane	< 0.28	0.28	0.89		ug/L		9/14/00	SW846 8260B
Dichlorodifluoromethane	< 0.12	0.12	0.38		ug/L		9/14/00	SW846 8260B
cis-1,2-Dichloroethene	< 0.27	0.27	0.86		ug/L		9/14/00	SW846 8260B
Dibromomethane	< 0.22	0.22	0.70		ug/L		9/14/00	SW846 8260B

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Field ID : FIELD BLANK**

**Lab Sample Number : 805782-006**

**WI DNR LAB ID : 405132750**

**Client : EARTH TECH INC**

**Report Date : 12/5/00**

**Collection Date : 9/12/00**

**Matrix Type : WATER**

Diisopropyl ether	< 0.23	0.23	0.73	ug/L	9/14/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.35	0.35	1.1	ug/L	9/14/00	SW846 8260B
Ethylbenzene	< 0.57	0.57	1.8	ug/L	9/14/00	SW846 8260B
Hexachlorobutadiene	< 0.43	0.43	1.4	ug/L	9/14/00	SW846 8260B
p-Isopropyltoluene	< 0.25	0.25	0.80	ug/L	9/14/00	SW846 8260B
Isopropylbenzene	< 0.19	0.19	0.61	ug/L	9/14/00	SW846 8260B
Methylene chloride	< 0.36	0.36	1.1	ug/L	9/14/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.20	0.20	0.64	ug/L	9/14/00	SW846 8260B
Naphthalene	< 0.27	0.27	0.86	ug/L	9/14/00	SW846 8260B
n-Propylbenzene	< 0.17	0.17	0.54	ug/L	9/14/00	SW846 8260B
Styrene	< 0.72	0.72	2.3	ug/L	9/14/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.30	0.30	0.96	ug/L	9/14/00	SW846 8260B
1,1,1-Trichloroethane	< 0.21	0.21	0.67	ug/L	9/14/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.22	0.22	0.70	ug/L	9/14/00	SW846 8260B
1,1,2-Trichloroethane	< 0.33	0.33	1.1	ug/L	9/14/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.30	0.30	0.96	ug/L	9/14/00	SW846 8260B
1,2,3-Trichloropropane	< 0.89	0.89	2.8	ug/L	9/14/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.24	0.24	0.76	ug/L	9/14/00	SW846 8260B
Fluorotrichloromethane	< 0.31	0.31	0.99	ug/L	9/14/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.34	0.34	1.1	ug/L	9/14/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.29	0.29	0.92	ug/L	9/14/00	SW846 8260B
1,1,2-Trichlorotrifluoroethane	< 0.54	0.54	1.7	ug/L	9/14/00	SW846 8260B
Trichloroethene	< 0.32	0.32	1.0	ug/L	9/14/00	SW846 8260B
Tetrachloroethene	< 0.85	0.85	2.7	ug/L	9/14/00	SW846 8260B
Toluene	< 1.1	1.1	3.5	ug/L	9/14/00	SW846 8260B
Vinyl chloride	< 0.19	0.19	0.61	ug/L	9/14/00	SW846 8260B
Xylenes, -m, -p	< 0.35	0.35	1.1	ug/L	9/14/00	SW846 8260B
Xylene, -o	< 0.28	0.28	0.89	ug/L	9/14/00	SW846 8260B
4-Bromofluorobenzene	88			%Recov	9/14/00	SW846 8260B
Dibromofluoromethane	91			%Recov	9/14/00	SW846 8260B
Toluene-d8	93			%Recov	9/14/00	SW846 8260B



**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Client : EARTH TECH INC**

**Field ID : TRIP BLK**

**Report Date : 12/5/00**

**Lab Sample Number : 805782-007**

**Collection Date : 9/12/00**

**WI DNR LAB ID : 405132750**

**Matrix Type : WATER**

**Organic Results**

**SPECIAL VOLATILE LIST - WATER**

**Prep Method: SW846 5030B    Prep Date: 9/14/00    Analyst: HW**

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.29	0.29	0.92		ug/L		9/15/00	SW846 8260B
n-Butylbenzene	< 0.28	0.28	0.89		ug/L		9/15/00	SW846 8260B
Bromochloromethane	< 0.56	0.56	1.8		ug/L		9/15/00	SW846 8260B
Bromodichloromethane	< 0.30	0.30	0.96		ug/L		9/15/00	SW846 8260B
Bromobenzene	< 0.35	0.35	1.1		ug/L		9/15/00	SW846 8260B
Bromoform	< 0.24	0.24	0.76		ug/L		9/15/00	SW846 8260B
Bromomethane	< 0.62	0.62	2.0		ug/L		9/15/00	SW846 8260B
s-Butylbenzene	< 0.20	0.20	0.64		ug/L		9/15/00	SW846 8260B
t-Butylbenzene	< 0.23	0.23	0.73		ug/L		9/15/00	SW846 8260B
2-Chlorotoluene	< 0.19	0.19	0.61		ug/L		9/15/00	SW846 8260B
4-Chlorotoluene	< 0.21	0.21	0.67		ug/L		9/15/00	SW846 8260B
Carbon tetrachloride	< 0.22	0.22	0.70		ug/L		9/15/00	SW846 8260B
Chlorodibromomethane	< 2.8	2.8	8.9		ug/L		9/15/00	SW846 8260B
Chlorobenzene	< 0.19	0.19	0.61		ug/L		9/15/00	SW846 8260B
Chloroethane	< 0.46	0.46	1.5		ug/L		9/15/00	SW846 8260B
Chloroform	< 0.29	0.29	0.92		ug/L		9/15/00	SW846 8260B
Chloromethane	< 0.42	0.42	1.3		ug/L		9/15/00	SW846 8260B
1,1-Dichloroethane	< 0.17	0.17	0.54		ug/L		9/15/00	SW846 8260B
1,1-Dichloroethene	< 0.85	0.85	2.7		ug/L		9/15/00	SW846 8260B
1,1-Dichloropropene	< 0.46	0.46	1.5		ug/L		9/15/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.69	0.69	2.2		ug/L		9/15/00	SW846 8260B
1,2-Dibromoethane	< 0.42	0.42	1.3		ug/L		9/15/00	SW846 8260B
1,2-Dichlorobenzene	< 0.20	0.20	0.64		ug/L		9/15/00	SW846 8260B
1,2-Dichloroethane	< 0.21	0.21	0.67		ug/L		9/15/00	SW846 8260B
1,2-Dichloropropane	< 0.23	0.23	0.73		ug/L		9/15/00	SW846 8260B
1,3-Dichlorobenzene	< 0.12	0.12	0.38		ug/L		9/15/00	SW846 8260B
1,3-Dichloropropane	< 1.4	1.4	4.5		ug/L		9/15/00	SW846 8260B
1,4-Dichlorobenzene	< 0.31	0.31	0.99		ug/L		9/15/00	SW846 8260B
2,2-Dichloropropane	< 0.28	0.28	0.89		ug/L		9/15/00	SW846 8260B
Dichlorodifluoromethane	< 0.12	0.12	0.38		ug/L		9/15/00	SW846 8260B
cis-1,2-Dichloroethene	< 0.27	0.27	0.86		ug/L		9/15/00	SW846 8260B
Dibromomethane	< 0.22	0.22	0.70		ug/L		9/15/00	SW846 8260B

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Field ID : TRIP BLK**

**Lab Sample Number : 805782-007**

**WI DNR LAB ID : 405132750**

**Client : EARTH TECH INC**

**Report Date : 12/5/00**

**Collection Date : 9/12/00**

**Matrix Type : WATER**

Diisopropyl ether	< 0.23	0.23	0.73	ug/L	9/15/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.35	0.35	1.1	ug/L	9/15/00	SW846 8260B
Ethylbenzene	< 0.57	0.57	1.8	ug/L	9/15/00	SW846 8260B
Hexachlorobutadiene	< 0.43	0.43	1.4	ug/L	9/15/00	SW846 8260B
p-Isopropyltoluene	< 0.25	0.25	0.80	ug/L	9/15/00	SW846 8260B
Isopropylbenzene	< 0.19	0.19	0.61	ug/L	9/15/00	SW846 8260B
Methylene chloride	10	0.36	1.1	ug/L	9/15/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.20	0.20	0.64	ug/L	9/15/00	SW846 8260B
Naphthalene	< 0.27	0.27	0.86	ug/L	9/15/00	SW846 8260B
n-Propylbenzene	< 0.17	0.17	0.54	ug/L	9/15/00	SW846 8260B
Styrene	< 0.72	0.72	2.3	ug/L	9/15/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.30	0.30	0.96	ug/L	9/15/00	SW846 8260B
1,1,1-Trichloroethane	< 0.21	0.21	0.67	ug/L	9/15/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.22	0.22	0.70	ug/L	9/15/00	SW846 8260B
1,1,2-Trichloroethane	< 0.33	0.33	1.1	ug/L	9/15/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.30	0.30	0.96	ug/L	9/15/00	SW846 8260B
1,2,3-Trichloropropane	< 0.89	0.89	2.8	ug/L	9/15/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.24	0.24	0.76	ug/L	9/15/00	SW846 8260B
Fluorotrichloromethane	1.8	0.31	0.99	ug/L	9/15/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.34	0.34	1.1	ug/L	9/15/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.29	0.29	0.92	ug/L	9/15/00	SW846 8260B
1,1,2-Trichlorotrifluoroethane	< 0.54	0.54	1.7	ug/L	9/15/00	SW846 8260B
Trichloroethene	< 0.32	0.32	1.0	ug/L	9/15/00	SW846 8260B
Tetrachloroethene	< 0.85	0.85	2.7	ug/L	9/15/00	SW846 8260B
Toluene	< 1.1	1.1	3.5	ug/L	9/15/00	SW846 8260B
Vinyl chloride	< 0.19	0.19	0.61	ug/L	9/15/00	SW846 8260B
Xylenes, -m, -p	< 0.35	0.35	1.1	ug/L	9/15/00	SW846 8260B
Xylene, -o	< 0.28	0.28	0.89	ug/L	9/15/00	SW846 8260B
4-Bromofluorobenzene	114			%Recov	9/15/00	SW846 8260B
Dibromofluoromethane	124			%Recov	9/15/00	SW846 8260B
Toluene-d8	119			%Recov	9/15/00	SW846 8260B

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Client : EARTH TECH INC**

**Field ID : LH1**

**Report Date : 12/5/00**

**Lab Sample Number : 805784-002**

**Collection Date : 9/13/00**

**WI DNR LAB ID : 405132750**

**Matrix Type : WATER**

**Organic Results**

**SPECIAL VOLATILE LIST - WATER**

**Prep Method: SW846 5030B**

**Prep Date: 9/15/00**

**Analyst: HW**

<b>Analyte</b>	<b>Result</b>	<b>LOD</b>	<b>LOQ</b>	<b>EQL</b>	<b>Units</b>	<b>Code</b>	<b>Analysis Date</b>	<b>Analysis Method</b>
Benzene	0.31	0.29	0.92		ug/L	Q	9/15/00	SW846 8260B
n-Butylbenzene	< 0.28	0.28	0.89		ug/L		9/15/00	SW846 8260B
Bromochloromethane	< 0.56	0.56	1.8		ug/L		9/15/00	SW846 8260B
Bromodichloromethane	< 0.30	0.30	0.96		ug/L		9/15/00	SW846 8260B
Bromobenzene	< 0.35	0.35	1.1		ug/L		9/15/00	SW846 8260B
Bromoform	< 0.24	0.24	0.76		ug/L		9/15/00	SW846 8260B
Bromomethane	< 0.62	0.62	2.0		ug/L		9/15/00	SW846 8260B
s-Butylbenzene	< 0.20	0.20	0.64		ug/L		9/15/00	SW846 8260B
t-Butylbenzene	< 0.23	0.23	0.73		ug/L		9/15/00	SW846 8260B
2-Chlorotoluene	< 0.19	0.19	0.61		ug/L		9/15/00	SW846 8260B
4-Chlorotoluene	< 0.21	0.21	0.67		ug/L		9/15/00	SW846 8260B
Carbon tetrachloride	< 0.22	0.22	0.70		ug/L		9/15/00	SW846 8260B
Chlorodibromomethane	< 2.8	2.8	8.9		ug/L		9/15/00	SW846 8260B
Chlorobenzene	< 0.19	0.19	0.61		ug/L		9/15/00	SW846 8260B
Chloroethane	2.5	0.46	1.5		ug/L		9/15/00	SW846 8260B
Chloroform	< 0.29	0.29	0.92		ug/L		9/15/00	SW846 8260B
Chloromethane	< 0.42	0.42	1.3		ug/L		9/15/00	SW846 8260B
1,1-Dichloroethane	6.2	0.17	0.54		ug/L		9/15/00	SW846 8260B
1,1-Dichloroethene	1.5	0.85	2.7		ug/L	Q	9/15/00	SW846 8260B
1,1-Dichloropropene	< 0.46	0.46	1.5		ug/L		9/15/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.69	0.69	2.2		ug/L		9/15/00	SW846 8260B
1,2-Dibromoethane	< 0.42	0.42	1.3		ug/L		9/15/00	SW846 8260B
1,2-Dichlorobenzene	< 0.20	0.20	0.64		ug/L		9/15/00	SW846 8260B
1,2-Dichloroethane	< 0.21	0.21	0.67		ug/L		9/15/00	SW846 8260B
1,2-Dichloropropane	< 0.23	0.23	0.73		ug/L		9/15/00	SW846 8260B
1,3-Dichlorobenzene	< 0.12	0.12	0.38		ug/L		9/15/00	SW846 8260B
1,3-Dichloropropane	< 1.4	1.4	4.5		ug/L		9/15/00	SW846 8260B
1,4-Dichlorobenzene	< 0.31	0.31	0.99		ug/L		9/15/00	SW846 8260B
2,2-Dichloropropane	< 0.28	0.28	0.89		ug/L		9/15/00	SW846 8260B
Dichlorodifluoromethane	< 0.12	0.12	0.38		ug/L		9/15/00	SW846 8260B
cis-1,2-Dichloroethene	140	0.27	0.86		ug/L		9/15/00	SW846 8260B
Dibromomethane	< 0.22	0.22	0.70		ug/L		9/15/00	SW846 8260B

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Field ID : LH1**

**Lab Sample Number : 805784-002**

**WI DNR LAB ID : 405132750**

**Client : EARTH TECH INC**

**Report Date : 12/5/00**

**Collection Date : 9/13/00**

**Matrix Type : WATER**

Diisopropyl ether	< 0.23	0.23	0.73	ug/L		9/15/00	SW846 8260B
trans-1,2-Dichloroethene	4.8	0.35	1.1	ug/L		9/15/00	SW846 8260B
Ethylbenzene	< 0.57	0.57	1.8	ug/L		9/15/00	SW846 8260B
Hexachlorobutadiene	< 0.43	0.43	1.4	ug/L		9/15/00	SW846 8260B
p-Isopropyltoluene	< 0.25	0.25	0.80	ug/L		9/15/00	SW846 8260B
Isopropylbenzene	< 0.19	0.19	0.61	ug/L		9/15/00	SW846 8260B
Methylene chloride	0.39	0.36	1.1	ug/L	Q	9/15/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.20	0.20	0.64	ug/L		9/15/00	SW846 8260B
Naphthalene	< 0.27	0.27	0.86	ug/L		9/15/00	SW846 8260B
n-Propylbenzene	< 0.17	0.17	0.54	ug/L		9/15/00	SW846 8260B
Styrene	< 0.72	0.72	2.3	ug/L		9/15/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.30	0.30	0.96	ug/L		9/15/00	SW846 8260B
1,1,1-Trichloroethane	< 0.21	0.21	0.67	ug/L		9/15/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.22	0.22	0.70	ug/L		9/15/00	SW846 8260B
1,1,2-Trichloroethane	< 0.33	0.33	1.1	ug/L		9/15/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.30	0.30	0.96	ug/L		9/15/00	SW846 8260B
1,2,3-Trichloropropane	< 0.89	0.89	2.8	ug/L		9/15/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.24	0.24	0.76	ug/L		9/15/00	SW846 8260B
Fluorotrichloromethane	< 0.31	0.31	0.99	ug/L		9/15/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.34	0.34	1.1	ug/L		9/15/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.29	0.29	0.92	ug/L		9/15/00	SW846 8260B
1,1,2-Trichlorotrifluoroethane	< 0.54	0.54	1.7	ug/L		9/15/00	SW846 8260B
Trichloroethene	27	0.32	1.0	ug/L		9/15/00	SW846 8260B
Tetrachloroethene	3.7	0.85	2.7	ug/L		9/15/00	SW846 8260B
Toluene	< 1.1	1.1	3.5	ug/L		9/15/00	SW846 8260B
Vinyl chloride	150	0.19	0.61	ug/L		9/15/00	SW846 8260B
Xylenes, -m, -p	< 0.35	0.35	1.1	ug/L		9/15/00	SW846 8260B
Xylene, -o	< 0.28	0.28	0.89	ug/L		9/15/00	SW846 8260B
4-Bromofluorobenzene	112			%Recov		9/15/00	SW846 8260B
Dibromofluoromethane	119			%Recov		9/15/00	SW846 8260B
Toluene-d8	120			%Recov		9/15/00	SW846 8260B

- Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Client : EARTH TECH INC

Field ID : LH2

Report Date : 12/5/00

Lab Sample Number : 805784-001

Collection Date : 9/13/00

WI DNR LAB ID : 405132750

Matrix Type : WATER

Diisopropyl ether	< 0.23	0.23	0.73	ug/L		9/15/00	SW846 8260B
trans-1,2-Dichloroethene	4.4	0.35	1.1	ug/L		9/15/00	SW846 8260B
Ethylbenzene	< 0.57	0.57	1.8	ug/L		9/15/00	SW846 8260B
Hexachlorobutadiene	< 0.43	0.43	1.4	ug/L		9/15/00	SW846 8260B
p-Isopropyltoluene	< 0.25	0.25	0.80	ug/L		9/15/00	SW846 8260B
Isopropylbenzene	< 0.19	0.19	0.61	ug/L		9/15/00	SW846 8260B
Methylene chloride	0.62	0.36	1.1	ug/L	Q	9/15/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.20	0.20	0.64	ug/L		9/15/00	SW846 8260B
Naphthalene	< 0.27	0.27	0.86	ug/L		9/15/00	SW846 8260B
n-Propylbenzene	< 0.17	0.17	0.54	ug/L		9/15/00	SW846 8260B
Styrene	< 0.72	0.72	2.3	ug/L		9/15/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.30	0.30	0.96	ug/L		9/15/00	SW846 8260B
1,1,1-Trichloroethane	< 0.21	0.21	0.67	ug/L		9/15/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.22	0.22	0.70	ug/L		9/15/00	SW846 8260B
1,1,2-Trichloroethane	< 0.33	0.33	1.1	ug/L		9/15/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.30	0.30	0.96	ug/L		9/15/00	SW846 8260B
1,2,3-Trichloropropane	< 0.89	0.89	2.8	ug/L		9/15/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.24	0.24	0.76	ug/L		9/15/00	SW846 8260B
Fluorotrichloromethane	< 0.31	0.31	0.99	ug/L		9/15/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.34	0.34	1.1	ug/L		9/15/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.29	0.29	0.92	ug/L		9/15/00	SW846 8260B
1,1,2-Trichlorotrifluoroethane	< 0.54	0.54	1.7	ug/L		9/15/00	SW846 8260B
Trichloroethene	7.6	0.32	1.0	ug/L		9/15/00	SW846 8260B
Tetrachloroethene	< 0.85	0.85	2.7	ug/L		9/15/00	SW846 8260B
Toluene	< 1.1	1.1	3.5	ug/L		9/15/00	SW846 8260B
Vinyl chloride	200	0.19	0.61	ug/L		9/15/00	SW846 8260B
Xylenes, -m, -p	< 0.35	0.35	1.1	ug/L		9/15/00	SW846 8260B
Xylene, -o	< 0.28	0.28	0.89	ug/L		9/15/00	SW846 8260B
4-Bromofluorobenzene	116			%Recov		9/15/00	SW846 8260B
Dibromofluoromethane	121			%Recov		9/15/00	SW846 8260B
Toluene-d8	120			%Recov		9/15/00	SW846 8260B

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Client : EARTH TECH INC**

**Field ID : PW1788 MD**

**Report Date : 12/5/00**

**Lab Sample Number : 805784-003**

**Collection Date : 9/13/00**

**WI DNR LAB ID : 405132750**

**Matrix Type : WATER**

**Organic Results**

**SPECIAL VOLATILE LIST - WATER**

**Prep Method: SW846 5030B**

**Prep Date: 9/15/00**

**Analyst: HW**

<b>Analyte</b>	<b>Result</b>	<b>LOD</b>	<b>LOQ</b>	<b>EQL</b>	<b>Units</b>	<b>Code</b>	<b>Analysis Date</b>	<b>Analysis Method</b>
Benzene	< 0.29	0.29	0.92		ug/L		9/15/00	SW846 8260B
n-Butylbenzene	< 0.28	0.28	0.89		ug/L		9/15/00	SW846 8260B
Bromochloromethane	< 0.56	0.56	1.8		ug/L		9/15/00	SW846 8260B
Bromodichloromethane	< 0.30	0.30	0.96		ug/L		9/15/00	SW846 8260B
Bromobenzene	< 0.35	0.35	1.1		ug/L		9/15/00	SW846 8260B
Bromoform	< 0.24	0.24	0.76		ug/L		9/15/00	SW846 8260B
Bromomethane	< 0.62	0.62	2.0		ug/L		9/15/00	SW846 8260B
s-Butylbenzene	< 0.20	0.20	0.64		ug/L		9/15/00	SW846 8260B
t-Butylbenzene	< 0.23	0.23	0.73		ug/L		9/15/00	SW846 8260B
2-Chlorotoluene	< 0.19	0.19	0.61		ug/L		9/15/00	SW846 8260B
4-Chlorotoluene	< 0.21	0.21	0.67		ug/L		9/15/00	SW846 8260B
Carbon tetrachloride	< 0.22	0.22	0.70		ug/L		9/15/00	SW846 8260B
Chlorodibromomethane	< 2.8	2.8	8.9		ug/L		9/15/00	SW846 8260B
Chlorobenzene	< 0.19	0.19	0.61		ug/L		9/15/00	SW846 8260B
Chloroethane	< 0.46	0.46	1.5		ug/L		9/15/00	SW846 8260B
Chloroform	< 0.29	0.29	0.92		ug/L		9/15/00	SW846 8260B
Chloromethane	< 0.42	0.42	1.3		ug/L		9/15/00	SW846 8260B
1,1-Dichloroethane	< 0.17	0.17	0.54		ug/L		9/15/00	SW846 8260B
1,1-Dichloroethene	< 0.85	0.85	2.7		ug/L		9/15/00	SW846 8260B
1,1-Dichloropropene	< 0.46	0.46	1.5		ug/L		9/15/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.69	0.69	2.2		ug/L		9/15/00	SW846 8260B
1,2-Dibromoethane	< 0.42	0.42	1.3		ug/L		9/15/00	SW846 8260B
1,2-Dichlorobenzene	< 0.20	0.20	0.64		ug/L		9/15/00	SW846 8260B
1,2-Dichloroethane	< 0.21	0.21	0.67		ug/L		9/15/00	SW846 8260B
1,2-Dichloropropane	< 0.23	0.23	0.73		ug/L		9/15/00	SW846 8260B
1,3-Dichlorobenzene	< 0.12	0.12	0.38		ug/L		9/15/00	SW846 8260B
1,3-Dichloropropane	< 1.4	1.4	4.5		ug/L		9/15/00	SW846 8260B
1,4-Dichlorobenzene	< 0.31	0.31	0.99		ug/L		9/15/00	SW846 8260B
2,2-Dichloropropane	< 0.28	0.28	0.89		ug/L		9/15/00	SW846 8260B
Dichlorodifluoromethane	< 0.12	0.12	0.38		ug/L		9/15/00	SW846 8260B
cis-1,2-Dichloroethene	0.41	0.27	0.86		ug/L	Q	9/15/00	SW846 8260B
Dibromomethane	< 0.22	0.22	0.70		ug/L		9/15/00	SW846 8260B

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Field ID : PW1788 MD**

**Lab Sample Number : 805784-003**

**WI DNR LAB ID : 405132750**

**Client : EARTH TECH INC**

**Report Date : 12/5/00**

**Collection Date : 9/13/00**

**Matrix Type : WATER**

Diisopropyl ether	< 0.23	0.23	0.73	ug/L	9/15/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.35	0.35	1.1	ug/L	9/15/00	SW846 8260B
Ethylbenzene	< 0.57	0.57	1.8	ug/L	9/15/00	SW846 8260B
Hexachlorobutadiene	< 0.43	0.43	1.4	ug/L	9/15/00	SW846 8260B
p-Isopropyltoluene	< 0.25	0.25	0.80	ug/L	9/15/00	SW846 8260B
Isopropylbenzene	< 0.19	0.19	0.61	ug/L	9/15/00	SW846 8260B
Methylene chloride	< 0.36	0.36	1.1	ug/L	9/15/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.20	0.20	0.64	ug/L	9/15/00	SW846 8260B
Naphthalene	< 0.27	0.27	0.86	ug/L	9/15/00	SW846 8260B
n-Propylbenzene	< 0.17	0.17	0.54	ug/L	9/15/00	SW846 8260B
Styrene	< 0.72	0.72	2.3	ug/L	9/15/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.30	0.30	0.96	ug/L	9/15/00	SW846 8260B
1,1,1-Trichloroethane	< 0.21	0.21	0.67	ug/L	9/15/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.22	0.22	0.70	ug/L	9/15/00	SW846 8260B
1,1,2-Trichloroethane	< 0.33	0.33	1.1	ug/L	9/15/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.30	0.30	0.96	ug/L	9/15/00	SW846 8260B
1,2,3-Trichloropropane	< 0.89	0.89	2.8	ug/L	9/15/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.24	0.24	0.76	ug/L	9/15/00	SW846 8260B
Fluorotrichloromethane	< 0.31	0.31	0.99	ug/L	9/15/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.34	0.34	1.1	ug/L	9/15/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.29	0.29	0.92	ug/L	9/15/00	SW846 8260B
1,1,2-Trichlorotrifluoroethane	15	0.54	1.7	ug/L	9/15/00	SW846 8260B
Trichloroethene	2.8	0.32	1.0	ug/L	9/15/00	SW846 8260B
Tetrachloroethene	< 0.85	0.85	2.7	ug/L	9/15/00	SW846 8260B
Toluene	< 1.1	1.1	3.5	ug/L	9/15/00	SW846 8260B
Vinyl chloride	< 0.19	0.19	0.61	ug/L	9/15/00	SW846 8260B
Xylenes, -m, -p	< 0.35	0.35	1.1	ug/L	9/15/00	SW846 8260B
Xylene, -o	< 0.28	0.28	0.89	ug/L	9/15/00	SW846 8260B
4-Bromofluorobenzene	112			%Recov	9/15/00	SW846 8260B
Dibromofluoromethane	120			%Recov	9/15/00	SW846 8260B
Toluene-d8	119			%Recov	9/15/00	SW846 8260B



**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Client : EARTH TECH INC**

**Field ID : PW 1749 MD**

**Report Date : 12/5/00**

**Lab Sample Number : 805784-004**

**Collection Date : 9/13/00**

**WI DNR LAB ID : 405132750**

**Matrix Type : WATER**

**Organic Results**

**SPECIAL VOLATILE LIST - WATER**

**Prep Method: SW846 5030B**

**Prep Date: 9/15/00**

**Analyst: HW**

<b>Analyte</b>	<b>Result</b>	<b>LOD</b>	<b>LOQ</b>	<b>EQL</b>	<b>Units</b>	<b>Code</b>	<b>Analysis Date</b>	<b>Analysis Method</b>
Benzene	< 0.29	0.29	0.92		ug/L		9/15/00	SW846 8260B
n-Butylbenzene	< 0.28	0.28	0.89		ug/L		9/15/00	SW846 8260B
Bromochloromethane	< 0.56	0.56	1.8		ug/L		9/15/00	SW846 8260B
Bromodichloromethane	< 0.30	0.30	0.96		ug/L		9/15/00	SW846 8260B
Bromobenzene	< 0.35	0.35	1.1		ug/L		9/15/00	SW846 8260B
Bromoform	< 0.24	0.24	0.76		ug/L		9/15/00	SW846 8260B
Bromomethane	< 0.62	0.62	2.0		ug/L		9/15/00	SW846 8260B
s-Butylbenzene	< 0.20	0.20	0.64		ug/L		9/15/00	SW846 8260B
t-Butylbenzene	< 0.23	0.23	0.73		ug/L		9/15/00	SW846 8260B
2-Chlorotoluene	< 0.19	0.19	0.61		ug/L		9/15/00	SW846 8260B
4-Chlorotoluene	< 0.21	0.21	0.67		ug/L		9/15/00	SW846 8260B
Carbon tetrachloride	< 0.22	0.22	0.70		ug/L		9/15/00	SW846 8260B
Chlorodibromomethane	< 2.8	2.8	8.9		ug/L		9/15/00	SW846 8260B
Chlorobenzene	< 0.19	0.19	0.61		ug/L		9/15/00	SW846 8260B
Chloroethane	< 0.46	0.46	1.5		ug/L		9/15/00	SW846 8260B
Chloroform	< 0.29	0.29	0.92		ug/L		9/15/00	SW846 8260B
Chloromethane	< 0.42	0.42	1.3		ug/L		9/15/00	SW846 8260B
1,1-Dichloroethane	1.0	0.17	0.54		ug/L		9/15/00	SW846 8260B
1,1-Dichloroethene	< 0.85	0.85	2.7		ug/L		9/15/00	SW846 8260B
1,1-Dichloropropene	< 0.46	0.46	1.5		ug/L		9/15/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.69	0.69	2.2		ug/L		9/15/00	SW846 8260B
1,2-Dibromoethane	< 0.42	0.42	1.3		ug/L		9/15/00	SW846 8260B
1,2-Dichlorobenzene	< 0.20	0.20	0.64		ug/L		9/15/00	SW846 8260B
1,2-Dichloroethane	< 0.21	0.21	0.67		ug/L		9/15/00	SW846 8260B
1,2-Dichloropropane	< 0.23	0.23	0.73		ug/L		9/15/00	SW846 8260B
1,3-Dichlorobenzene	< 0.12	0.12	0.38		ug/L		9/15/00	SW846 8260B
1,3-Dichloropropane	< 1.4	1.4	4.5		ug/L		9/15/00	SW846 8260B
1,4-Dichlorobenzene	< 0.31	0.31	0.99		ug/L		9/15/00	SW846 8260B
2,2-Dichloropropane	< 0.28	0.28	0.89		ug/L		9/15/00	SW846 8260B
Dichlorodifluoromethane	< 0.12	0.12	0.38		ug/L		9/15/00	SW846 8260B
cis-1,2-Dichloroethene	130	0.27	0.86		ug/L		9/15/00	SW846 8260B
Dibromomethane	< 0.22	0.22	0.70		ug/L		9/15/00	SW846 8260B

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Client : EARTH TECH INC**

**Field ID : PW 1749 MD**

**Report Date : 12/5/00**

**Lab Sample Number : 805784-004**

**Collection Date : 9/13/00**

**WI DNR LAB ID : 405132750**

**Matrix Type : WATER**

Diisopropyl ether	< 0.23	0.23	0.73	ug/L	9/15/00	SW846 8260B
trans-1,2-Dichloroethene	1.9	0.35	1.1	ug/L	9/15/00	SW846 8260B
Ethylbenzene	< 0.57	0.57	1.8	ug/L	9/15/00	SW846 8260B
Hexachlorobutadiene	< 0.43	0.43	1.4	ug/L	9/15/00	SW846 8260B
p-Isopropyltoluene	< 0.25	0.25	0.80	ug/L	9/15/00	SW846 8260B
Isopropylbenzene	< 0.19	0.19	0.61	ug/L	9/15/00	SW846 8260B
Methylene chloride	< 0.36	0.36	1.1	ug/L	9/15/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.20	0.20	0.64	ug/L	9/15/00	SW846 8260B
Naphthalene	< 0.27	0.27	0.86	ug/L	9/15/00	SW846 8260B
n-Propylbenzene	< 0.17	0.17	0.54	ug/L	9/15/00	SW846 8260B
Styrene	< 0.72	0.72	2.3	ug/L	9/15/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.30	0.30	0.96	ug/L	9/15/00	SW846 8260B
1,1,1-Trichloroethane	1.1	0.21	0.67	ug/L	9/15/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.22	0.22	0.70	ug/L	9/15/00	SW846 8260B
1,1,2-Trichloroethane	< 0.33	0.33	1.1	ug/L	9/15/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.30	0.30	0.96	ug/L	9/15/00	SW846 8260B
1,2,3-Trichloropropane	< 0.89	0.89	2.8	ug/L	9/15/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.24	0.24	0.76	ug/L	9/15/00	SW846 8260B
Fluorotrichloromethane	< 0.31	0.31	0.99	ug/L	9/15/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.34	0.34	1.1	ug/L	9/15/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.29	0.29	0.92	ug/L	9/15/00	SW846 8260B
1,1,2-Trichlorotrifluoroethane	2.5	0.54	1.7	ug/L	9/15/00	SW846 8260B
Trichloroethene	95	0.32	1.0	ug/L	9/15/00	SW846 8260B
Tetrachloroethene	< 0.85	0.85	2.7	ug/L	9/15/00	SW846 8260B
Toluene	< 1.1	1.1	3.5	ug/L	9/15/00	SW846 8260B
Vinyl chloride	0.77	0.19	0.61	ug/L	9/15/00	SW846 8260B
Xylenes, -m, -p	< 0.35	0.35	1.1	ug/L	9/15/00	SW846 8260B
Xylene, -o	< 0.28	0.28	0.89	ug/L	9/15/00	SW846 8260B
4-Bromofluorobenzene	116			%Recov	9/15/00	SW846 8260B
Dibromofluoromethane	121			%Recov	9/15/00	SW846 8260B
Toluene-d8	121			%Recov	9/15/00	SW846 8260B

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Client : EARTH TECH INC**

**Field ID : P8A**

**Report Date : 12/5/00**

**Lab Sample Number : 805784-005**

**Collection Date : 9/13/00**

**WI DNR LAB ID : 405132750**

**Matrix Type : WATER**

**Organic Results**

**SPECIAL VOLATILE LIST - WATER**

**Prep Method: SW846 5030B**

**Prep Date: 9/15/00**

**Analyst: HW**

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.29	0.29	0.92		ug/L		9/15/00	SW846 8260B
n-Butylbenzene	< 0.28	0.28	0.89		ug/L		9/15/00	SW846 8260B
Bromochloromethane	< 0.56	0.56	1.8		ug/L		9/15/00	SW846 8260B
Bromodichloromethane	< 0.30	0.30	0.96		ug/L		9/15/00	SW846 8260B
Bromobenzene	< 0.35	0.35	1.1		ug/L		9/15/00	SW846 8260B
Bromoform	< 0.24	0.24	0.76		ug/L		9/15/00	SW846 8260B
Bromomethane	< 0.62	0.62	2.0		ug/L		9/15/00	SW846 8260B
s-Butylbenzene	< 0.20	0.20	0.64		ug/L		9/15/00	SW846 8260B
t-Butylbenzene	< 0.23	0.23	0.73		ug/L		9/15/00	SW846 8260B
2-Chlorotoluene	< 0.19	0.19	0.61		ug/L		9/15/00	SW846 8260B
4-Chlorotoluene	< 0.21	0.21	0.67		ug/L		9/15/00	SW846 8260B
Carbon tetrachloride	< 0.22	0.22	0.70		ug/L		9/15/00	SW846 8260B
Chlorodibromomethane	< 2.8	2.8	8.9		ug/L		9/15/00	SW846 8260B
Chlorobenzene	< 0.19	0.19	0.61		ug/L		9/15/00	SW846 8260B
Chloroethane	< 0.46	0.46	1.5		ug/L		9/15/00	SW846 8260B
Chloroform	< 0.29	0.29	0.92		ug/L		9/15/00	SW846 8260B
Chloromethane	< 0.42	0.42	1.3		ug/L		9/15/00	SW846 8260B
1,1-Dichloroethane	41	0.17	0.54		ug/L		9/15/00	SW846 8260B
1,1-Dichloroethene	3.7	0.85	2.7		ug/L		9/15/00	SW846 8260B
1,1-Dichloropropene	< 0.46	0.46	1.5		ug/L		9/15/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.69	0.69	2.2		ug/L		9/15/00	SW846 8260B
1,2-Dibromoethane	< 0.42	0.42	1.3		ug/L		9/15/00	SW846 8260B
1,2-Dichlorobenzene	< 0.20	0.20	0.64		ug/L		9/15/00	SW846 8260B
1,2-Dichloroethane	< 0.21	0.21	0.67		ug/L		9/15/00	SW846 8260B
1,2-Dichloropropane	< 0.23	0.23	0.73		ug/L		9/15/00	SW846 8260B
1,3-Dichlorobenzene	< 0.12	0.12	0.38		ug/L		9/15/00	SW846 8260B
1,3-Dichloropropane	< 1.4	1.4	4.5		ug/L		9/15/00	SW846 8260B
1,4-Dichlorobenzene	< 0.31	0.31	0.99		ug/L		9/15/00	SW846 8260B
2,2-Dichloropropane	< 0.28	0.28	0.89		ug/L		9/15/00	SW846 8260B
Dichlorodifluoromethane	< 0.12	0.12	0.38		ug/L		9/15/00	SW846 8260B
cis-1,2-Dichloroethene	150	0.27	0.86		ug/L		9/15/00	SW846 8260B
Dibromomethane	< 0.22	0.22	0.70		ug/L		9/15/00	SW846 8260B

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Field ID : P8A**

**Lab Sample Number : 805784-005**

**WI DNR LAB ID : 405132750**

**Client : EARTH TECH INC**

**Report Date : 12/5/00**

**Collection Date : 9/13/00**

**Matrix Type : WATER**

Diisopropyl ether	< 0.23	0.23	0.73	ug/L	9/15/00	SW846 8260B
-ans-1,2-Dichloroethene	1.6	0.35	1.1	ug/L	9/15/00	SW846 8260B
_thylbenzene	< 0.57	0.57	1.8	ug/L	9/15/00	SW846 8260B
Hexachlorobutadiene	< 0.43	0.43	1.4	ug/L	9/15/00	SW846 8260B
-Isopropyltoluene	< 0.25	0.25	0.80	ug/L	9/15/00	SW846 8260B
≡opropylbenzene	< 0.19	0.19	0.61	ug/L	9/15/00	SW846 8260B
Methylene chloride	< 0.36	0.36	1.1	ug/L	9/15/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.20	0.20	0.64	ug/L	9/15/00	SW846 8260B
Naphthalene	< 0.27	0.27	0.86	ug/L	9/15/00	SW846 8260B
n-Propylbenzene	< 0.17	0.17	0.54	ug/L	9/15/00	SW846 8260B
Styrene	< 0.72	0.72	2.3	ug/L	9/15/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.30	0.30	0.96	ug/L	9/15/00	SW846 8260B
1,1,1-Trichloroethane	13	0.21	0.67	ug/L	9/15/00	SW846 8260B
,1,2,2-Tetrachloroethane	< 0.22	0.22	0.70	ug/L	9/15/00	SW846 8260B
≡,1,2-Trichloroethane	< 0.33	0.33	1.1	ug/L	9/15/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.30	0.30	0.96	ug/L	9/15/00	SW846 8260B
■,2,3-Trichloropropane	< 0.89	0.89	2.8	ug/L	9/15/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.24	0.24	0.76	ug/L	9/15/00	SW846 8260B
Fluorotrichloromethane	< 0.31	0.31	0.99	ug/L	9/15/00	SW846 8260B
■,2,4-Trimethylbenzene	< 0.34	0.34	1.1	ug/L	9/15/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.29	0.29	0.92	ug/L	9/15/00	SW846 8260B
1,1,2-Trichlorotrifluoroethane	< 0.54	0.54	1.7	ug/L	9/15/00	SW846 8260B
Trichloroethene	88	0.32	1.0	ug/L	9/15/00	SW846 8260B
Tetrachloroethene	< 0.85	0.85	2.7	ug/L	9/15/00	SW846 8260B
Toluene	< 1.1	1.1	3.5	ug/L	9/15/00	SW846 8260B
Vinyl chloride	11	0.19	0.61	ug/L	9/15/00	SW846 8260B
Xylenes, -m, -p	< 0.35	0.35	1.1	ug/L	9/15/00	SW846 8260B
Xylene, -o	< 0.28	0.28	0.89	ug/L	9/15/00	SW846 8260B
4-Bromofluorobenzene	114			%Recov	9/15/00	SW846 8260B
Dibromofluoromethane	123			%Recov	9/15/00	SW846 8260B
Toluene-d8	120			%Recov	9/15/00	SW846 8260B

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Field ID : P7B**

**Lab Sample Number : 805783-001**

**WI DNR LAB ID : 405132750**

**Client : EARTH TECH INC**

**Report Date : 12/5/00**

**Collection Date : 9/14/00**

**Matrix Type : WATER**

**Organic Results**

**SPECIAL VOLATILE LIST - WATER**

**Prep Method: SW846 5030B    Prep Date: 9/15/00    Analyst: HW**

<b>Analyte</b>	<b>Result</b>	<b>LOD</b>	<b>LOQ</b>	<b>EQL</b>	<b>Units</b>	<b>Code</b>	<b>Analysis Date</b>	<b>Analysis Method</b>
Benzene	< 0.29	0.29	0.92		ug/L		9/15/00	SW846 8260B
n-Butylbenzene	< 0.28	0.28	0.89		ug/L		9/15/00	SW846 8260B
Bromochloromethane	< 0.56	0.56	1.8		ug/L		9/15/00	SW846 8260B
Bromodichloromethane	< 0.30	0.30	0.96		ug/L		9/15/00	SW846 8260B
Bromobenzene	< 0.35	0.35	1.1		ug/L		9/15/00	SW846 8260B
Bromoform	< 0.24	0.24	0.76		ug/L		9/15/00	SW846 8260B
Bromomethane	< 0.62	0.62	2.0		ug/L		9/15/00	SW846 8260B
s-Butylbenzene	< 0.20	0.20	0.64		ug/L		9/15/00	SW846 8260B
t-Butylbenzene	< 0.23	0.23	0.73		ug/L		9/15/00	SW846 8260B
2-Chlorotoluene	< 0.19	0.19	0.61		ug/L		9/15/00	SW846 8260B
4-Chlorotoluene	< 0.21	0.21	0.67		ug/L		9/15/00	SW846 8260B
Carbon tetrachloride	< 0.22	0.22	0.70		ug/L		9/15/00	SW846 8260B
Chlorodibromomethane	< 2.8	2.8	8.9		ug/L		9/15/00	SW846 8260B
Chlorobenzene	< 0.19	0.19	0.61		ug/L		9/15/00	SW846 8260B
Chloroethane	< 0.46	0.46	1.5		ug/L		9/15/00	SW846 8260B
Chloroform	< 0.29	0.29	0.92		ug/L		9/15/00	SW846 8260B
Chloromethane	< 0.42	0.42	1.3		ug/L		9/15/00	SW846 8260B
1,1-Dichloroethane	< 0.17	0.17	0.54		ug/L		9/15/00	SW846 8260B
1,1-Dichloroethene	< 0.85	0.85	2.7		ug/L		9/15/00	SW846 8260B
1,1-Dichloropropene	< 0.46	0.46	1.5		ug/L		9/15/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.69	0.69	2.2		ug/L		9/15/00	SW846 8260B
1,2-Dibromoethane	< 0.42	0.42	1.3		ug/L		9/15/00	SW846 8260B
1,2-Dichlorobenzene	< 0.20	0.20	0.64		ug/L		9/15/00	SW846 8260B
1,2-Dichloroethane	< 0.21	0.21	0.67		ug/L		9/15/00	SW846 8260B
1,2-Dichloropropane	< 0.23	0.23	0.73		ug/L		9/15/00	SW846 8260B
1,3-Dichlorobenzene	< 0.12	0.12	0.38		ug/L		9/15/00	SW846 8260B
1,3-Dichloropropane	< 1.4	1.4	4.5		ug/L		9/15/00	SW846 8260B
1,4-Dichlorobenzene	< 0.31	0.31	0.99		ug/L		9/15/00	SW846 8260B
2,2-Dichloropropane	< 0.28	0.28	0.89		ug/L		9/15/00	SW846 8260B
Dichlorodifluoromethane	< 0.12	0.12	0.38		ug/L		9/15/00	SW846 8260B
cis-1,2-Dichloroethene	0.58	0.27	0.86		ug/L	Q	9/15/00	SW846 8260B
Dibromomethane	< 0.22	0.22	0.70		ug/L		9/15/00	SW846 8260B

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Field ID : P7B**

**Lab Sample Number : 805783-001**

**WI DNR LAB ID : 405132750**

**Client : EARTH TECH INC**

**Report Date : 12/5/00**

**Collection Date : 9/14/00**

**Matrix Type : WATER**

Diisopropyl ether	< 0.23	0.23	0.73	ug/L	9/15/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.35	0.35	1.1	ug/L	9/15/00	SW846 8260B
Ethylbenzene	< 0.57	0.57	1.8	ug/L	9/15/00	SW846 8260B
Hexachlorobutadiene	< 0.43	0.43	1.4	ug/L	9/15/00	SW846 8260B
p-Isopropyltoluene	< 0.25	0.25	0.80	ug/L	9/15/00	SW846 8260B
Isopropylbenzene	< 0.19	0.19	0.61	ug/L	9/15/00	SW846 8260B
Methylene chloride	< 0.36	0.36	1.1	ug/L	9/15/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.20	0.20	0.64	ug/L	9/15/00	SW846 8260B
Naphthalene	< 0.27	0.27	0.86	ug/L	9/15/00	SW846 8260B
n-Propylbenzene	< 0.17	0.17	0.54	ug/L	9/15/00	SW846 8260B
Styrene	< 0.72	0.72	2.3	ug/L	9/15/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.30	0.30	0.96	ug/L	9/15/00	SW846 8260B
1,1,1-Trichloroethane	< 0.21	0.21	0.67	ug/L	9/15/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.22	0.22	0.70	ug/L	9/15/00	SW846 8260B
1,1,2-Trichloroethane	< 0.33	0.33	1.1	ug/L	9/15/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.30	0.30	0.96	ug/L	9/15/00	SW846 8260B
1,2,3-Trichloropropane	< 0.89	0.89	2.8	ug/L	9/15/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.24	0.24	0.76	ug/L	9/15/00	SW846 8260B
Fluorotrichloromethane	< 0.31	0.31	0.99	ug/L	9/15/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.34	0.34	1.1	ug/L	9/15/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.29	0.29	0.92	ug/L	9/15/00	SW846 8260B
1,1,2-Trichlorotrifluoroethane	< 0.54	0.54	1.7	ug/L	9/15/00	SW846 8260B
Trichloroethene	1.1	0.32	1.0	ug/L	9/15/00	SW846 8260B
Tetrachloroethene	< 0.85	0.85	2.7	ug/L	9/15/00	SW846 8260B
Toluene	< 1.1	1.1	3.5	ug/L	9/15/00	SW846 8260B
Vinyl chloride	< 0.19	0.19	0.61	ug/L	9/15/00	SW846 8260B
Xylenes, -m, -p	< 0.35	0.35	1.1	ug/L	9/15/00	SW846 8260B
Xylene, -o	< 0.28	0.28	0.89	ug/L	9/15/00	SW846 8260B
4-Bromofluorobenzene	113			%Recov	9/15/00	SW846 8260B
Dibromofluoromethane	122			%Recov	9/15/00	SW846 8260B
Toluene-d8	119			%Recov	9/15/00	SW846 8260B



- Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Field ID : FIELD BLK

Lab Sample Number : 805783-002

WI DNR LAB ID : 405132750

Client : EARTH TECH INC

Report Date : 12/5/00

Collection Date : 9/14/00

Matrix Type : WATER

Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030B Prep Date: 9/15/00 Analyst: HW

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.29	0.29	0.92		ug/L		9/15/00	SW846 8260B
n-Butylbenzene	< 0.28	0.28	0.89		ug/L		9/15/00	SW846 8260B
Bromochloromethane	< 0.56	0.56	1.8		ug/L		9/15/00	SW846 8260B
Bromodichloromethane	0.99	0.30	0.96		ug/L		9/15/00	SW846 8260B
Bromobenzene	< 0.35	0.35	1.1		ug/L		9/15/00	SW846 8260B
Bromoform	< 0.24	0.24	0.76		ug/L		9/15/00	SW846 8260B
Bromomethane	< 0.62	0.62	2.0		ug/L		9/15/00	SW846 8260B
s-Butylbenzene	< 0.20	0.20	0.64		ug/L		9/15/00	SW846 8260B
t-Butylbenzene	< 0.23	0.23	0.73		ug/L		9/15/00	SW846 8260B
2-Chlorotoluene	< 0.19	0.19	0.61		ug/L		9/15/00	SW846 8260B
4-Chlorotoluene	< 0.21	0.21	0.67		ug/L		9/15/00	SW846 8260B
Carbon tetrachloride	< 0.22	0.22	0.70		ug/L		9/15/00	SW846 8260B
Chlorodibromomethane	< 2.8	2.8	8.9		ug/L		9/15/00	SW846 8260B
Chlorobenzene	< 0.19	0.19	0.61		ug/L		9/15/00	SW846 8260B
Chloroethane	< 0.46	0.46	1.5		ug/L		9/15/00	SW846 8260B
Chloroform	2.5	0.29	0.92		ug/L		9/15/00	SW846 8260B
Chloromethane	< 0.42	0.42	1.3		ug/L		9/15/00	SW846 8260B
1,1-Dichloroethane	< 0.17	0.17	0.54		ug/L		9/15/00	SW846 8260B
1,1-Dichloroethene	< 0.85	0.85	2.7		ug/L		9/15/00	SW846 8260B
1,1-Dichloropropene	< 0.46	0.46	1.5		ug/L		9/15/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.69	0.69	2.2		ug/L		9/15/00	SW846 8260B
1,2-Dibromoethane	< 0.42	0.42	1.3		ug/L		9/15/00	SW846 8260B
1,2-Dichlorobenzene	< 0.20	0.20	0.64		ug/L		9/15/00	SW846 8260B
1,2-Dichloroethane	< 0.21	0.21	0.67		ug/L		9/15/00	SW846 8260B
1,2-Dichloropropane	< 0.23	0.23	0.73		ug/L		9/15/00	SW846 8260B
1,3-Dichlorobenzene	< 0.12	0.12	0.38		ug/L		9/15/00	SW846 8260B
1,3-Dichloropropane	< 1.4	1.4	4.5		ug/L		9/15/00	SW846 8260B
1,4-Dichlorobenzene	< 0.31	0.31	0.99		ug/L		9/15/00	SW846 8260B
2,2-Dichloropropane	< 0.28	0.28	0.89		ug/L		9/15/00	SW846 8260B
Dichlorodifluoromethane	< 0.12	0.12	0.38		ug/L		9/15/00	SW846 8260B
cis-1,2-Dichloroethene	< 0.27	0.27	0.86		ug/L		9/15/00	SW846 8260B
Dibromomethane	< 0.22	0.22	0.70		ug/L		9/15/00	SW846 8260B



**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Field ID : FIELD BLK**

**Lab Sample Number : 805783-002**

**WI DNR LAB ID : 405132750**

**Client : EARTH TECH INC**

**Report Date : 12/5/00**

**Collection Date : 9/14/00**

**Matrix Type : WATER**

Diisopropyl ether	< 0.23	0.23	0.73	ug/L		9/15/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.35	0.35	1.1	ug/L		9/15/00	SW846 8260B
Ethylbenzene	< 0.57	0.57	1.8	ug/L		9/15/00	SW846 8260B
Hexachlorobutadiene	< 0.43	0.43	1.4	ug/L		9/15/00	SW846 8260B
p-Isopropyltoluene	< 0.25	0.25	0.80	ug/L		9/15/00	SW846 8260B
Isopropylbenzene	< 0.19	0.19	0.61	ug/L		9/15/00	SW846 8260B
Methylene chloride	0.43	0.36	1.1	ug/L	Q	9/15/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.20	0.20	0.64	ug/L		9/15/00	SW846 8260B
Naphthalene	< 0.27	0.27	0.86	ug/L		9/15/00	SW846 8260B
n-Propylbenzene	< 0.17	0.17	0.54	ug/L		9/15/00	SW846 8260B
Styrene	< 0.72	0.72	2.3	ug/L		9/15/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.30	0.30	0.96	ug/L		9/15/00	SW846 8260B
1,1,1-Trichloroethane	< 0.21	0.21	0.67	ug/L		9/15/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.22	0.22	0.70	ug/L		9/15/00	SW846 8260B
1,1,2-Trichloroethane	< 0.33	0.33	1.1	ug/L		9/15/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.30	0.30	0.96	ug/L		9/15/00	SW846 8260B
1,2,3-Trichloropropane	< 0.89	0.89	2.8	ug/L		9/15/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.24	0.24	0.76	ug/L		9/15/00	SW846 8260B
Fluorotrichloromethane	< 0.31	0.31	0.99	ug/L		9/15/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.34	0.34	1.1	ug/L		9/15/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.29	0.29	0.92	ug/L		9/15/00	SW846 8260B
1,1,2-Trichlorotrifluoroethane	< 0.54	0.54	1.7	ug/L		9/15/00	SW846 8260B
Trichloroethene	< 0.32	0.32	1.0	ug/L		9/15/00	SW846 8260B
Tetrachloroethene	< 0.85	0.85	2.7	ug/L		9/15/00	SW846 8260B
Toluene	< 1.1	1.1	3.5	ug/L		9/15/00	SW846 8260B
Vinyl chloride	< 0.19	0.19	0.61	ug/L		9/15/00	SW846 8260B
Xylenes, -m, -p	< 0.35	0.35	1.1	ug/L		9/15/00	SW846 8260B
Xylene, -o	< 0.28	0.28	0.89	ug/L		9/15/00	SW846 8260B
4-Bromofluorobenzene	113			%Recov		9/15/00	SW846 8260B
Dibromofluoromethane	121			%Recov		9/15/00	SW846 8260B
Toluene-d8	122			%Recov		9/15/00	SW846 8260B

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Field ID : LH2**

**Lab Sample Number : 805784-001**

**WI DNR LAB ID : 405132750**

**Client : EARTH TECH INC**

**Report Date : 12/5/00**

**Collection Date : 9/13/00**

**Matrix Type : WATER**

**Organic Results**

**SPECIAL VOLATILE LIST - WATER**

**Prep Method: SW846 5030B    Prep Date: 9/15/00    Analyst: HW**

<b>Analyte</b>	<b>Result</b>	<b>LOD</b>	<b>LOQ</b>	<b>EQL</b>	<b>Units</b>	<b>Code</b>	<b>Analysis Date</b>	<b>Analysis Method</b>
Benzene	< 0.29	0.29	0.92		ug/L		9/15/00	SW846 8260B
n-Butylbenzene	< 0.28	0.28	0.89		ug/L		9/15/00	SW846 8260B
Bromochloromethane	< 0.56	0.56	1.8		ug/L		9/15/00	SW846 8260B
Bromodichloromethane	< 0.30	0.30	0.96		ug/L		9/15/00	SW846 8260B
Bromobenzene	< 0.35	0.35	1.1		ug/L		9/15/00	SW846 8260B
Bromoform	< 0.24	0.24	0.76		ug/L		9/15/00	SW846 8260B
Bromomethane	< 0.62	0.62	2.0		ug/L		9/15/00	SW846 8260B
s-Butylbenzene	< 0.20	0.20	0.64		ug/L		9/15/00	SW846 8260B
t-Butylbenzene	< 0.23	0.23	0.73		ug/L		9/15/00	SW846 8260B
2-Chlorotoluene	< 0.19	0.19	0.61		ug/L		9/15/00	SW846 8260B
4-Chlorotoluene	< 0.21	0.21	0.67		ug/L		9/15/00	SW846 8260B
Carbon tetrachloride	< 0.22	0.22	0.70		ug/L		9/15/00	SW846 8260B
Chlorodibromomethane	< 2.8	2.8	8.9		ug/L		9/15/00	SW846 8260B
Chlorobenzene	< 0.19	0.19	0.61		ug/L		9/15/00	SW846 8260B
Chloroethane	4.8	0.46	1.5		ug/L		9/15/00	SW846 8260B
Chloroform	< 0.29	0.29	0.92		ug/L		9/15/00	SW846 8260B
Chloromethane	< 0.42	0.42	1.3		ug/L		9/15/00	SW846 8260B
1,1-Dichloroethane	4.8	0.17	0.54		ug/L		9/15/00	SW846 8260B
1,1-Dichloroethene	< 0.85	0.85	2.7		ug/L		9/15/00	SW846 8260B
1,1-Dichloropropene	< 0.46	0.46	1.5		ug/L		9/15/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.69	0.69	2.2		ug/L		9/15/00	SW846 8260B
1,2-Dibromoethane	< 0.42	0.42	1.3		ug/L		9/15/00	SW846 8260B
1,2-Dichlorobenzene	< 0.20	0.20	0.64		ug/L		9/15/00	SW846 8260B
1,2-Dichloroethane	< 0.21	0.21	0.67		ug/L		9/15/00	SW846 8260B
1,2-Dichloropropane	< 0.23	0.23	0.73		ug/L		9/15/00	SW846 8260B
1,3-Dichlorobenzene	< 0.12	0.12	0.38		ug/L		9/15/00	SW846 8260B
1,3-Dichloropropane	< 1.4	1.4	4.5		ug/L		9/15/00	SW846 8260B
1,4-Dichlorobenzene	< 0.31	0.31	0.99		ug/L		9/15/00	SW846 8260B
2,2-Dichloropropane	< 0.28	0.28	0.89		ug/L		9/15/00	SW846 8260B
Dichlorodifluoromethane	< 0.12	0.12	0.38		ug/L		9/15/00	SW846 8260B
cis-1,2-Dichloroethene	97	0.27	0.86		ug/L		9/15/00	SW846 8260B
Dibromomethane	< 0.22	0.22	0.70		ug/L		9/15/00	SW846 8260B

**GROUNDWATER MONITORING DATA**

**JANUARY, 2000**



1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436  
800-7-ENCHEM  
FAX: 920-469-8827

## - Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Client: EARTH TECH INC

WI DNR LAB ID : 405132750

Sample No.	Field ID	Collection Date	Sample No.	Field ID	Collection Date
806095-001	P3B	12/13/00			
806095-002	P3C - DUP	12/13/00			
806095-003	P2A	12/13/00			
806095-004	P2B	12/13/00			
806095-005	FIELD BLK	12/13/00			
806095-006	TRIP BK	12/13/00			
806095-007	LH 2	12/13/00			
806095-008	LH 1	12/13/00			
806095-009	P4B	12/13/00			
806095-010	P7B	12/13/00			

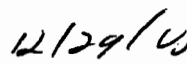
Please visit our Internet homepage at: [www.enchem.com](http://www.enchem.com)

The "Q" flag is present when a parameter has been detected below the LOQ. This indicates the results are qualified due to the uncertainty of the parameter concentration between the LOD and the LOQ.

Soil VOC detects are corrected for the total solids, unless otherwise noted.

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. Reported results shall not be reproduced, except in full, without the written approval of the lab. The sample results relate only to the analytes of interest tested.

  
Approval Signature

  
Date

Lab#:	TestGroupID:	Comment:
806095-	M-CD-D	A - Analyte is detected in the blank at a concentration of 0.14 ug/L.
	M-SE-D	A - Analyte is detected in the blank at a concentration of 0.27 ug/L.
	M-CR-D	A - Analyte is detected in the blank at a concentration of 0.33 ug/L.
	M-AS-D	A - Analyte is detected in the blank at a concentration of 0.20 ug/L.
806095-005	W-ALK-W	A - Analyte present in blank at 8.1 mg/l.
FIELD BLK		
806095-007	W-ALK-W	A - Analyte present in blank at 8.1 mg/l.
LH 2		



1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436  
800-7-ENCHEM  
FAX: 920-469-8827

## - Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Client: EARTH TECH INC

WI DNR LAB ID : 405132750

Sample No.	Field ID	Collection Date	Sample No.	Field ID	Collection Date
806109-001	PW1788MD	12/15/00			
806109-002	PW1749MD	12/15/00			
806109-003	P8A	12/15/00			
806109-004	TRIP BLK	12/15/00			

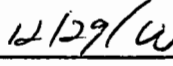
Please visit our Internet homepage at: [www.enchem.com](http://www.enchem.com)

The "Q" flag is present when a parameter has been detected below the LOQ. This indicates the results are qualified due to the uncertainty of the parameter concentration between the LOD and the LOQ.

Soil VOC detects are corrected for the total solids, unless otherwise noted.

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. Reported results shall not be reproduced, except in full, without the written approval of the lab. The sample results relate only to the analytes of interest tested.

  
Approval Signature

  
Date

**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Client : EARTH TECH INC

Field ID : P3B

Report Date : 12/29/00

Lab Sample Number : 806095-001

Collection Date : 12/13/00

WI DNR LAB ID : 405132750

Matrix Type : WATER

**Inorganic Results**

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Arsenic - Dissolved	0.38	0.075	0.24		ug/L	A	12/22/00	SW846 6020	SW846 6020	ccr
Barium - Dissolved	43	0.051	0.16		ug/L		12/22/00	SW846 6020	SW846 6020	ccr
Cadmium - Dissolved	< 0.044	0.044	0.14		ug/L		12/22/00	SW846 6020	SW846 6020	ccr
Chromium - Dissolved	0.51	0.10	0.32		ug/L	A	12/22/00	SW846 6020	SW846 6020	ccr
Lead - Dissolved	< 0.18	0.18	0.57		ug/L		12/22/00	SW846 6020	SW846 6020	ccr
Selenium - Dissolved	1.6	0.11	0.35		ug/L	A	12/22/00	SW846 6020	SW846 6020	ccr
Silver - Dissolved	< 0.031	0.031	0.099		ug/L		12/22/00	SW846 6020	SW846 6020	ccr
Alkalinity as CaCO3	280	6.6	21		mg/L		12/20/00	EPA 310.2	EPA 310.2	*MD
Chloride	24	1.5	4.8		mg/L		12/20/00	EPA 300.0	EPA 300.0	*MD
Mercury - Dissolved	< 0.021	0.021	0.067		ug/L		12/28/00	SW846 7470A	SW846 7470A	*MD
Nitrogen, NO3 + NO2	4.8	0.075	0.24		mg/L		12/21/00	EPA 353.2	EPA 353.2	*MD

**Organic Results**

**ETHANE**

Prep Method: MOD. 8015      Prep Date: 12/18/00      Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	< 10			10	ug/l		12/18/00	MOD. 8015

**Organic Results**

**ETHENE**

Prep Method: MOD. 8015      Prep Date: 12/18/00      Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l		12/18/00	MOD. 8015

**Organic Results**

**METHANE**

Prep Method: MOD. 8015      Prep Date: 12/18/00      Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	< 10			10	ug/l		12/18/00	MOD. 8015



- Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Field ID : P3C - DUP

Lab Sample Number : 806095-002

WI DNR LAB ID : 405132750

Client : EARTH TECH INC

Report Date : 12/29/00

Collection Date : 12/13/00

Matrix Type : WATER

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analys
Arsenic - Dissolved	0.51	0.075	0.24		ug/L	A	12/22/00	SW846 6020	SW846 6020	ccr
Barium - Dissolved	43	0.051	0.16		ug/L		12/22/00	SW846 6020	SW846 6020	ccr
Cadmium - Dissolved	0.15	0.044	0.14		ug/L	A	12/22/00	SW846 6020	SW846 6020	ccr
Chromium - Dissolved	0.65	0.10	0.32		ug/L	A	12/22/00	SW846 6020	SW846 6020	ccr
Lead - Dissolved	< 0.18	0.18	0.57		ug/L		12/22/00	SW846 6020	SW846 6020	ccr
Selenium - Dissolved	1.6	0.11	0.35		ug/L	A	12/22/00	SW846 6020	SW846 6020	ccr
Silver - Dissolved	< 0.031	0.031	0.099		ug/L		12/22/00	SW846 6020	SW846 6020	ccr
Alkalinity as CaCO3	280	6.6	21		mg/L		12/20/00	EPA 310.2	EPA 310.2	*MD
Chloride	25	1.5	4.8		mg/L		12/20/00	EPA 300.0	EPA 300.0	*MD
Mercury - Dissolved	< 0.021	0.021	0.067		ug/L		12/28/00	SW846 7470A	SW846 7470A	*MD
Nitrogen, NO3 + NO2	4.9	0.075	0.24		mg/L		12/21/00	EPA 353.2	EPA 353.2	*MD

Organic Results

ETHANE

Prep Method: MOD. 8015

Prep Date: 12/18/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	< 10			10	ug/l		12/18/00	MOD. 8015

Organic Results

ETHENE

Prep Method: MOD. 8015

Prep Date: 12/18/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l		12/18/00	MOD. 8015

Organic Results

METHANE

Prep Method: MOD. 8015

Prep Date: 12/18/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	< 10			10	ug/l		12/18/00	MOD. 8015

- Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Field ID : P2A

Lab Sample Number : 806095-003

WI DNR LAB ID : 405132750

Client : EARTH TECH INC

Report Date : 12/29/00

Collection Date : 12/13/00

Matrix Type : WATER

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Arsenic - Dissolved	2.3	0.075	0.24		ug/L	A	12/22/00	SW846 6020	SW846 6020	ccr
Barium - Dissolved	54	0.051	0.16		ug/L		12/22/00	SW846 6020	SW846 6020	ccr
Cadmium - Dissolved	< 0.044	0.044	0.14		ug/L		12/22/00	SW846 6020	SW846 6020	ccr
Chromium - Dissolved	1.2	0.10	0.32		ug/L	A	12/22/00	SW846 6020	SW846 6020	ccr
Lead - Dissolved	0.49	0.18	0.57		ug/L	QA	12/22/00	SW846 6020	SW846 6020	ccr
Selenium - Dissolved	1.2	0.11	0.35		ug/L	A	12/22/00	SW846 6020	SW846 6020	ccr
Silver - Dissolved	< 0.031	0.031	0.099		ug/L		12/22/00	SW846 6020	SW846 6020	ccr
Alkalinity as CaCO3	500	6.6	21		mg/L		12/20/00	EPA 310.2	EPA 310.2	*MD
Chloride	270	1.5	4.8		mg/L		12/20/00	EPA 300.0	EPA 300.0	*MD
Mercury - Dissolved	< 0.021	0.021	0.067		ug/L		12/28/00	SW846 7470A	SW846 7470A	*MD
Nitrogen, NO3 + NO2	0.037	0.015	0.048		mg/L	Q	12/21/00	EPA 353.2	EPA 353.2	*MD

Organic Results

ETHANE

Prep Method: MOD. 8015 Prep Date: 12/18/00 Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	< 10			10	ug/l		12/18/00	MOD. 8015

Organic Results

ETHENE

Prep Method: MOD. 8015 Prep Date: 12/18/00 Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l		12/18/00	MOD. 8015

Organic Results

METHANE

Prep Method: MOD. 8015 Prep Date: 12/18/00 Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	12			10	ug/l		12/18/00	MOD. 8015

- Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Field ID : P2B

Lab Sample Number : 806095-004

WI DNR LAB ID : 405132750

Client : EARTH TECH INC

Report Date : 12/29/00

Collection Date : 12/13/00

Matrix Type : WATER

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Arsenic - Dissolved	1.2	0.075	0.24		ug/L	A	12/22/00	SW846 6020	SW846 6020	ccr
Barium - Dissolved	70	0.051	0.16		ug/L		12/22/00	SW846 6020	SW846 6020	ccr
Cadmium - Dissolved	< 0.044	0.044	0.14		ug/L		12/22/00	SW846 6020	SW846 6020	ccr
Chromium - Dissolved	0.64	0.10	0.32		ug/L	A	12/22/00	SW846 6020	SW846 6020	ccr
Lead - Dissolved	< 0.18	0.18	0.57		ug/L		12/22/00	SW846 6020	SW846 6020	ccr
Selenium - Dissolved	0.62	0.11	0.35		ug/L	A	12/22/00	SW846 6020	SW846 6020	ccr
Silver - Dissolved	< 0.031	0.031	0.099		ug/L		12/22/00	SW846 6020	SW846 6020	ccr
Alkalinity as CaCO3	390	6.6	21		mg/L		12/20/00	EPA 310.2	EPA 310.2	*MD
Chloride	99	1.5	4.8		mg/L		12/20/00	EPA 300.0	EPA 300.0	*MD
Mercury - Dissolved	< 0.021	0.021	0.067		ug/L		12/28/00	SW846 7470A	SW846 7470A	*MD
Nitrogen, NO3 + NO2	0.12	0.015	0.048		mg/L		12/21/00	EPA 353.2	EPA 353.2	*MD

Organic Results

ETHANE

Prep Method: MOD. 8015      Prep Date: 12/18/00      Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	22			10	ug/l		12/18/00	MOD. 8015

Organic Results

ETHENE

Prep Method: MOD. 8015      Prep Date: 12/18/00      Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l		12/18/00	MOD. 8015

Organic Results

METHANE

Prep Method: MOD. 8015      Prep Date: 12/18/00      Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	430			100	ug/l		12/18/00	MOD. 8015

**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Field ID : FIELD BLK

Lab Sample Number : 806095-005

WI DNR LAB ID : 405132750

Client : EARTH TECH INC

Report Date : 12/29/00

Collection Date : 12/13/00

Matrix Type : WATER

**Inorganic Results**

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Arsenic - Dissolved	0.10	0.075	0.24		ug/L	QA	12/22/00	SW846 6020	SW846 6020	ccr
Barium - Dissolved	< 0.051	0.051	0.16		ug/L		12/22/00	SW846 6020	SW846 6020	ccr
Cadmium - Dissolved	< 0.044	0.044	0.14		ug/L		12/22/00	SW846 6020	SW846 6020	ccr
Chromium - Dissolved	0.26	0.10	0.32		ug/L	QA	12/22/00	SW846 6020	SW846 6020	ccr
Lead - Dissolved	< 0.18	0.18	0.57		ug/L		12/22/00	SW846 6020	SW846 6020	ccr
Selenium - Dissolved	< 0.11	0.11	0.35		ug/L		12/22/00	SW846 6020	SW846 6020	ccr
Silver - Dissolved	< 0.031	0.031	0.099		ug/L		12/22/00	SW846 6020	SW846 6020	ccr
Alkalinity as CaCO3	9.7	6.6	21		mg/L	QA	12/20/00	EPA 310.2	EPA 310.2	*MD
Chloride	< 0.15	0.15	0.48		mg/L		12/20/00	EPA 300.0	EPA 300.0	*MD
Mercury - Dissolved	< 0.021	0.021	0.067		ug/L		12/28/00	SW846 7470A	SW846 7470A	*MD
Nitrogen, NO3 + NO2	< 0.015	0.015	0.048		mg/L		12/21/00	EPA 353.2	EPA 353.2	*MD

**Organic Results**

ETHANE

Prep Method: MOD. 8015

Prep Date: 12/18/00 Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	< 10			10	ug/l		12/18/00	MOD. 8015

**Organic Results**

ETHENE

Prep Method: MOD. 8015

Prep Date: 12/18/00 Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l		12/18/00	MOD. 8015

**Organic Results**

METHANE

Prep Method: MOD. 8015

Prep Date: 12/18/00 Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	< 10			10	ug/l		12/18/00	MOD. 8015

**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Field ID : LH 2

Lab Sample Number : 806095-007

WI DNR LAB ID : 405132750

Client : EARTH TECH INC

Report Date : 12/29/00

Collection Date : 12/13/00

Matrix Type : WATER

**Inorganic Results**

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Arsenic - Dissolved	0.53	0.12	0.38		ug/L		12/27/00	SW846 3020	SW846 6020	dms
Barium - Dissolved	28	0.20	0.64		ug/L		12/27/00	SW846 3020	SW846 6020	dms
Cadmium - Dissolved	< 0.099	0.099	0.32		ug/L		12/27/00	SW846 3020	SW846 6020	dms
Chromium - Dissolved	0.87	0.21	0.67		ug/L		12/27/00	SW846 3020	SW846 6020	dms
Lead - Dissolved	5.0	0.079	0.25		ug/L		12/27/00	SW846 3020	SW846 6020	dms
Selenium - Dissolved	3.1	0.26	0.83		ug/L		12/27/00	SW846 3020	SW846 6020	dms
Silver	< 0.034	0.034	0.11		ug/L		12/20/00	SW846 3005	SW846 6020	CCR
Alkalinity as CaCO3	76	6.6	21		mg/L	A	12/20/00	EPA 310.2	EPA 310.2	*MD
Chloride	96	1.5	4.8		mg/L		12/20/00	EPA 300.0	EPA 300.0	*MD
Mercury - Dissolved	0.35	0.021	0.067		ug/L		12/28/00	SW846 7470A	SW846 7470A	*MD
Nitrogen, NO3 + NO2	1.9	0.015	0.048		mg/L		12/21/00	EPA 353.2	EPA 353.2	*MD

**Organic Results**

**ETHANE**

Prep Method: MOD. 8015      Prep Date: 12/18/00      Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	< 10			10	ug/l		12/18/00	MOD. 8015

**Organic Results**

**ETHENE**

Prep Method: MOD. 8015      Prep Date: 12/18/00      Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l		12/18/00	MOD. 8015

**Organic Results**

**METHANE**

Prep Method: MOD. 8015      Prep Date: 12/18/00      Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	210			40	ug/l		12/18/00	MOD. 8015



**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Field ID : LH 1

Lab Sample Number : 806095-008

WI DNR LAB ID : 405132750

Client : EARTH TECH INC

Report Date : 12/29/00

Collection Date : 12/13/00

Matrix Type : WATER

**Inorganic Results**

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Arsenic - Dissolved	0.87	0.075	0.24		ug/L	A	12/22/00	SW846 6020	SW846 6020	ccr
Barium - Dissolved	31	0.051	0.16		ug/L		12/22/00	SW846 6020	SW846 6020	ccr
Cadmium - Dissolved	< 0.044	0.044	0.14		ug/L		12/22/00	SW846 6020	SW846 6020	ccr
Chromium - Dissolved	0.37	0.10	0.32		ug/L	A	12/22/00	SW846 6020	SW846 6020	ccr
Lead - Dissolved	< 0.18	0.18	0.57		ug/L		12/22/00	SW846 6020	SW846 6020	ccr
Selenium - Dissolved	5.0	0.11	0.35		ug/L	A	12/22/00	SW846 6020	SW846 6020	ccr
Silver - Dissolved	< 0.031	0.031	0.099		ug/L		12/22/00	SW846 6020	SW846 6020	ccr
Alkalinity as CaCO3	350	6.6	21		mg/L		12/20/00	EPA 310.2	EPA 310.2	*MD
Chloride	130	1.5	4.8		mg/L		12/20/00	EPA 300.0	EPA 300.0	*MD
Mercury - Dissolved	0.54	0.021	0.067		ug/L		12/28/00	SW846 7470A	SW846 7470A	*MD
Nitrogen, NO3 + NO2	2.8	0.015	0.048		mg/L		12/21/00	EPA 353.2	EPA 353.2	*MD

**Organic Results**

**ETHANE** Prep Method: MOD. 8015 Prep Date: 12/18/00 Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	< 10			10	ug/l		12/18/00	MOD. 8015

**Organic Results**

**ETHENE** Prep Method: MOD. 8015 Prep Date: 12/18/00 Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l		12/18/00	MOD. 8015

**Organic Results**

**METHANE** Prep Method: MOD. 8015 Prep Date: 12/18/00 Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	170			40	ug/l		12/18/00	MOD. 8015

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Field ID : P4B**

**Lab Sample Number : 806095-009**

**WI DNR LAB ID : 405132750**

**Client : EARTH TECH INC**

**Report Date : 12/29/00**

**Collection Date : 12/13/00**

**Matrix Type : WATER**

**Inorganic Results**

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Arsenic - Dissolved	0.62	0.075	0.24		ug/L	A	12/22/00	SW846 6020	SW846 6020	ccr
Barium - Dissolved	44	0.051	0.16		ug/L		12/22/00	SW846 6020	SW846 6020	ccr
Cadmium - Dissolved	< 0.044	0.044	0.14		ug/L		12/22/00	SW846 6020	SW846 6020	ccr
Chromium - Dissolved	0.73	0.10	0.32		ug/L	A	12/22/00	SW846 6020	SW846 6020	ccr
Lead - Dissolved	< 0.18	0.18	0.57		ug/L		12/22/00	SW846 6020	SW846 6020	ccr
Selenium - Dissolved	1.4	0.11	0.35		ug/L	A	12/22/00	SW846 6020	SW846 6020	ccr
Silver - Dissolved	< 0.031	0.031	0.099		ug/L		12/22/00	SW846 6020	SW846 6020	ccr
Alkalinity as CaCO3	350	6.6	21		mg/L		12/20/00	EPA 310.2	EPA 310.2	*MD
Chloride	42	1.5	4.8		mg/L		12/20/00	EPA 300.0	EPA 300.0	*MD
Mercury - Dissolved	< 0.021	0.021	0.067		ug/L		12/28/00	SW846 7470A	SW846 7470A	*MD
Nitrogen, NO3 + NO2	5.2	0.075	0.24		mg/L		12/21/00	EPA 353.2	EPA 353.2	*MD

**Organic Results**

**ETHANE**

Prep Method: MOD. 8015

Prep Date: 12/18/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	< 10			10	ug/l		12/18/00	MOD. 8015

**Organic Results**

**ETHENE**

Prep Method: MOD. 8015

Prep Date: 12/18/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l		12/18/00	MOD. 8015

**Organic Results**

**METHANE**

Prep Method: MOD. 8015

Prep Date: 12/18/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	< 10			10	ug/l		12/18/00	MOD. 8015



**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Client : EARTH TECH INC

Field ID : P7B

Report Date : 12/29/00

Lab Sample Number : 806095-010

Collection Date : 12/13/00

WI DNR LAB ID : 405132750

Matrix Type : WATER

**Inorganic Results**

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Arsenic - Dissolved	0.33	0.075	0.24		ug/L	A	12/22/00	SW846 6020	SW846 6020	ccr
Barium - Dissolved	46	0.051	0.16		ug/L		12/22/00	SW846 6020	SW846 6020	ccr
Cadmium - Dissolved	< 0.044	0.044	0.14		ug/L		12/22/00	SW846 6020	SW846 6020	ccr
Chromium - Dissolved	0.37	0.10	0.32		ug/L	A	12/22/00	SW846 6020	SW846 6020	ccr
Lead - Dissolved	< 0.18	0.18	0.57		ug/L		12/22/00	SW846 6020	SW846 6020	ccr
Selenium - Dissolved	0.98	0.11	0.35		ug/L	A	12/22/00	SW846 6020	SW846 6020	ccr
Silver - Dissolved	< 0.031	0.031	0.099		ug/L		12/22/00	SW846 6020	SW846 6020	ccr
Alkalinity as CaCO3	390	6.6	21		mg/L		12/20/00	EPA 310.2	EPA 310.2	*MD
Chloride	7.3	0.15	0.48		mg/L		12/20/00	EPA 300.0	EPA 300.0	*MD
Mercury - Dissolved	< 0.021	0.021	0.067		ug/L		12/28/00	SW846 7470A	SW846 7470A	*MD
Nitrogen, NO3 + NO2	3.6	0.075	0.24		mg/L		12/21/00	EPA 353.2	EPA 353.2	*MD

**Organic Results**

**ETHANE**

Prep Method: MOD. 8015

Prep Date: 12/18/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	< 10			10	ug/l		12/18/00	MOD. 8015

**Organic Results**

**ETHENE**

Prep Method: MOD. 8015

Prep Date: 12/18/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l		12/18/00	MOD. 8015

**Organic Results**

**METHANE**

Prep Method: MOD. 8015

Prep Date: 12/18/00

Analyst: smt

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	< 10			10	ug/l		12/18/00	MOD. 8015

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Client : EARTH TECH INC**

**Field ID : PW1788MD**

**Report Date : 12/29/00**

**Lab Sample Number : 806109-001**

**Collection Date : 12/15/00**

**WI DNR LAB ID : 405132750**

**Matrix Type : WATER**

**Inorganic Results**

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Arsenic - Dissolved	0.47	0.075	0.24		ug/L	A	12/22/00	SW846 6020	SW846 6020	ccr
Barium - Dissolved	86	0.051	0.16		ug/L		12/22/00	SW846 6020	SW846 6020	ccr
Cadmium - Dissolved	< 0.044	0.044	0.14		ug/L		12/22/00	SW846 6020	SW846 6020	ccr
Chromium - Dissolved	0.36	0.10	0.32		ug/L	A	12/22/00	SW846 6020	SW846 6020	ccr
Lead - Dissolved	< 0.18	0.18	0.57		ug/L		12/22/00	SW846 6020	SW846 6020	ccr
Selenium - Dissolved	1.4	0.11	0.35		ug/L	A	12/22/00	SW846 6020	SW846 6020	ccr
Silver - Dissolved	< 0.031	0.031	0.099		ug/L		12/22/00	SW846 6020	SW846 6020	ccr
Alkalinity as CaCO3	340	6.6	21		mg/L		12/20/00	EPA 310.2	EPA 310.2	*MD
Chloride	39	1.5	4.8		mg/L		12/20/00	EPA 300.0	EPA 300.0	*MD
Mercury - Dissolved	< 0.021	0.021	0.067		ug/L		12/29/00	SW846 7470A	SW846 7470A	*MD
Nitrogen, NO3 + NO2	1.0	0.015	0.048		mg/L		12/21/00	EPA 353.2	EPA 353.2	*MD

**Organic Results**

**ETHANE**

Prep Method: MOD. 8015

Prep Date: 12/21/00

Analyst: SMT

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	< 10			10	ug/l		12/21/00	MOD. 8015

**Organic Results**

**ETHENE**

Prep Method: MOD. 8015

Prep Date: 12/21/00

Analyst: SMT

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l		12/21/00	MOD. 8015

**Organic Results**

**METHANE**

Prep Method: MOD. 8015

Prep Date: 12/21/00

Analyst: SMT

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	< 10			10	ug/l		12/21/00	MOD. 8015

- Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Client : EARTH TECH INC

Field ID : PW1749MD

Report Date : 12/29/00

Lab Sample Number : 806109-002

Collection Date : 12/15/00

WI DNR LAB ID : 405132750

Matrix Type : WATER

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Arsenic - Dissolved	0.35	0.075	0.24		ug/L	A	12/22/00	SW846 6020	SW846 6020	ccr
Barium - Dissolved	49	0.051	0.16		ug/L		12/22/00	SW846 6020	SW846 6020	ccr
Cadmium - Dissolved	< 0.044	0.044	0.14		ug/L		12/22/00	SW846 6020	SW846 6020	ccr
Chromium - Dissolved	0.43	0.10	0.32		ug/L	A	12/22/00	SW846 6020	SW846 6020	ccr
Lead - Dissolved	< 0.18	0.18	0.57		ug/L		12/22/00	SW846 6020	SW846 6020	ccr
Selenium - Dissolved	0.74	0.11	0.35		ug/L	A	12/22/00	SW846 6020	SW846 6020	ccr
Silver - Dissolved	< 0.031	0.031	0.099		ug/L		12/22/00	SW846 6020	SW846 6020	ccr
Alkalinity as CaCO3	310	6.6	21		mg/L		12/20/00	EPA 310.2	EPA 310.2	*MD
Chloride	15	1.5	4.8		mg/L		12/20/00	EPA 300.0	EPA 300.0	*MD
Mercury - Dissolved	< 0.021	0.021	0.067		ug/L		12/29/00	SW846 7470A	SW846 7470A	*MD
Nitrogen, NO3 + NO2	0.76	0.015	0.048		mg/L		12/21/00	EPA 353.2	EPA 353.2	*MD

Organic Results

ETHANE

Prep Method: MOD. 8015

Prep Date: 12/21/00

Analyst: SMT

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	< 10			10	ug/l		12/21/00	MOD. 8015

Organic Results

ETHENE

Prep Method: MOD. 8015

Prep Date: 12/21/00

Analyst: SMT

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l		12/21/00	MOD. 8015

Organic Results

METHANE

Prep Method: MOD. 8015

Prep Date: 12/21/00

Analyst: SMT

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	< 10			10	ug/l		12/21/00	MOD. 8015

**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Field ID : P8A

Lab Sample Number : 806109-003

WI DNR LAB ID : 405132750

Client : EARTH TECH INC

Report Date : 12/29/00

Collection Date : 12/15/00

Matrix Type : WATER

**Inorganic Results**

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Arsenic - Dissolved	0.38	0.075	0.24		ug/L	A	12/22/00	SW846 6020	SW846 6020	ccr
Barium - Dissolved	100	0.051	0.16		ug/L		12/22/00	SW846 6020	SW846 6020	ccr
Cadmium - Dissolved	< 0.044	0.044	0.14		ug/L		12/22/00	SW846 6020	SW846 6020	ccr
Chromium - Dissolved	0.39	0.10	0.32		ug/L	A	12/22/00	SW846 6020	SW846 6020	ccr
Lead - Dissolved	< 0.18	0.18	0.57		ug/L		12/22/00	SW846 6020	SW846 6020	ccr
Selenium - Dissolved	0.49	0.11	0.35		ug/L	A	12/22/00	SW846 6020	SW846 6020	ccr
Silver - Dissolved	< 0.031	0.031	0.099		ug/L		12/22/00	SW846 6020	SW846 6020	ccr
Alkalinity as CaCO3	290	6.6	21		mg/L		12/20/00	EPA 310.2	EPA 310.2	*MD
Chloride	49	1.5	4.8		mg/L		12/20/00	EPA 300.0	EPA 300.0	*MD
Mercury - Dissolved	< 0.021	0.021	0.067		ug/L		12/29/00	SW846 7470A	SW846 7470A	*MD
Nitrogen, NO3 + NO2	0.85	0.015	0.048		mg/L		12/21/00	EPA 353.2	EPA 353.2	*MD

**Organic Results**

**ETHANE** Prep Method: MOD. 8015 Prep Date: 12/21/00 Analyst: SMT

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethane	< 10			10	ug/l		12/21/00	MOD. 8015

**Organic Results**

**ETHENE** Prep Method: MOD. 8015 Prep Date: 12/21/00 Analyst: SMT

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Ethene	< 10			10	ug/l		12/21/00	MOD. 8015

**Organic Results**

**METHANE** Prep Method: MOD. 8015 Prep Date: 12/21/00 Analyst: SMT

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Methane	< 10			10	ug/l		12/21/00	MOD. 8015

- Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Client : EARTH TECH INC

Field ID : P3B

Report Date : 12/29/00

Lab Sample Number : 806095-001

Collection Date : 12/13/00

WI DNR LAB ID : 405132750

Matrix Type : WATER

Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030B Prep Date: 12/18/00 Analyst: HW

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.29	0.29	0.92		ug/L		12/19/00	SW846 8260B
n-Butylbenzene	< 0.28	0.28	0.89		ug/L		12/19/00	SW846 8260B
Bromochloromethane	< 0.56	0.56	1.8		ug/L		12/19/00	SW846 8260B
Bromodichloromethane	< 0.30	0.30	0.96		ug/L		12/19/00	SW846 8260B
Bromobenzene	< 0.35	0.35	1.1		ug/L		12/19/00	SW846 8260B
Bromoform	< 0.24	0.24	0.76		ug/L		12/19/00	SW846 8260B
Bromomethane	< 0.62	0.62	2.0		ug/L		12/19/00	SW846 8260B
s-Butylbenzene	< 0.20	0.20	0.64		ug/L		12/19/00	SW846 8260B
t-Butylbenzene	< 0.23	0.23	0.73		ug/L		12/19/00	SW846 8260B
2-Chlorotoluene	< 0.19	0.19	0.61		ug/L		12/19/00	SW846 8260B
4-Chlorotoluene	< 0.21	0.21	0.67		ug/L		12/19/00	SW846 8260B
Carbon tetrachloride	< 0.22	0.22	0.70		ug/L		12/19/00	SW846 8260B
Chlorodibromomethane	< 2.8	2.8	8.9		ug/L		12/19/00	SW846 8260B
Chlorobenzene	< 0.19	0.19	0.61		ug/L		12/19/00	SW846 8260B
Chloroethane	< 0.46	0.46	1.5		ug/L		12/19/00	SW846 8260B
Chloroform	< 0.29	0.29	0.92		ug/L		12/19/00	SW846 8260B
Chloromethane	< 0.42	0.42	1.3		ug/L		12/19/00	SW846 8260B
1,1-Dichloroethane	< 0.17	0.17	0.54		ug/L		12/19/00	SW846 8260B
1,1-Dichloroethene	< 0.85	0.85	2.7		ug/L		12/19/00	SW846 8260B
1,1-Dichloropropene	< 0.46	0.46	1.5		ug/L		12/19/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.69	0.69	2.2		ug/L		12/19/00	SW846 8260B
1,2-Dibromoethane	< 0.42	0.42	1.3		ug/L		12/19/00	SW846 8260B
1,2-Dichlorobenzene	< 0.20	0.20	0.64		ug/L		12/19/00	SW846 8260B
1,2-Dichloroethane	< 0.21	0.21	0.67		ug/L		12/19/00	SW846 8260B
1,2-Dichloropropane	< 0.23	0.23	0.73		ug/L		12/19/00	SW846 8260B
1,3-Dichlorobenzene	< 0.12	0.12	0.38		ug/L		12/19/00	SW846 8260B
1,3-Dichloropropane	< 1.4	1.4	4.5		ug/L		12/19/00	SW846 8260B
1,4-Dichlorobenzene	< 0.31	0.31	0.99		ug/L		12/19/00	SW846 8260B
2,2-Dichloropropane	< 0.28	0.28	0.89		ug/L		12/19/00	SW846 8260B
Dichlorodifluoromethane	< 0.12	0.12	0.38		ug/L		12/19/00	SW846 8260B
Dibromomethane	< 0.22	0.22	0.70		ug/L		12/19/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.35	0.35	1.1		ug/L		12/19/00	SW846 8260B
Ethylbenzene	< 0.57	0.57	1.8		ug/L		12/19/00	SW846 8260B

- Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Client : EARTH TECH INC

Field ID : P3B

Report Date : 12/29/00

Lab Sample Number : 806095-001

Collection Date : 12/13/00

WI DNR LAB ID : 405132750

Matrix Type : WATER

Hexachlorobutadiene	< 0.43	0.43	1.4	ug/L		12/19/00	SW846 8260B
p-Isopropyltoluene	< 0.25	0.25	0.80	ug/L		12/19/00	SW846 8260B
Isopropylbenzene	< 0.19	0.19	0.61	ug/L		12/19/00	SW846 8260B
Methylene chloride	0.40	0.36	1.1	ug/L	Q	12/19/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.20	0.20	0.64	ug/L		12/19/00	SW846 8260B
Naphthalene	< 0.27	0.27	0.86	ug/L		12/19/00	SW846 8260B
n-Propylbenzene	< 0.17	0.17	0.54	ug/L		12/19/00	SW846 8260B
Styrene	< 0.72	0.72	2.3	ug/L		12/19/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.30	0.30	0.96	ug/L		12/19/00	SW846 8260B
1,1,1-Trichloroethane	< 0.21	0.21	0.67	ug/L		12/19/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.22	0.22	0.70	ug/L		12/19/00	SW846 8260B
1,1,2-Trichloroethane	< 0.33	0.33	1.1	ug/L		12/19/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.30	0.30	0.96	ug/L		12/19/00	SW846 8260B
1,2,3-Trichloropropane	< 0.89	0.89	2.8	ug/L		12/19/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.24	0.24	0.76	ug/L		12/19/00	SW846 8260B
Fluorotrichloromethane	< 0.31	0.31	0.99	ug/L		12/19/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.34	0.34	1.1	ug/L		12/19/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.29	0.29	0.92	ug/L		12/19/00	SW846 8260B
Trichloroethene	38	0.32	1.0	ug/L		12/19/00	SW846 8260B
Tetrachloroethene	2.2	0.85	2.7	ug/L	Q	12/19/00	SW846 8260B
Toluene	< 1.1	1.1	3.5	ug/L		12/19/00	SW846 8260B
Vinyl chloride	< 0.19	0.19	0.61	ug/L		12/19/00	SW846 8260B
Xylenes, -m, -p	< 0.35	0.35	1.1	ug/L		12/19/00	SW846 8260B
Xylene, -o	< 0.28	0.28	0.89	ug/L		12/19/00	SW846 8260B
4-Bromofluorobenzene	118			%Recov		12/19/00	SW846 8260B
Dibromofluoromethane	102			%Recov		12/19/00	SW846 8260B
Toluene-d8	124			%Recov		12/19/00	SW846 8260B

**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Client : EARTH TECH INC

Field ID : P3C - DUP

Report Date : 12/29/00

Lab Sample Number : 806095-002

Collection Date : 12/13/00

WI DNR LAB ID : 405132750

Matrix Type : WATER

**Organic Results****SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030B Prep Date: 12/18/00 Analyst: HW

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.29	0.29	0.92		ug/L		12/19/00	SW846 8260B
n-Butylbenzene	< 0.28	0.28	0.89		ug/L		12/19/00	SW846 8260B
Bromochloromethane	< 0.56	0.56	1.8		ug/L		12/19/00	SW846 8260B
Bromodichloromethane	< 0.30	0.30	0.96		ug/L		12/19/00	SW846 8260B
Bromobenzene	< 0.35	0.35	1.1		ug/L		12/19/00	SW846 8260B
Bromoform	< 0.24	0.24	0.76		ug/L		12/19/00	SW846 8260B
Bromomethane	< 0.62	0.62	2.0		ug/L		12/19/00	SW846 8260B
s-Butylbenzene	< 0.20	0.20	0.64		ug/L		12/19/00	SW846 8260B
t-Butylbenzene	< 0.23	0.23	0.73		ug/L		12/19/00	SW846 8260B
2-Chlorotoluene	< 0.19	0.19	0.61		ug/L		12/19/00	SW846 8260B
4-Chlorotoluene	< 0.21	0.21	0.67		ug/L		12/19/00	SW846 8260B
Carbon tetrachloride	< 0.22	0.22	0.70		ug/L		12/19/00	SW846 8260B
Chlorodibromomethane	< 2.8	2.8	8.9		ug/L		12/19/00	SW846 8260B
Chlorobenzene	< 0.19	0.19	0.61		ug/L		12/19/00	SW846 8260B
Chloroethane	< 0.46	0.46	1.5		ug/L		12/19/00	SW846 8260B
Chloroform	< 0.29	0.29	0.92		ug/L		12/19/00	SW846 8260B
Chloromethane	< 0.42	0.42	1.3		ug/L		12/19/00	SW846 8260B
1,1-Dichloroethane	< 0.17	0.17	0.54		ug/L		12/19/00	SW846 8260B
1,1-Dichloroethene	< 0.85	0.85	2.7		ug/L		12/19/00	SW846 8260B
1,1-Dichloropropene	< 0.46	0.46	1.5		ug/L		12/19/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.69	0.69	2.2		ug/L		12/19/00	SW846 8260B
1,2-Dibromoethane	< 0.42	0.42	1.3		ug/L		12/19/00	SW846 8260B
1,2-Dichlorobenzene	< 0.20	0.20	0.64		ug/L		12/19/00	SW846 8260B
1,2-Dichloroethane	< 0.21	0.21	0.67		ug/L		12/19/00	SW846 8260B
1,2-Dichloropropane	< 0.23	0.23	0.73		ug/L		12/19/00	SW846 8260B
1,3-Dichlorobenzene	< 0.12	0.12	0.38		ug/L		12/19/00	SW846 8260B
1,3-Dichloropropane	< 1.4	1.4	4.5		ug/L		12/19/00	SW846 8260B
1,4-Dichlorobenzene	< 0.31	0.31	0.99		ug/L		12/19/00	SW846 8260B
2,2-Dichloropropane	< 0.28	0.28	0.89		ug/L		12/19/00	SW846 8260B
Dichlorodifluoromethane	< 0.12	0.12	0.38		ug/L		12/19/00	SW846 8260B
Dibromomethane	< 0.22	0.22	0.70		ug/L		12/19/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.35	0.35	1.1		ug/L		12/19/00	SW846 8260B
Ethylbenzene	< 0.57	0.57	1.8		ug/L		12/19/00	SW846 8260B



- Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Field ID : P3C - DUP

Lab Sample Number : 806095-002

WI DNR LAB ID : 405132750

Client : EARTH TECH INC

Report Date : 12/29/00

Collection Date : 12/13/00

Matrix Type : WATER

Hexachlorobutadiene	< 0.43	0.43	1.4	ug/L		12/19/00	SW846 8260B
p-Isopropyltoluene	< 0.25	0.25	0.80	ug/L		12/19/00	SW846 8260B
Isopropylbenzene	< 0.19	0.19	0.61	ug/L		12/19/00	SW846 8260B
Methylene chloride	< 0.36	0.36	1.1	ug/L		12/19/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.20	0.20	0.64	ug/L		12/19/00	SW846 8260B
Naphthalene	< 0.27	0.27	0.86	ug/L		12/19/00	SW846 8260B
n-Propylbenzene	< 0.17	0.17	0.54	ug/L		12/19/00	SW846 8260B
Styrene	< 0.72	0.72	2.3	ug/L		12/19/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.30	0.30	0.96	ug/L		12/19/00	SW846 8260B
1,1,1-Trichloroethane	< 0.21	0.21	0.67	ug/L		12/19/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.22	0.22	0.70	ug/L		12/19/00	SW846 8260B
1,1,2-Trichloroethane	< 0.33	0.33	1.1	ug/L		12/19/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.30	0.30	0.96	ug/L		12/19/00	SW846 8260B
1,2,3-Trichloropropane	< 0.89	0.89	2.8	ug/L		12/19/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.24	0.24	0.76	ug/L		12/19/00	SW846 8260B
Fluorotrichloromethane	< 0.31	0.31	0.99	ug/L		12/19/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.34	0.34	1.1	ug/L		12/19/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.29	0.29	0.92	ug/L		12/19/00	SW846 8260B
Trichloroethene	37	0.32	1.0	ug/L		12/19/00	SW846 8260B
Tetrachloroethene	1.9	0.85	2.7	ug/L	Q	12/19/00	SW846 8260B
Toluene	< 1.1	1.1	3.5	ug/L		12/19/00	SW846 8260B
Vinyl chloride	< 0.19	0.19	0.61	ug/L		12/19/00	SW846 8260B
Xylenes, -m, -p	< 0.35	0.35	1.1	ug/L		12/19/00	SW846 8260B
Xylene, -o	< 0.28	0.28	0.89	ug/L		12/19/00	SW846 8260B
4-Bromofluorobenzene	120			%Recov		12/19/00	SW846 8260B
Dibromofluoromethane	100			%Recov		12/19/00	SW846 8260B
Toluene-d8	124			%Recov		12/19/00	SW846 8260B

- Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Field ID : P2A

Lab Sample Number : 806095-003

WI DNR LAB ID : 405132750

Client : EARTH TECH INC

Report Date : 12/29/00

Collection Date : 12/13/00

Matrix Type : WATER

Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030B

Prep Date: 12/18/00

Analyst: HW

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.29	0.29	0.92		ug/L		12/19/00	SW846 8260B
n-Butylbenzene	< 0.28	0.28	0.89		ug/L		12/19/00	SW846 8260B
Bromochloromethane	< 0.56	0.56	1.8		ug/L		12/19/00	SW846 8260B
Bromodichloromethane	< 0.30	0.30	0.96		ug/L		12/19/00	SW846 8260B
Bromobenzene	< 0.35	0.35	1.1		ug/L		12/19/00	SW846 8260B
Bromoform	< 0.24	0.24	0.76		ug/L		12/19/00	SW846 8260B
Bromomethane	< 0.62	0.62	2.0		ug/L		12/19/00	SW846 8260B
s-Butylbenzene	< 0.20	0.20	0.64		ug/L		12/19/00	SW846 8260B
t-Butylbenzene	< 0.23	0.23	0.73		ug/L		12/19/00	SW846 8260B
2-Chlorotoluene	< 0.19	0.19	0.61		ug/L		12/19/00	SW846 8260B
4-Chlorotoluene	< 0.21	0.21	0.67		ug/L		12/19/00	SW846 8260B
Carbon tetrachloride	< 0.22	0.22	0.70		ug/L		12/19/00	SW846 8260B
Chlorodibromomethane	< 2.8	2.8	8.9		ug/L		12/19/00	SW846 8260B
Chlorobenzene	< 0.19	0.19	0.61		ug/L		12/19/00	SW846 8260B
Chloroethane	< 0.46	0.46	1.5		ug/L		12/19/00	SW846 8260B
Chloroform	< 0.29	0.29	0.92		ug/L		12/19/00	SW846 8260B
Chloromethane	< 0.42	0.42	1.3		ug/L		12/19/00	SW846 8260B
1,1-Dichloroethane	27	0.17	0.54		ug/L		12/19/00	SW846 8260B
1,1-Dichloroethene	< 0.85	0.85	2.7		ug/L		12/19/00	SW846 8260B
1,1-Dichloropropene	< 0.46	0.46	1.5		ug/L		12/19/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.69	0.69	2.2		ug/L		12/19/00	SW846 8260B
1,2-Dibromoethane	< 0.42	0.42	1.3		ug/L		12/19/00	SW846 8260B
1,2-Dichlorobenzene	< 0.20	0.20	0.64		ug/L		12/19/00	SW846 8260B
1,2-Dichloroethane	< 0.21	0.21	0.67		ug/L		12/19/00	SW846 8260B
1,2-Dichloropropane	< 0.23	0.23	0.73		ug/L		12/19/00	SW846 8260B
1,3-Dichlorobenzene	< 0.12	0.12	0.38		ug/L		12/19/00	SW846 8260B
1,3-Dichloropropane	< 1.4	1.4	4.5		ug/L		12/19/00	SW846 8260B
1,4-Dichlorobenzene	< 0.31	0.31	0.99		ug/L		12/19/00	SW846 8260B
2,2-Dichloropropane	< 0.28	0.28	0.89		ug/L		12/19/00	SW846 8260B
Dichlorodifluoromethane	0.16	0.12	0.38		ug/L	Q	12/19/00	SW846 8260B
Dibromomethane	< 0.22	0.22	0.70		ug/L		12/19/00	SW846 8260B
trans-1,2-Dichloroethene	5.1	0.35	1.1		ug/L		12/19/00	SW846 8260B
Ethylbenzene	< 0.57	0.57	1.8		ug/L		12/19/00	SW846 8260B

- Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Field ID : P2A

Lab Sample Number : 806095-003

WI DNR LAB ID : 405132750

Client : EARTH TECH INC

Report Date : 12/29/00

Collection Date : 12/13/00

Matrix Type : WATER

Hexachlorobutadiene	< 0.43	0.43	1.4	ug/L		12/19/00	SW846 8260B
p-Isopropyltoluene	< 0.25	0.25	0.80	ug/L		12/19/00	SW846 8260B
Isopropylbenzene	< 0.19	0.19	0.61	ug/L		12/19/00	SW846 8260B
Methylene chloride	0.50	0.36	1.1	ug/L	Q	12/19/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.20	0.20	0.64	ug/L		12/19/00	SW846 8260B
Naphthalene	< 0.27	0.27	0.86	ug/L		12/19/00	SW846 8260B
n-Propylbenzene	< 0.17	0.17	0.54	ug/L		12/19/00	SW846 8260B
Styrene	< 0.72	0.72	2.3	ug/L		12/19/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.30	0.30	0.96	ug/L		12/19/00	SW846 8260B
1,1,1-Trichloroethane	< 0.21	0.21	0.67	ug/L		12/19/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.22	0.22	0.70	ug/L		12/19/00	SW846 8260B
1,1,2-Trichloroethane	< 0.33	0.33	1.1	ug/L		12/19/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.30	0.30	0.96	ug/L		12/19/00	SW846 8260B
1,2,3-Trichloropropane	< 0.89	0.89	2.8	ug/L		12/19/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.24	0.24	0.76	ug/L		12/19/00	SW846 8260B
Fluorotrichloromethane	< 0.31	0.31	0.99	ug/L		12/19/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.34	0.34	1.1	ug/L		12/19/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.29	0.29	0.92	ug/L		12/19/00	SW846 8260B
Trichloroethene	6.2	0.32	1.0	ug/L		12/19/00	SW846 8260B
Tetrachloroethene	< 0.85	0.85	2.7	ug/L		12/19/00	SW846 8260B
Toluene	< 1.1	1.1	3.5	ug/L		12/19/00	SW846 8260B
Vinyl chloride	2.0	0.19	0.61	ug/L		12/19/00	SW846 8260B
Xylenes, -m, -p	< 0.35	0.35	1.1	ug/L		12/19/00	SW846 8260B
Xylene, -o	< 0.28	0.28	0.89	ug/L		12/19/00	SW846 8260B
4-Bromofluorobenzene	121			%Recov		12/19/00	SW846 8260B
Dibromofluoromethane	101			%Recov		12/19/00	SW846 8260B
Toluene-d8	125			%Recov		12/19/00	SW846 8260B

**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Client : EARTH TECH INC

Field ID : P2B

Report Date : 12/29/00

Lab Sample Number : 806095-004

Collection Date : 12/13/00

WI DNR LAB ID : 405132750

Matrix Type : WATER

**Organic Results****SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030B Prep Date: 12/18/00 Analyst: HW

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.72	0.72	2.3		ug/L		12/20/00	SW846 8260B
n-Butylbenzene	< 0.70	0.70	2.2		ug/L		12/20/00	SW846 8260B
Bromochloromethane	< 1.4	1.4	4.5		ug/L		12/20/00	SW846 8260B
Bromodichloromethane	< 0.75	0.75	2.4		ug/L		12/20/00	SW846 8260B
Bromobenzene	< 0.87	0.87	2.8		ug/L		12/20/00	SW846 8260B
Bromoform	< 0.60	0.60	1.9		ug/L		12/20/00	SW846 8260B
Bromomethane	< 1.6	1.6	5.1		ug/L		12/20/00	SW846 8260B
s-Butylbenzene	< 0.50	0.50	1.6		ug/L		12/20/00	SW846 8260B
t-Butylbenzene	< 0.58	0.58	1.8		ug/L		12/20/00	SW846 8260B
2-Chlorotoluene	< 0.47	0.47	1.5		ug/L		12/20/00	SW846 8260B
4-Chlorotoluene	< 0.53	0.53	1.7		ug/L		12/20/00	SW846 8260B
Carbon tetrachloride	< 0.55	0.55	1.8		ug/L		12/20/00	SW846 8260B
Chlorodibromomethane	< 7.0	7.0	22		ug/L		12/20/00	SW846 8260B
Chlorobenzene	< 0.47	0.47	1.5		ug/L		12/20/00	SW846 8260B
Chloroethane	13	1.2	3.8		ug/L		12/20/00	SW846 8260B
Chloroform	< 0.72	0.72	2.3		ug/L		12/20/00	SW846 8260B
Chloromethane	< 1.1	1.1	3.5		ug/L		12/20/00	SW846 8260B
1,1-Dichloroethane	22	0.43	1.4		ug/L		12/20/00	SW846 8260B
1,1-Dichloroethene	2.2	2.1	6.7		ug/L	Q	12/20/00	SW846 8260B
1,1-Dichloropropene	< 1.2	1.2	3.8		ug/L		12/20/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.7	1.7	5.4		ug/L		12/20/00	SW846 8260B
1,2-Dibromoethane	< 1.1	1.1	3.5		ug/L		12/20/00	SW846 8260B
1,2-Dichlorobenzene	< 0.50	0.50	1.6		ug/L		12/20/00	SW846 8260B
1,2-Dichloroethane	< 0.53	0.53	1.7		ug/L		12/20/00	SW846 8260B
1,2-Dichloropropane	< 0.58	0.58	1.8		ug/L		12/20/00	SW846 8260B
1,3-Dichlorobenzene	< 0.30	0.30	0.96		ug/L		12/20/00	SW846 8260B
1,3-Dichloropropane	< 3.5	3.5	11		ug/L		12/20/00	SW846 8260B
1,4-Dichlorobenzene	< 0.78	0.78	2.5		ug/L		12/20/00	SW846 8260B
2,2-Dichloropropane	< 0.70	0.70	2.2		ug/L		12/20/00	SW846 8260B
Dichlorodifluoromethane	< 0.30	0.30	0.96		ug/L		12/20/00	SW846 8260B
Dibromomethane	< 0.55	0.55	1.8		ug/L		12/20/00	SW846 8260B
trans-1,2-Dichloroethene	15	0.87	2.8		ug/L		12/20/00	SW846 8260B
Ethylbenzene	< 1.4	1.4	4.5		ug/L		12/20/00	SW846 8260B

**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Client : EARTH TECH INC

Field ID : P2B

Report Date : 12/29/00

Lab Sample Number : 806095-004

Collection Date : 12/13/00

WI DNR LAB ID : 405132750

Matrix Type : WATER

Hexachlorobutadiene	< 1.1	1.1	3.5	ug/L	12/20/00	SW846 8260B
p-Isopropyltoluene	< 0.62	0.62	2.0	ug/L	12/20/00	SW846 8260B
Isopropylbenzene	< 0.47	0.47	1.5	ug/L	12/20/00	SW846 8260B
Methylene chloride	< 0.90	0.90	2.9	ug/L	12/20/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.50	0.50	1.6	ug/L	12/20/00	SW846 8260B
Naphthalene	< 0.68	0.68	2.2	ug/L	12/20/00	SW846 8260B
n-Propylbenzene	< 0.43	0.43	1.4	ug/L	12/20/00	SW846 8260B
Styrene	< 1.8	1.8	5.7	ug/L	12/20/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.75	0.75	2.4	ug/L	12/20/00	SW846 8260B
1,1,1-Trichloroethane	< 0.53	0.53	1.7	ug/L	12/20/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.55	0.55	1.8	ug/L	12/20/00	SW846 8260B
1,1,2-Trichloroethane	< 0.83	0.83	2.6	ug/L	12/20/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.75	0.75	2.4	ug/L	12/20/00	SW846 8260B
1,2,3-Trichloropropane	< 2.2	2.2	7.0	ug/L	12/20/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.60	0.60	1.9	ug/L	12/20/00	SW846 8260B
Fluorotrichloromethane	< 0.78	0.78	2.5	ug/L	12/20/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.85	0.85	2.7	ug/L	12/20/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.72	0.72	2.3	ug/L	12/20/00	SW846 8260B
Trichloroethene	200	0.80	2.5	ug/L	12/20/00	SW846 8260B
Tetrachloroethene	< 2.1	2.1	6.7	ug/L	12/20/00	SW846 8260B
Toluene	< 2.8	2.8	8.9	ug/L	12/20/00	SW846 8260B
Vinyl chloride	390	0.47	1.5	ug/L	12/20/00	SW846 8260B
Xylenes, -m, -p	< 0.87	0.87	2.8	ug/L	12/20/00	SW846 8260B
Xylene, -o	< 0.70	0.70	2.2	ug/L	12/20/00	SW846 8260B
4-Bromofluorobenzene	112			%Recov	12/20/00	SW846 8260B
Dibromofluoromethane	115			%Recov	12/20/00	SW846 8260B
Toluene-d8	120			%Recov	12/20/00	SW846 8260B

**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Client : EARTH TECH INC

Field ID : FIELD BLK

Report Date : 12/29/00

Lab Sample Number : 806095-005

Collection Date : 12/13/00

WI DNR LAB ID : 405132750

Matrix Type : WATER

**Organic Results****SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030B Prep Date: 12/18/00 Analyst: HW

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.29	0.29	0.92		ug/L		12/19/00	SW846 8260B
n-Butylbenzene	< 0.28	0.28	0.89		ug/L		12/19/00	SW846 8260B
Bromochloromethane	< 0.56	0.56	1.8		ug/L		12/19/00	SW846 8260B
Bromodichloromethane	1.5	0.30	0.96		ug/L		12/19/00	SW846 8260B
Bromobenzene	< 0.35	0.35	1.1		ug/L		12/19/00	SW846 8260B
Bromoform	< 0.24	0.24	0.76		ug/L		12/19/00	SW846 8260B
Bromomethane	< 0.62	0.62	2.0		ug/L		12/19/00	SW846 8260B
s-Butylbenzene	< 0.20	0.20	0.64		ug/L		12/19/00	SW846 8260B
t-Butylbenzene	< 0.23	0.23	0.73		ug/L		12/19/00	SW846 8260B
2-Chlorotoluene	< 0.19	0.19	0.61		ug/L		12/19/00	SW846 8260B
4-Chlorotoluene	< 0.21	0.21	0.67		ug/L		12/19/00	SW846 8260B
Carbon tetrachloride	< 0.22	0.22	0.70		ug/L		12/19/00	SW846 8260B
Chlorodibromomethane	< 2.8	2.8	8.9		ug/L		12/19/00	SW846 8260B
Chlorobenzene	< 0.19	0.19	0.61		ug/L		12/19/00	SW846 8260B
Chloroethane	< 0.46	0.46	1.5		ug/L		12/19/00	SW846 8260B
Chloroform	3.1	0.29	0.92		ug/L		12/19/00	SW846 8260B
Chloromethane	< 0.42	0.42	1.3		ug/L		12/19/00	SW846 8260B
1,1-Dichloroethane	< 0.17	0.17	0.54		ug/L		12/19/00	SW846 8260B
1,1-Dichloroethene	< 0.85	0.85	2.7		ug/L		12/19/00	SW846 8260B
1,1-Dichloropropene	< 0.46	0.46	1.5		ug/L		12/19/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.69	0.69	2.2		ug/L		12/19/00	SW846 8260B
1,2-Dibromoethane	< 0.42	0.42	1.3		ug/L		12/19/00	SW846 8260B
1,2-Dichlorobenzene	< 0.20	0.20	0.64		ug/L		12/19/00	SW846 8260B
1,2-Dichloroethane	< 0.21	0.21	0.67		ug/L		12/19/00	SW846 8260B
1,2-Dichloropropane	< 0.23	0.23	0.73		ug/L		12/19/00	SW846 8260B
1,3-Dichlorobenzene	< 0.12	0.12	0.38		ug/L		12/19/00	SW846 8260B
1,3-Dichloropropane	< 1.4	1.4	4.5		ug/L		12/19/00	SW846 8260B
1,4-Dichlorobenzene	< 0.31	0.31	0.99		ug/L		12/19/00	SW846 8260B
2,2-Dichloropropane	< 0.28	0.28	0.89		ug/L		12/19/00	SW846 8260B
Dichlorodifluoromethane	< 0.12	0.12	0.38		ug/L		12/19/00	SW846 8260B
Dibromomethane	< 0.22	0.22	0.70		ug/L		12/19/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.35	0.35	1.1		ug/L		12/19/00	SW846 8260B
Ethylbenzene	< 0.57	0.57	1.8		ug/L		12/19/00	SW846 8260B

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Client : EARTH TECH INC**

**Field ID : FIELD BLK**

**Report Date : 12/29/00**

**Lab Sample Number : 806095-005**

**Collection Date : 12/13/00**

**WI DNR LAB ID : 405132750**

**Matrix Type : WATER**

Hexachlorobutadiene	< 0.43	0.43	1.4	ug/L		12/19/00	SW846 8260B
p-Isopropyltoluene	< 0.25	0.25	0.80	ug/L		12/19/00	SW846 8260B
Isopropylbenzene	< 0.19	0.19	0.61	ug/L		12/19/00	SW846 8260B
Methylene chloride	0.72	0.36	1.1	ug/L	Q	12/19/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.20	0.20	0.64	ug/L		12/19/00	SW846 8260B
Naphthalene	< 0.27	0.27	0.86	ug/L		12/19/00	SW846 8260B
n-Propylbenzene	< 0.17	0.17	0.54	ug/L		12/19/00	SW846 8260B
Styrene	< 0.72	0.72	2.3	ug/L		12/19/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.30	0.30	0.96	ug/L		12/19/00	SW846 8260B
1,1,1-Trichloroethane	< 0.21	0.21	0.67	ug/L		12/19/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.22	0.22	0.70	ug/L		12/19/00	SW846 8260B
1,1,2-Trichloroethane	< 0.33	0.33	1.1	ug/L		12/19/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.30	0.30	0.96	ug/L		12/19/00	SW846 8260B
1,2,3-Trichloropropane	< 0.89	0.89	2.8	ug/L		12/19/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.24	0.24	0.76	ug/L		12/19/00	SW846 8260B
Fluorotrichloromethane	< 0.31	0.31	0.99	ug/L		12/19/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.34	0.34	1.1	ug/L		12/19/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.29	0.29	0.92	ug/L		12/19/00	SW846 8260B
Trichloroethene	< 0.32	0.32	1.0	ug/L		12/19/00	SW846 8260B
Tetrachloroethene	< 0.85	0.85	2.7	ug/L		12/19/00	SW846 8260B
Toluene	< 1.1	1.1	3.5	ug/L		12/19/00	SW846 8260B
Vinyl chloride	< 0.19	0.19	0.61	ug/L		12/19/00	SW846 8260B
Xylenes, -m, -p	< 0.35	0.35	1.1	ug/L		12/19/00	SW846 8260B
Xylene, -o	< 0.28	0.28	0.89	ug/L		12/19/00	SW846 8260B
4-Bromofluorobenzene	118			%Recov		12/19/00	SW846 8260B
Dibromofluoromethane	101			%Recov		12/19/00	SW846 8260B
Toluene-d8	124			%Recov		12/19/00	SW846 8260B



**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Client : EARTH TECH INC

Field ID : TRIP BK

Report Date : 12/20/00

Lab Sample Number : 806095-006

Collection Date : 12/13/00

WI DNR LAB ID : 405132750

Matrix Type : WATER

**Organic Results****SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030B Prep Date: 12/18/00 Analyst: HW

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.29	0.29	0.92		ug/L		12/19/00	SW846 8260B
n-Butylbenzene	< 0.28	0.28	0.89		ug/L		12/19/00	SW846 8260B
Bromochloromethane	< 0.56	0.56	1.8		ug/L		12/19/00	SW846 8260B
Bromodichloromethane	< 0.30	0.30	0.96		ug/L		12/19/00	SW846 8260B
Bromobenzene	< 0.35	0.35	1.1		ug/L		12/19/00	SW846 8260B
Bromoform	< 0.24	0.24	0.76		ug/L		12/19/00	SW846 8260B
Bromomethane	< 0.62	0.62	2.0		ug/L		12/19/00	SW846 8260B
s-Butylbenzene	< 0.20	0.20	0.64		ug/L		12/19/00	SW846 8260B
t-Butylbenzene	< 0.23	0.23	0.73		ug/L		12/19/00	SW846 8260B
2-Chlorotoluene	< 0.19	0.19	0.61		ug/L		12/19/00	SW846 8260B
4-Chlorotoluene	< 0.21	0.21	0.67		ug/L		12/19/00	SW846 8260B
Carbon tetrachloride	< 0.22	0.22	0.70		ug/L		12/19/00	SW846 8260B
Chlorodibromomethane	< 2.8	2.8	8.9		ug/L		12/19/00	SW846 8260B
Chlorobenzene	< 0.19	0.19	0.61		ug/L		12/19/00	SW846 8260B
Chloroethane	< 0.46	0.46	1.5		ug/L		12/19/00	SW846 8260B
Chloroform	< 0.29	0.29	0.92		ug/L		12/19/00	SW846 8260B
Chloromethane	< 0.42	0.42	1.3		ug/L		12/19/00	SW846 8260B
1,1-Dichloroethane	< 0.17	0.17	0.54		ug/L		12/19/00	SW846 8260B
1,1-Dichloroethene	< 0.85	0.85	2.7		ug/L		12/19/00	SW846 8260B
1,1-Dichloropropene	< 0.46	0.46	1.5		ug/L		12/19/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.69	0.69	2.2		ug/L		12/19/00	SW846 8260B
1,2-Dibromoethane	< 0.42	0.42	1.3		ug/L		12/19/00	SW846 8260B
1,2-Dichlorobenzene	< 0.20	0.20	0.64		ug/L		12/19/00	SW846 8260B
1,2-Dichloroethane	< 0.21	0.21	0.67		ug/L		12/19/00	SW846 8260B
1,2-Dichloropropane	< 0.23	0.23	0.73		ug/L		12/19/00	SW846 8260B
1,3-Dichlorobenzene	< 0.12	0.12	0.38		ug/L		12/19/00	SW846 8260B
1,3-Dichloropropane	< 1.4	1.4	4.5		ug/L		12/19/00	SW846 8260B
1,4-Dichlorobenzene	< 0.31	0.31	0.99		ug/L		12/19/00	SW846 8260B
2,2-Dichloropropane	< 0.28	0.28	0.89		ug/L		12/19/00	SW846 8260B
Dichlorodifluoromethane	< 0.12	0.12	0.38		ug/L		12/19/00	SW846 8260B
Dibromomethane	< 0.22	0.22	0.70		ug/L		12/19/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.35	0.35	1.1		ug/L		12/19/00	SW846 8260B

- Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Field ID : TRIP BK

Lab Sample Number : 806095-006

WI DNR LAB ID : 405132750

Client : EARTH TECH INC

Report Date : 12/20/00

Collection Date : 12/13/00

Matrix Type : WATER

Ethylbenzene	< 0.57	0.57	1.8	ug/L	12/19/00	SW846 8260B
Hexachlorobutadiene	< 0.43	0.43	1.4	ug/L	12/19/00	SW846 8260B
p-Isopropyltoluene	< 0.25	0.25	0.80	ug/L	12/19/00	SW846 8260B
Isopropylbenzene	< 0.19	0.19	0.61	ug/L	12/19/00	SW846 8260B
Methylene chloride	2.2	0.36	1.1	ug/L	12/19/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.20	0.20	0.64	ug/L	12/19/00	SW846 8260B
Naphthalene	< 0.27	0.27	0.86	ug/L	12/19/00	SW846 8260B
n-Propylbenzene	< 0.17	0.17	0.54	ug/L	12/19/00	SW846 8260B
Styrene	< 0.72	0.72	2.3	ug/L	12/19/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.30	0.30	0.96	ug/L	12/19/00	SW846 8260B
1,1,1-Trichloroethane	< 0.21	0.21	0.67	ug/L	12/19/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.22	0.22	0.70	ug/L	12/19/00	SW846 8260B
1,1,2-Trichloroethane	< 0.33	0.33	1.1	ug/L	12/19/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.30	0.30	0.96	ug/L	12/19/00	SW846 8260B
1,2,3-Trichloropropane	< 0.89	0.89	2.8	ug/L	12/19/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.24	0.24	0.76	ug/L	12/19/00	SW846 8260B
Fluorotrichloromethane	< 0.31	0.31	0.99	ug/L	12/19/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.34	0.34	1.1	ug/L	12/19/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.29	0.29	0.92	ug/L	12/19/00	SW846 8260B
Trichloroethene	< 0.32	0.32	1.0	ug/L	12/19/00	SW846 8260B
Tetrachloroethene	< 0.85	0.85	2.7	ug/L	12/19/00	SW846 8260B
Toluene	< 1.1	1.1	3.5	ug/L	12/19/00	SW846 8260B
Vinyl chloride	< 0.19	0.19	0.61	ug/L	12/19/00	SW846 8260B
Xylenes, -m, -p	< 0.35	0.35	1.1	ug/L	12/19/00	SW846 8260B
Xylene, -o	< 0.28	0.28	0.89	ug/L	12/19/00	SW846 8260B
4-Bromofluorobenzene	119			%Recov	12/19/00	SW846 8260B
Dibromofluoromethane	99			%Recov	12/19/00	SW846 8260B
Toluene-d8	125			%Recov	12/19/00	SW846 8260B

**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Field ID : LH 2

Lab Sample Number : 806095-007

WI DNR LAB ID : 405132750

Client : EARTH TECH INC

Report Date : 12/29/00

Collection Date : 12/13/00

Matrix Type : WATER

**Organic Results****SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030B Prep Date: 12/18/00 Analyst: HW

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.29	0.29	0.92		ug/L		12/19/00	SW846 8260B
n-Butylbenzene	< 0.28	0.28	0.89		ug/L		12/19/00	SW846 8260B
Bromochloromethane	< 0.56	0.56	1.8		ug/L		12/19/00	SW846 8260B
Bromodichloromethane	< 0.30	0.30	0.96		ug/L		12/19/00	SW846 8260B
Bromobenzene	< 0.35	0.35	1.1		ug/L		12/19/00	SW846 8260B
Bromoform	< 0.24	0.24	0.76		ug/L		12/19/00	SW846 8260B
Bromomethane	< 0.62	0.62	2.0		ug/L		12/19/00	SW846 8260B
s-Butylbenzene	< 0.20	0.20	0.64		ug/L		12/19/00	SW846 8260B
t-Butylbenzene	< 0.23	0.23	0.73		ug/L		12/19/00	SW846 8260B
2-Chlorotoluene	< 0.19	0.19	0.61		ug/L		12/19/00	SW846 8260B
4-Chlorotoluene	< 0.21	0.21	0.67		ug/L		12/19/00	SW846 8260B
Carbon tetrachloride	< 0.22	0.22	0.70		ug/L		12/19/00	SW846 8260B
Chlorodibromomethane	< 2.8	2.8	8.9		ug/L		12/19/00	SW846 8260B
Chlorobenzene	< 0.19	0.19	0.61		ug/L		12/19/00	SW846 8260B
Chloroethane	3.1	0.46	1.5		ug/L		12/19/00	SW846 8260B
Chloroform	< 0.29	0.29	0.92		ug/L		12/19/00	SW846 8260B
Chloromethane	< 0.42	0.42	1.3		ug/L		12/19/00	SW846 8260B
1,1-Dichloroethane	5.1	0.17	0.54		ug/L		12/19/00	SW846 8260B
1,1-Dichloroethene	0.88	0.85	2.7		ug/L	Q	12/19/00	SW846 8260B
1,1-Dichloropropene	< 0.46	0.46	1.5		ug/L		12/19/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.69	0.69	2.2		ug/L		12/19/00	SW846 8260B
1,2-Dibromoethane	< 0.42	0.42	1.3		ug/L		12/19/00	SW846 8260B
1,2-Dichlorobenzene	< 0.20	0.20	0.64		ug/L		12/19/00	SW846 8260B
1,2-Dichloroethane	< 0.21	0.21	0.67		ug/L		12/19/00	SW846 8260B
1,2-Dichloropropane	< 0.23	0.23	0.73		ug/L		12/19/00	SW846 8260B
1,3-Dichlorobenzene	< 0.12	0.12	0.38		ug/L		12/19/00	SW846 8260B
1,3-Dichloropropane	< 1.4	1.4	4.5		ug/L		12/19/00	SW846 8260B
1,4-Dichlorobenzene	< 0.31	0.31	0.99		ug/L		12/19/00	SW846 8260B
2,2-Dichloropropane	< 0.28	0.28	0.89		ug/L		12/19/00	SW846 8260B
Dichlorodifluoromethane	< 0.12	0.12	0.38		ug/L		12/19/00	SW846 8260B
Dibromomethane	< 0.22	0.22	0.70		ug/L		12/19/00	SW846 8260B
trans-1,2-Dichloroethene	4.6	0.35	1.1		ug/L		12/19/00	SW846 8260B
Ethylbenzene	< 0.57	0.57	1.8		ug/L		12/19/00	SW846 8260B

- Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Field ID : LH 2

Lab Sample Number : 806095-007

WI DNR LAB ID : 405132750

Client : EARTH TECH INC

Report Date : 12/29/00

Collection Date : 12/13/00

Matrix Type : WATER

Hexachlorobutadiene	< 0.43	0.43	1.4	ug/L		12/19/00	SW846 8260B
p-Isopropyltoluene	< 0.25	0.25	0.80	ug/L		12/19/00	SW846 8260B
Isopropylbenzene	< 0.19	0.19	0.61	ug/L		12/19/00	SW846 8260B
Methylene chloride	0.62	0.36	1.1	ug/L	Q	12/19/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.20	0.20	0.64	ug/L		12/19/00	SW846 8260B
Naphthalene	< 0.27	0.27	0.86	ug/L		12/19/00	SW846 8260B
n-Propylbenzene	< 0.17	0.17	0.54	ug/L		12/19/00	SW846 8260B
Styrene	< 0.72	0.72	2.3	ug/L		12/19/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.30	0.30	0.96	ug/L		12/19/00	SW846 8260B
1,1,1-Trichloroethane	< 0.21	0.21	0.67	ug/L		12/19/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.22	0.22	0.70	ug/L		12/19/00	SW846 8260B
1,1,2-Trichloroethane	< 0.33	0.33	1.1	ug/L		12/19/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.30	0.30	0.96	ug/L		12/19/00	SW846 8260B
1,2,3-Trichloropropane	< 0.69	0.69	2.8	ug/L		12/19/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.24	0.24	0.76	ug/L		12/19/00	SW846 8260B
Fluorotrichloromethane	< 0.31	0.31	0.99	ug/L		12/19/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.34	0.34	1.1	ug/L		12/19/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.29	0.29	0.92	ug/L		12/19/00	SW846 8260B
Trichloroethene	13	0.32	1.0	ug/L		12/19/00	SW846 8260B
Tetrachloroethene	1.6	0.85	2.7	ug/L	Q	12/19/00	SW846 8260B
Toluene	< 1.1	1.1	3.5	ug/L		12/19/00	SW846 8260B
Vinyl chloride	150	0.19	0.61	ug/L		12/19/00	SW846 8260B
Xylenes, -m, -p	< 0.35	0.35	1.1	ug/L		12/19/00	SW846 8260B
Xylene, -o	< 0.28	0.28	0.89	ug/L		12/19/00	SW846 8260B
4-Bromofluorobenzene	117			%Recov		12/19/00	SW846 8260B
Dibromofluoromethane	102			%Recov		12/19/00	SW846 8260B
Toluene-d8	123			%Recov		12/19/00	SW846 8260B

**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Client : EARTH TECH INC

Field ID : LH 1

Report Date : 12/29/00

Lab Sample Number : 806095-008

Collection Date : 12/13/00

WI DNR LAB ID : 405132750

Matrix Type : WATER

**Organic Results****SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030B Prep Date: 12/18/00 Analyst: HW

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.29	0.29	0.92		ug/L		12/19/00	SW846 8260B
n-Butylbenzene	< 0.28	0.28	0.89		ug/L		12/19/00	SW846 8260B
Bromochloromethane	< 0.56	0.56	1.8		ug/L		12/19/00	SW846 8260B
Bromodichloromethane	< 0.30	0.30	0.96		ug/L		12/19/00	SW846 8260B
Bromobenzene	< 0.35	0.35	1.1		ug/L		12/19/00	SW846 8260B
Bromoform	< 0.24	0.24	0.76		ug/L		12/19/00	SW846 8260B
Bromomethane	< 0.62	0.62	2.0		ug/L		12/19/00	SW846 8260B
s-Butylbenzene	< 0.20	0.20	0.64		ug/L		12/19/00	SW846 8260B
t-Butylbenzene	< 0.23	0.23	0.73		ug/L		12/19/00	SW846 8260B
2-Chlorotoluene	< 0.19	0.19	0.61		ug/L		12/19/00	SW846 8260B
4-Chlorotoluene	< 0.21	0.21	0.67		ug/L		12/19/00	SW846 8260B
Carbon tetrachloride	< 0.22	0.22	0.70		ug/L		12/19/00	SW846 8260B
Chlorodibromomethane	< 2.8	2.8	8.9		ug/L		12/19/00	SW846 8260B
Chlorobenzene	< 0.19	0.19	0.61		ug/L		12/19/00	SW846 8260B
Chloroethane	2.3	0.46	1.5		ug/L		12/19/00	SW846 8260B
Chloroform	< 0.29	0.29	0.92		ug/L		12/19/00	SW846 8260B
Chloromethane	< 0.42	0.42	1.3		ug/L		12/19/00	SW846 8260B
1,1-Dichloroethane	5.0	0.17	0.54		ug/L		12/19/00	SW846 8260B
1,1-Dichloroethene	1.3	0.85	2.7		ug/L	Q	12/19/00	SW846 8260B
1,1-Dichloropropene	< 0.46	0.46	1.5		ug/L		12/19/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.69	0.69	2.2		ug/L		12/19/00	SW846 8260B
1,2-Dibromoethane	< 0.42	0.42	1.3		ug/L		12/19/00	SW846 8260B
1,2-Dichlorobenzene	< 0.20	0.20	0.64		ug/L		12/19/00	SW846 8260B
1,2-Dichloroethane	< 0.21	0.21	0.67		ug/L		12/19/00	SW846 8260B
1,2-Dichloropropane	< 0.23	0.23	0.73		ug/L		12/19/00	SW846 8260B
1,3-Dichlorobenzene	< 0.12	0.12	0.38		ug/L		12/19/00	SW846 8260B
1,3-Dichloropropane	< 1.4	1.4	4.5		ug/L		12/19/00	SW846 8260B
1,4-Dichlorobenzene	< 0.31	0.31	0.99		ug/L		12/19/00	SW846 8260B
2,2-Dichloropropane	< 0.28	0.28	0.89		ug/L		12/19/00	SW846 8260B
Dichlorodifluoromethane	< 0.12	0.12	0.38		ug/L		12/19/00	SW846 8260B
Dibromomethane	< 0.22	0.22	0.70		ug/L		12/19/00	SW846 8260B
trans-1,2-Dichloroethene	5.1	0.35	1.1		ug/L		12/19/00	SW846 8260B
Ethylbenzene	< 0.57	0.57	1.8		ug/L		12/19/00	SW846 8260B

- Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Field ID : LH 1

Lab Sample Number : 806095-008

WI DNR LAB ID : 405132750

Client : EARTH TECH INC

Report Date : 12/29/00

Collection Date : 12/13/00

Matrix Type : WATER

Hexachlorobutadiene	< 0.43	0.43	1.4	ug/L		12/19/00	SW846 8260B
p-Isopropyltoluene	< 0.25	0.25	0.80	ug/L		12/19/00	SW846 8260B
Isopropylbenzene	< 0.19	0.19	0.61	ug/L		12/19/00	SW846 8260B
Methylene chloride	0.71	0.36	1.1	ug/L	Q	12/19/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.20	0.20	0.64	ug/L		12/19/00	SW846 8260B
Naphthalene	< 0.27	0.27	0.86	ug/L		12/19/00	SW846 8260B
n-Propylbenzene	< 0.17	0.17	0.54	ug/L		12/19/00	SW846 8260B
Styrene	< 0.72	0.72	2.3	ug/L		12/19/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.30	0.30	0.96	ug/L		12/19/00	SW846 8260B
1,1,1-Trichloroethane	< 0.21	0.21	0.67	ug/L		12/19/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.22	0.22	0.70	ug/L		12/19/00	SW846 8260B
1,1,2-Trichloroethane	< 0.33	0.33	1.1	ug/L		12/19/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.30	0.30	0.96	ug/L		12/19/00	SW846 8260B
1,2,3-Trichloropropane	< 0.89	0.89	2.8	ug/L		12/19/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.24	0.24	0.76	ug/L		12/19/00	SW846 8260B
Fluorotrichloromethane	< 0.31	0.31	0.99	ug/L		12/19/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.34	0.34	1.1	ug/L		12/19/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.29	0.29	0.92	ug/L		12/19/00	SW846 8260B
Trichloroethene	25	0.32	1.0	ug/L		12/19/00	SW846 8260B
Tetrachloroethene	4.2	0.85	2.7	ug/L		12/19/00	SW846 8260B
Toluene	< 1.1	1.1	3.5	ug/L		12/19/00	SW846 8260B
Vinyl chloride	130	0.19	0.61	ug/L		12/19/00	SW846 8260B
Xylenes, -m, -p	< 0.35	0.35	1.1	ug/L		12/19/00	SW846 8260B
Xylene, -o	< 0.28	0.28	0.89	ug/L		12/19/00	SW846 8260B
4-Bromofluorobenzene	120			%Recov		12/19/00	SW846 8260B
Dibromofluoromethane	100			%Recov		12/19/00	SW846 8260B
Toluene-d8	125			%Recov		12/19/00	SW846 8260B

**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Field ID : P4B

Lab Sample Number : 806095-009

WI DNR LAB ID : 405132750

Client : EARTH TECH INC

Report Date : 12/29/00

Collection Date : 12/13/00

Matrix Type : WATER

**Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030B Prep Date: 12/18/00 Analyst: HW

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.29	0.29	0.92		ug/L		12/19/00	SW846 8260B
n-Butylbenzene	< 0.28	0.28	0.89		ug/L		12/19/00	SW846 8260B
Bromochloromethane	< 0.56	0.56	1.8		ug/L		12/19/00	SW846 8260B
Bromodichloromethane	< 0.30	0.30	0.96		ug/L		12/19/00	SW846 8260B
Bromobenzene	< 0.35	0.35	1.1		ug/L		12/19/00	SW846 8260B
Bromoform	< 0.24	0.24	0.76		ug/L		12/19/00	SW846 8260B
Bromomethane	< 0.62	0.62	2.0		ug/L		12/19/00	SW846 8260B
s-Butylbenzene	< 0.20	0.20	0.64		ug/L		12/19/00	SW846 8260B
t-Butylbenzene	< 0.23	0.23	0.73		ug/L		12/19/00	SW846 8260B
2-Chlorotoluene	< 0.19	0.19	0.61		ug/L		12/19/00	SW846 8260B
4-Chlorotoluene	< 0.21	0.21	0.67		ug/L		12/19/00	SW846 8260B
Carbon tetrachloride	< 0.22	0.22	0.70		ug/L		12/19/00	SW846 8260B
Chlorodibromomethane	< 2.8	2.8	8.9		ug/L		12/19/00	SW846 8260B
Chlorobenzene	< 0.19	0.19	0.61		ug/L		12/19/00	SW846 8260B
Chloroethane	< 0.46	0.46	1.5		ug/L		12/19/00	SW846 8260B
Chloroform	< 0.29	0.29	0.92		ug/L		12/19/00	SW846 8260B
Chloromethane	< 0.42	0.42	1.3		ug/L		12/19/00	SW846 8260B
1,1-Dichloroethane	< 0.17	0.17	0.54		ug/L		12/19/00	SW846 8260B
1,1-Dichloroethene	< 0.85	0.85	2.7		ug/L		12/19/00	SW846 8260B
1,1-Dichloropropene	< 0.46	0.46	1.5		ug/L		12/19/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.69	0.69	2.2		ug/L		12/19/00	SW846 8260B
1,2-Dibromoethane	< 0.42	0.42	1.3		ug/L		12/19/00	SW846 8260B
1,2-Dichlorobenzene	< 0.20	0.20	0.64		ug/L		12/19/00	SW846 8260B
1,2-Dichloroethane	< 0.21	0.21	0.67		ug/L		12/19/00	SW846 8260B
1,2-Dichloropropane	< 0.23	0.23	0.73		ug/L		12/19/00	SW846 8260B
1,3-Dichlorobenzene	< 0.12	0.12	0.38		ug/L		12/19/00	SW846 8260B
1,3-Dichloropropane	< 1.4	1.4	4.5		ug/L		12/19/00	SW846 8260B
1,4-Dichlorobenzene	< 0.31	0.31	0.99		ug/L		12/19/00	SW846 8260B
2,2-Dichloropropane	< 0.28	0.28	0.89		ug/L		12/19/00	SW846 8260B
Dichlorodifluoromethane	< 0.12	0.12	0.38		ug/L		12/19/00	SW846 8260B
Dibromomethane	< 0.22	0.22	0.70		ug/L		12/19/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.35	0.35	1.1		ug/L		12/19/00	SW846 8260B
Ethylbenzene	< 0.57	0.57	1.8		ug/L		12/19/00	SW846 8260B



**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Client : EARTH TECH INC**

**Field ID : P4B**

**Report Date : 12/29/00**

**Lab Sample Number : 806095-009**

**Collection Date : 12/13/00**

**WI DNR LAB ID : 405132750**

**Matrix Type : WATER**

Hexachlorobutadiene	< 0.43	0.43	1.4	ug/L	12/19/00	SW846 8260B
p-Isopropyltoluene	< 0.25	0.25	0.80	ug/L	12/19/00	SW846 8260B
Isopropylbenzene	< 0.19	0.19	0.61	ug/L	12/19/00	SW846 8260B
Methylene chloride	< 0.36	0.36	1.1	ug/L	12/19/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.20	0.20	0.64	ug/L	12/19/00	SW846 8260B
Naphthalene	< 0.27	0.27	0.86	ug/L	12/19/00	SW846 8260B
n-Propylbenzene	< 0.17	0.17	0.54	ug/L	12/19/00	SW846 8260B
Styrene	< 0.72	0.72	2.3	ug/L	12/19/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.30	0.30	0.96	ug/L	12/19/00	SW846 8260B
1,1,1-Trichloroethane	< 0.21	0.21	0.67	ug/L	12/19/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.22	0.22	0.70	ug/L	12/19/00	SW846 8260B
1,1,2-Trichloroethane	< 0.33	0.33	1.1	ug/L	12/19/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.30	0.30	0.96	ug/L	12/19/00	SW846 8260B
i,2,3-Trichloropropane	< 0.89	0.89	2.8	ug/L	12/19/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.24	0.24	0.76	ug/L	12/19/00	SW846 8260B
Fluorotrichloromethane	< 0.31	0.31	0.99	ug/L	12/19/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.34	0.34	1.1	ug/L	12/19/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.29	0.29	0.92	ug/L	12/19/00	SW846 8260B
Trichloroethene	1.6	0.32	1.0	ug/L	12/19/00	SW846 8260B
Tetrachloroethene	< 0.85	0.85	2.7	ug/L	12/19/00	SW846 8260B
Toluene	< 1.1	1.1	3.5	ug/L	12/19/00	SW846 8260B
Vinyl chloride	0.89	0.19	0.61	ug/L	12/19/00	SW846 8260B
Xylenes, -m, -p	< 0.35	0.35	1.1	ug/L	12/19/00	SW846 8260B
Xylene, -o	< 0.28	0.28	0.89	ug/L	12/19/00	SW846 8260B
4-Bromofluorobenzene	120			%Recov	12/19/00	SW846 8260B
Dibromofluoromethane	101			%Recov	12/19/00	SW846 8260B
Toluene-d8	125			%Recov	12/19/00	SW846 8260B

**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Client : EARTH TECH INC

Field ID : P7B

Report Date : 12/29/00

Lab Sample Number : 806095-010

Collection Date : 12/13/00

WI DNR LAB ID : 405132750

Matrix Type : WATER

**Organic Results****SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030B Prep Date: 12/18/00 Analyst: HW

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.29	0.29	0.92		ug/L		12/19/00	SW846 8260B
n-Butylbenzene	< 0.28	0.28	0.89		ug/L		12/19/00	SW846 8260B
Bromochloromethane	< 0.56	0.56	1.8		ug/L		12/19/00	SW846 8260B
Bromodichloromethane	< 0.30	0.30	0.96		ug/L		12/19/00	SW846 8260B
Bromobenzene	< 0.35	0.35	1.1		ug/L		12/19/00	SW846 8260B
Bromoform	< 0.24	0.24	0.76		ug/L		12/19/00	SW846 8260B
Bromomethane	< 0.62	0.62	2.0		ug/L		12/19/00	SW846 8260B
s-Butylbenzene	< 0.20	0.20	0.64		ug/L		12/19/00	SW846 8260B
t-Butylbenzene	< 0.23	0.23	0.73		ug/L		12/19/00	SW846 8260B
2-Chlorotoluene	< 0.19	0.19	0.61		ug/L		12/19/00	SW846 8260B
4-Chlorotoluene	< 0.21	0.21	0.67		ug/L		12/19/00	SW846 8260B
Carbon tetrachloride	< 0.22	0.22	0.70		ug/L		12/19/00	SW846 8260B
Chlorodibromomethane	< 2.8	2.8	8.9		ug/L		12/19/00	SW846 8260B
Chlorobenzene	< 0.19	0.19	0.61		ug/L		12/19/00	SW846 8260B
Chloroethane	< 0.46	0.46	1.5		ug/L		12/19/00	SW846 8260B
Chloroform	< 0.29	0.29	0.92		ug/L		12/19/00	SW846 8260B
Chloromethane	< 0.42	0.42	1.3		ug/L		12/19/00	SW846 8260B
1,1-Dichloroethane	< 0.17	0.17	0.54		ug/L		12/19/00	SW846 8260B
1,1-Dichloroethene	< 0.85	0.85	2.7		ug/L		12/19/00	SW846 8260B
1,1-Dichloropropene	< 0.46	0.46	1.5		ug/L		12/19/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.69	0.69	2.2		ug/L		12/19/00	SW846 8260B
1,2-Dibromoethane	< 0.42	0.42	1.3		ug/L		12/19/00	SW846 8260B
1,2-Dichlorobenzene	< 0.20	0.20	0.64		ug/L		12/19/00	SW846 8260B
1,2-Dichloroethane	< 0.21	0.21	0.67		ug/L		12/19/00	SW846 8260B
1,2-Dichloropropane	< 0.23	0.23	0.73		ug/L		12/19/00	SW846 8260B
1,3-Dichlorobenzene	< 0.12	0.12	0.38		ug/L		12/19/00	SW846 8260B
1,3-Dichloropropane	< 1.4	1.4	4.5		ug/L		12/19/00	SW846 8260B
1,4-Dichlorobenzene	< 0.31	0.31	0.99		ug/L		12/19/00	SW846 8260B
2,2-Dichloropropane	< 0.28	0.28	0.89		ug/L		12/19/00	SW846 8260B
Dichlorodifluoromethane	< 0.12	0.12	0.38		ug/L		12/19/00	SW846 8260B
Dibromomethane	< 0.22	0.22	0.70		ug/L		12/19/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.35	0.35	1.1		ug/L		12/19/00	SW846 8260B
Ethylbenzene	< 0.57	0.57	1.8		ug/L		12/19/00	SW846 8260B

**- Analytical Report -**

**Project Name : VILLAGE OF GRAFTON**

**Project Number : 30250**

**Client : EARTH TECH INC**

**Field ID : P7B**

**Report Date : 12/29/00**

**Lab Sample Number : 806095-010**

**Collection Date : 12/13/00**

**WI DNR LAB ID : 405132750**

**Matrix Type : WATER**

Hexachlorobutadiene	< 0.43	0.43	1.4	ug/L		12/19/00	SW846 8260B
p-Isopropyltoluene	< 0.25	0.25	0.80	ug/L		12/19/00	SW846 8260B
Isopropylbenzene	< 0.19	0.19	0.61	ug/L		12/19/00	SW846 8260B
Methylene chloride	< 0.36	0.36	1.1	ug/L		12/19/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.20	0.20	0.64	ug/L		12/19/00	SW846 8260B
Naphthalene	< 0.27	0.27	0.86	ug/L		12/19/00	SW846 8260B
n-Propylbenzene	< 0.17	0.17	0.54	ug/L		12/19/00	SW846 8260B
Styrene	< 0.72	0.72	2.3	ug/L		12/19/00	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.30	0.30	0.96	ug/L		12/19/00	SW846 8260B
1,1,1-Trichloroethane	< 0.21	0.21	0.67	ug/L		12/19/00	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.22	0.22	0.70	ug/L		12/19/00	SW846 8260B
1,1,2-Trichloroethane	< 0.33	0.33	1.1	ug/L		12/19/00	SW846 8260B
1,2,3-Trichlorobenzene	< 0.30	0.30	0.96	ug/L		12/19/00	SW846 8260B
1,2,3-Trichloropropane	< 0.89	0.89	2.8	ug/L		12/19/00	SW846 8260B
1,2,4-Trichlorobenzene	< 0.24	0.24	0.76	ug/L		12/19/00	SW846 8260B
Fluorotrichloromethane	< 0.31	0.31	0.99	ug/L		12/19/00	SW846 8260B
1,2,4-Trimethylbenzene	< 0.34	0.34	1.1	ug/L		12/19/00	SW846 8260B
1,3,5-Trimethylbenzene	< 0.29	0.29	0.92	ug/L		12/19/00	SW846 8260B
Trichloroethene	0.75	0.32	1.0	ug/L	Q	12/19/00	SW846 8260B
Tetrachloroethene	< 0.85	0.85	2.7	ug/L		12/19/00	SW846 8260B
Toluene	< 1.1	1.1	3.5	ug/L		12/19/00	SW846 8260B
Vinyl chloride	0.35	0.19	0.61	ug/L	Q	12/19/00	SW846 8260B
Xylenes, -m, -p	< 0.35	0.35	1.1	ug/L		12/19/00	SW846 8260B
Xylene, -o	< 0.28	0.28	0.89	ug/L		12/19/00	SW846 8260B
4-Bromofluorobenzene	119			%Recov		12/19/00	SW846 8260B
Dibromofluoromethane	103			%Recov		12/19/00	SW846 8260B
Toluene-d8	126			%Recov		12/19/00	SW846 8260B

- Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Field ID : PW1788MD

Lab Sample Number : 806109-001

WI DNR LAB ID : 405132750

Client : EARTH TECH INC

Report Date : 12/29/00

Collection Date : 12/15/00

Matrix Type : WATER

Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030B

Prep Date: 12/19/00

Analyst: HW

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Acetone	< 2.8	2.8	8.9		ug/L		12/20/00	SW846 8260B
2-Butanone	< 3.0	3.0	9.6		ug/L		12/20/00	SW846 8260B
Benzene	< 0.29	0.29	0.92		ug/L		12/20/00	SW846 8260B
Bromodichloromethane	< 0.30	0.30	0.96		ug/L		12/20/00	SW846 8260B
Bromoform	< 0.24	0.24	0.76		ug/L		12/20/00	SW846 8260B
Bromomethane	< 0.62	0.62	2.0		ug/L		12/20/00	SW846 8260B
Carbon disulfide	< 0.24	0.24	0.76		ug/L		12/20/00	SW846 8260B
Carbon tetrachloride	< 0.22	0.22	0.70		ug/L		12/20/00	SW846 8260B
Chlorodibromomethane	< 2.8	2.8	8.9		ug/L		12/20/00	SW846 8260B
Chlorobenzene	< 0.19	0.19	0.61		ug/L		12/20/00	SW846 8260B
Chloroethane	< 0.46	0.46	1.5		ug/L		12/20/00	SW846 8260B
Chloroform	< 0.29	0.29	0.92		ug/L		12/20/00	SW846 8260B
Chloromethane	< 0.42	0.42	1.3		ug/L		12/20/00	SW846 8260B
1,1-Dichloroethane	< 0.17	0.17	0.54		ug/L		12/20/00	SW846 8260B
1,1-Dichloroethene	< 0.85	0.85	2.7		ug/L		12/20/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.69	0.69	2.2		ug/L		12/20/00	SW846 8260B
1,2-Dibromoethane	< 0.42	0.42	1.3		ug/L		12/20/00	SW846 8260B
1,2-Dichlorobenzene	< 0.20	0.20	0.64		ug/L		12/20/00	SW846 8260B
1,2-Dichloroethane	< 0.21	0.21	0.67		ug/L		12/20/00	SW846 8260B
1,2-Dichloropropane	< 0.23	0.23	0.73		ug/L		12/20/00	SW846 8260B
1,3-Dichlorobenzene	< 0.12	0.12	0.38		ug/L		12/20/00	SW846 8260B
1,4-Dichlorobenzene	< 0.31	0.31	0.99		ug/L		12/20/00	SW846 8260B
Dichlorodifluoromethane	< 0.12	0.12	0.38		ug/L		12/20/00	SW846 8260B
cis-1,2-Dichloroethene	0.44	0.27	0.86		ug/L	Q	12/20/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.23	0.23	0.73		ug/L		12/20/00	SW846 8260B
Dibromomethane	< 0.22	0.22	0.70		ug/L		12/20/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.35	0.35	1.1		ug/L		12/20/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.23	0.23	0.73		ug/L		12/20/00	SW846 8260B
Ethylbenzene	< 0.57	0.57	1.8		ug/L		12/20/00	SW846 8260B
Methylene chloride	0.57	0.36	1.1		ug/L	Q	12/20/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.20	0.20	0.64		ug/L		12/20/00	SW846 8260B
Naphthalene	< 0.27	0.27	0.86		ug/L		12/20/00	SW846 8260B
Styrene	< 0.72	0.72	2.3		ug/L		12/20/00	SW846 8260B

- Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Field ID : PW1788MD

Lab Sample Number : 806109-001

WI DNR LAB ID : 405132750

Client : EARTH TECH INC

Report Date : 12/29/00

Collection Date : 12/15/00

Matrix Type : WATER

---

1,1,1-Trichloroethane	< 0.21	0.21	0.67	ug/L	12/20/00	SW846 8260B
Tetrachloroethene	< 0.85	0.85	2.7	ug/L	12/20/00	SW846 8260B
Tetrahydrofuran	< 1.6	1.6	5.1	ug/L	12/20/00	SW846 8260B
Toluene	< 0.13	0.13	0.41	ug/L	12/20/00	SW846 8260B
4-Bromofluorobenzene	89			%Recov	12/20/00	SW846 8260B
Dibromofluoromethane	94			%Recov	12/20/00	SW846 8260B
Toluene-d8	99			%Recov	12/20/00	SW846 8260B

**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Field ID : PW1749MD

Lab Sample Number : 806109-002

WI DNR LAB ID : 405132750

Client : EARTH TECH INC

Report Date : 12/29/00

Collection Date : 12/15/00

Matrix Type : WATER

**Organic Results**

**SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030B Prep Date: 12/19/00 Analyst: JJB

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Acetone	< 2.8	2.8	8.9		ug/L		12/26/00	SW846 8260B
2-Butanone	< 3.0	3.0	9.6		ug/L		12/26/00	SW846 8260B
Benzene	< 0.29	0.29	0.92		ug/L		12/26/00	SW846 8260B
Bromodichloromethane	< 0.30	0.30	0.96		ug/L		12/26/00	SW846 8260B
Bromoform	< 0.24	0.24	0.76		ug/L		12/26/00	SW846 8260B
Bromomethane	< 0.62	0.62	2.0		ug/L		12/26/00	SW846 8260B
Carbon disulfide	< 0.24	0.24	0.76		ug/L		12/26/00	SW846 8260B
Carbon tetrachloride	< 0.22	0.22	0.70		ug/L		12/26/00	SW846 8260B
Chlorodibromomethane	< 2.8	2.8	8.9		ug/L		12/26/00	SW846 8260B
Chlorobenzene	< 0.19	0.19	0.61		ug/L		12/26/00	SW846 8260B
Chloroethane	< 0.46	0.46	1.5		ug/L		12/26/00	SW846 8260B
Chloroform	< 0.29	0.29	0.92		ug/L		12/26/00	SW846 8260B
Chloromethane	< 0.42	0.42	1.3		ug/L		12/26/00	SW846 8260B
1,1-Dichloroethane	0.98	0.17	0.54		ug/L		12/26/00	SW846 8260B
1,1-Dichloroethene	< 0.85	0.85	2.7		ug/L		12/26/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.69	0.69	2.2		ug/L		12/26/00	SW846 8260B
1,2-Dibromoethane	< 0.42	0.42	1.3		ug/L		12/26/00	SW846 8260B
1,2-Dichlorobenzene	< 0.20	0.20	0.64		ug/L		12/26/00	SW846 8260B
1,2-Dichloroethane	< 0.21	0.21	0.67		ug/L		12/26/00	SW846 8260B
1,2-Dichloropropane	< 0.23	0.23	0.73		ug/L		12/26/00	SW846 8260B
1,3-Dichlorobenzene	< 0.12	0.12	0.38		ug/L		12/26/00	SW846 8260B
1,4-Dichlorobenzene	< 0.31	0.31	0.99		ug/L		12/26/00	SW846 8260B
Dichlorodifluoromethane	< 0.12	0.12	0.38		ug/L		12/26/00	SW846 8260B
cis-1,2-Dichloroethene	150	0.27	0.86		ug/L		12/26/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.23	0.23	0.73		ug/L		12/26/00	SW846 8260B
Dibromomethane	< 0.22	0.22	0.70		ug/L		12/26/00	SW846 8260B
trans-1,2-Dichloroethene	0.97	0.35	1.1		ug/L	Q	12/26/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.23	0.23	0.73		ug/L		12/26/00	SW846 8260B
Ethylbenzene	< 0.57	0.57	1.8		ug/L		12/26/00	SW846 8260B
Methylene chloride	< 0.36	0.36	1.1		ug/L		12/26/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.20	0.20	0.64		ug/L		12/26/00	SW846 8260B
Naphthalene	< 0.27	0.27	0.86		ug/L		12/26/00	SW846 8260B
Styrene	< 0.72	0.72	2.3		ug/L		12/26/00	SW846 8260B

## - Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Field ID : PW1749MD

Lab Sample Number : 806109-002

WI DNR LAB ID : 405132750

Client : EARTH TECH INC

Report Date : 12/29/00

Collection Date : 12/15/00

Matrix Type : WATER

---

1,1,1-Trichloroethane	1.4	0.21	0.67	ug/L	12/26/00	SW846 8260B
Tetrachloroethene	< 0.85	0.85	2.7	ug/L	12/26/00	SW846 8260B
Tetrahydrofuran	< 1.6	1.6	5.1	ug/L	12/26/00	SW846 8260B
Toluene	< 0.13	0.13	0.41	ug/L	12/26/00	SW846 8260B
4-Bromofluorobenzene	87			%Recov	12/26/00	SW846 8260B
Dibromofluoromethane	91			%Recov	12/26/00	SW846 8260B
Toluene-d8	88			%Recov	12/26/00	SW846 8260B



**- Analytical Report -**

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Client : EARTH TECH INC

Field ID : P8A

Report Date : 12/29/00

Lab Sample Number : 806109-003

Collection Date : 12/15/00

WI DNR LAB ID : 405132750

Matrix Type : WATER

**Organic Results****SPECIAL VOLATILE LIST - WATER**

Prep Method: SW846 5030B Prep Date: 12/19/00 Analyst: HW

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Acetone	< 7.0	7.0	22		ug/L		12/22/00	SW846 8260B
2-Butanone	< 7.5	7.5	24		ug/L		12/22/00	SW846 8260B
Benzene	< 0.72	0.72	2.3		ug/L		12/22/00	SW846 8260B
Bromodichloromethane	< 0.75	0.75	2.4		ug/L		12/22/00	SW846 8260B
Bromoform	< 0.60	0.60	1.9		ug/L		12/22/00	SW846 8260B
Bromomethane	< 1.6	1.6	5.1		ug/L		12/22/00	SW846 8260B
Carbon disulfide	< 0.60	0.60	1.9		ug/L		12/22/00	SW846 8260B
Carbon tetrachloride	< 0.55	0.55	1.8		ug/L		12/22/00	SW846 8260B
Chlorodibromomethane	< 7.0	7.0	22		ug/L		12/22/00	SW846 8260B
Chlorobenzene	< 0.47	0.47	1.5		ug/L		12/22/00	SW846 8260B
Chloroethane	< 1.2	1.2	3.8		ug/L		12/22/00	SW846 8260B
Chloroform	< 0.72	0.72	2.3		ug/L		12/22/00	SW846 8260B
Chloromethane	< 1.1	1.1	3.5		ug/L		12/22/00	SW846 8260B
1,1-Dichloroethane	43	0.43	1.4		ug/L		12/22/00	SW846 8260B
1,1-Dichloroethene	3.1	2.1	6.7		ug/L	Q	12/22/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.7	1.7	5.4		ug/L		12/22/00	SW846 8260B
1,2-Dibromoethane	< 1.1	1.1	3.5		ug/L		12/22/00	SW846 8260B
1,2-Dichlorobenzene	< 0.50	0.50	1.6		ug/L		12/22/00	SW846 8260B
1,2-Dichloroethane	< 0.53	0.53	1.7		ug/L		12/22/00	SW846 8260B
1,2-Dichloropropane	< 0.58	0.58	1.8		ug/L		12/22/00	SW846 8260B
1,3-Dichlorobenzene	< 0.30	0.30	0.96		ug/L		12/22/00	SW846 8260B
1,4-Dichlorobenzene	< 0.78	0.78	2.5		ug/L		12/22/00	SW846 8260B
Dichlorodifluoromethane	< 0.30	0.30	0.96		ug/L		12/22/00	SW846 8260B
cis-1,2-Dichloroethene	150	0.68	2.2		ug/L		12/22/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.58	0.58	1.8		ug/L		12/22/00	SW846 8260B
Dibromomethane	< 0.55	0.55	1.8		ug/L		12/22/00	SW846 8260B
trans-1,2-Dichloroethene	3.5	0.87	2.8		ug/L		12/22/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.58	0.58	1.8		ug/L		12/22/00	SW846 8260B
Ethylbenzene	< 1.4	1.4	4.5		ug/L		12/22/00	SW846 8260B
Methylene chloride	< 0.90	0.90	2.9		ug/L		12/22/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.50	0.50	1.6		ug/L		12/22/00	SW846 8260B
Naphthalene	< 0.68	0.68	2.2		ug/L		12/22/00	SW846 8260B
Styrene	< 1.8	1.8	5.7		ug/L		12/22/00	SW846 8260B

- Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Field ID : P8A

Lab Sample Number : 806109-003

WI DNR LAB ID : 405132750

Client : EARTH TECH INC

Report Date : 12/29/00

Collection Date : 12/15/00

Matrix Type : WATER

---

1,1,1-Trichloroethane	12	0.53	1.7	ug/L	12/22/00	SW846 8260B
Tetrachloroethene	< 2.1	2.1	6.7	ug/L	12/22/00	SW846 8260B
Tetrahydrofuran	< 4.0	4.0	13	ug/L	12/22/00	SW846 8260B
Toluene	< 0.33	0.33	1.1	ug/L	12/22/00	SW846 8260B
4-Bromofluorobenzene	108			%Recov	12/22/00	SW846 8260B
Dibromofluoromethane	113			%Recov	12/22/00	SW846 8260B
Toluene-d8	120			%Recov	12/22/00	SW846 8260B

- Analytical Report -

Project Name : VILLAGE OF GRAFTON

Project Number : 30250

Client : EARTH TECH INC

Field ID : TRIP BLK

Report Date : 12/26/00

Lab Sample Number : 806109-004

Collection Date : 12/15/00

WI DNR LAB ID : 405132750

Matrix Type : WATER

Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030B Prep Date: 12/19/00 Analyst: HW

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Acetone	< 2.8	2.8	8.9		ug/L		12/22/00	SW846 8260B
2-Butanone	< 3.0	3.0	9.6		ug/L		12/22/00	SW846 8260B
Benzene	< 0.29	0.29	0.92		ug/L		12/22/00	SW846 8260B
Bromodichloromethane	< 0.30	0.30	0.96		ug/L		12/22/00	SW846 8260B
Bromoform	< 0.24	0.24	0.76		ug/L		12/22/00	SW846 8260B
Bromomethane	< 0.62	0.62	2.0		ug/L		12/22/00	SW846 8260B
Carbon disulfide	< 0.24	0.24	0.76		ug/L		12/22/00	SW846 8260B
Carbon tetrachloride	< 0.22	0.22	0.70		ug/L		12/22/00	SW846 8260B
Chlorodibromomethane	< 2.8	2.8	8.9		ug/L		12/22/00	SW846 8260B
Chlorobenzene	< 0.19	0.19	0.61		ug/L		12/22/00	SW846 8260B
Chloroethane	< 0.46	0.46	1.5		ug/L		12/22/00	SW846 8260B
Chloroform	< 0.29	0.29	0.92		ug/L		12/22/00	SW846 8260B
Chloromethane	< 0.42	0.42	1.3		ug/L		12/22/00	SW846 8260B
1,1-Dichloroethane	< 0.17	0.17	0.54		ug/L		12/22/00	SW846 8260B
1,1-Dichloroethene	< 0.85	0.85	2.7		ug/L		12/22/00	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.69	0.69	2.2		ug/L		12/22/00	SW846 8260B
1,2-Dibromoethane	< 0.42	0.42	1.3		ug/L		12/22/00	SW846 8260B
1,2-Dichlorobenzene	< 0.20	0.20	0.64		ug/L		12/22/00	SW846 8260B
1,2-Dichloroethane	< 0.21	0.21	0.67		ug/L		12/22/00	SW846 8260B
1,2-Dichloropropane	< 0.23	0.23	0.73		ug/L		12/22/00	SW846 8260B
1,3-Dichlorobenzene	< 0.12	0.12	0.38		ug/L		12/22/00	SW846 8260B
1,4-Dichlorobenzene	< 0.31	0.31	0.99		ug/L		12/22/00	SW846 8260B
Dichlorodifluoromethane	< 0.12	0.12	0.38		ug/L		12/22/00	SW846 8260B
cis-1,2-Dichloroethene	< 0.27	0.27	0.86		ug/L		12/22/00	SW846 8260B
cis-1,3-Dichloropropene	< 0.23	0.23	0.73		ug/L		12/22/00	SW846 8260B
Dibromomethane	< 0.22	0.22	0.70		ug/L		12/22/00	SW846 8260B
trans-1,2-Dichloroethene	< 0.35	0.35	1.1		ug/L		12/22/00	SW846 8260B
trans-1,3-Dichloropropene	< 0.23	0.23	0.73		ug/L		12/22/00	SW846 8260B
Ethylbenzene	< 0.57	0.57	1.8		ug/L		12/22/00	SW846 8260B
Methylene chloride	2.9	0.36	1.1		ug/L		12/22/00	SW846 8260B
Methyl-tert-butyl-ether	< 0.20	0.20	0.64		ug/L		12/22/00	SW846 8260B
Naphthalene	< 0.27	0.27	0.86		ug/L		12/22/00	SW846 8260B