## Phase 2.5 Environmental Sampling Investigation

## STH 97 Reconstruction Project Former Engelbrecht Building 233 Alfred Street Athens, Wisconsin

WisDOT Project I.D. 9535-02-71

Prepared for:
Wisconsin Department of Transportation
Bureau of Equity & Environmental Services
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July 2005

Earth Tech Project No. 79581

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Date

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July 2005

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QUEST, 2001, Phase I Hazardous Waste Reconnaissance Investigation Report for STH 97 (CTH M to Black Creek Bridge) ID# 9535-02-71

QUEST, 2001a; Letter Response to Phase I Hazardous Waste Reconnaissance Investigation Report for STH 97 (CHT M to Black Creek Bridge) ID No. 9535-02-71

## LIST OF ABBREVIATIONS

bgs below ground surface i.u. below ground surface

kg kilogram
I liter
mg milligram
ppm parts per million
µg microgram

BRRTS Bureau of Remediation and Redevelopment Tracking System

COMM Wisconsin Department of Commerce

DCA Dichloroethane

DNR Wisconsin Department of Natural Resources

DRO Diesel Range Organics

EPA U.S. Environmental Protection Agency

GRO Gasoline Range Organics

MEOH Methanol

PAHs Polyaromatic Hydrocarbons
PAL Preventive Action Limit

PVOCs Petroleum Volatile Organic Compounds

PID Photoionization Detector RCL Residual Containment Level

ROW Right of Way

SSL Soil Screening Level
STH State Trunk Highway
USGS U.S. Geological Survey
UST Underground Storage Tank
VOCs Volatile Organic Compounds

WisDOT Wisconsin Department of Transportation

WGNHS Wisconsin Geological and Natural History Survey

## 1.0 EXECUTIVE SUMMARY

This report summarizes the results of a Phase 2.5 Environmental Sampling Investigation conducted by Earth Tech, Inc., within the planned construction limits next to the Former Engelbrecht Building, 233 Alfred Street, Athens, Wisconsin. The Phase 1 Hazardous Waste Reconnaissance Investigation Report (Phase 1 Report) identified a dry cleaning business that formerly operated inside the building (QUEST, 2001).

The investigation was part of an overall WisDOT work order (No. 39) to investigate ROW next to seven properties identified within 0.43 mile of STH 97 designated for reconstruction. Six properties needing further investigation were identified in the Phase I Report, and Earth Tech identified a seventh site during a follow-up interview.

The purpose of this investigation was to determine the presence and extent of soil and/or groundwater contamination within construction limits for managing hazardous materials during highway reconstruction. Reconstruction includes highway improvements coupled with sidewalks and storm sewer replacement. The Village of Athens will concurrently replace the sanitary sewer and water main. Highway reconstruction is scheduled to begin in May 2005.

During the field investigation completed by Earth Tech in August 2004, five subsurface borings were advanced to approximately 12 feet bgs in the ROW next to the Former Engelbrecht Building. A subsurface soil sample was selected from each boring for laboratory analysis of VOCs.

## 1.1 FINDINGS AND CONCLUSIONS

The following findings and conclusions are based on data and information collected during the Phase 2.5 Environmental Sampling Investigation conducted by Earth Tech:

- 1. Subsurface materials were classified as lean clay (CL) or clayey sand (SC) with lesser amounts of clayey gravel (GC) and poorly graded sand (SP). Colors were mainly oxidized consisting of reddish brown (Munsell 5YR 4/6), reddish yellow (5YR 6/4), and brown (7.5YR 4/4).
- 2. Groundwater did not accumulate in the open boreholes, and no water samples were collected from this site.
- 3. A low-level concentration of tetrachloroethylene was detected in the soil sample collected from Boring B-8. There is no regulatory cleanup standard for tetrachloroethylene in soil.

## 1.2 OPINIONS

The following opinions are developed from the data and information collected by Earth Tech during the Phase 2.5 Environmental Sampling Investigation associated with the site:

1. The apparent extent of low-level tetrachloroethylene contaminated soil is beyond planned excavation limits.

- 2. Site dewatering is not anticipated during construction next to this site.
- 3. A "Notice to Contractor" should be placed in the contract special provisions notifying the construction contractor of the potential for encountering low levels of impacted soil within construction limits next to this site.

## 2.0 SITE INVESTIGATION

## 2.1 BACKGROUND

The site is currently a parking lot owned by the Village of Athens Fire Commission. QUEST (2001) reported that a dry cleaning business formerly operated on the property. QUEST initially recommended no further action, because no evidence of contamination was observed or documented at the site. In a subsequent update to the Phase 1 report, QUEST (2001a) changed their opinion regarding the need for further action and recommended a Phase 2.5 investigation.

Highway reconstruction will include the removal and replacement of pavement and storm sewer installation. No additional ROW is anticipated for acquisition. The Village of Athens will install water main and sanitary sewer concurrent with highway construction. Highway reconstruction is scheduled to begin in May 2005.

## 2.2 PURPOSE AND SCOPE

The purpose of the investigation was to determine the presence and extent of contaminated soil and/or groundwater within construction limits at the site.

The Phase 2.5 scope of work included:

- 1. Advancing five soil probe borings (B-8, B-9, B-10, B-11, and B-23) to a typical depth of 12 feet bgs within the construction limits.
- 2. Visual classification of soil samples obtained continuously from each boring and field screening of samples for volatile organic vapors using a PID and the headspace method.
- 3. Collection of one soil sample from each boring for laboratory analysis.
- 4. Completion of borehole closure in accordance with the requirements of Wisconsin Administrative Code, Chapter NR 141.
- 5. Preparation of this report summarizing the results of the Phase 2.5 Environmental Sampling Investigation.

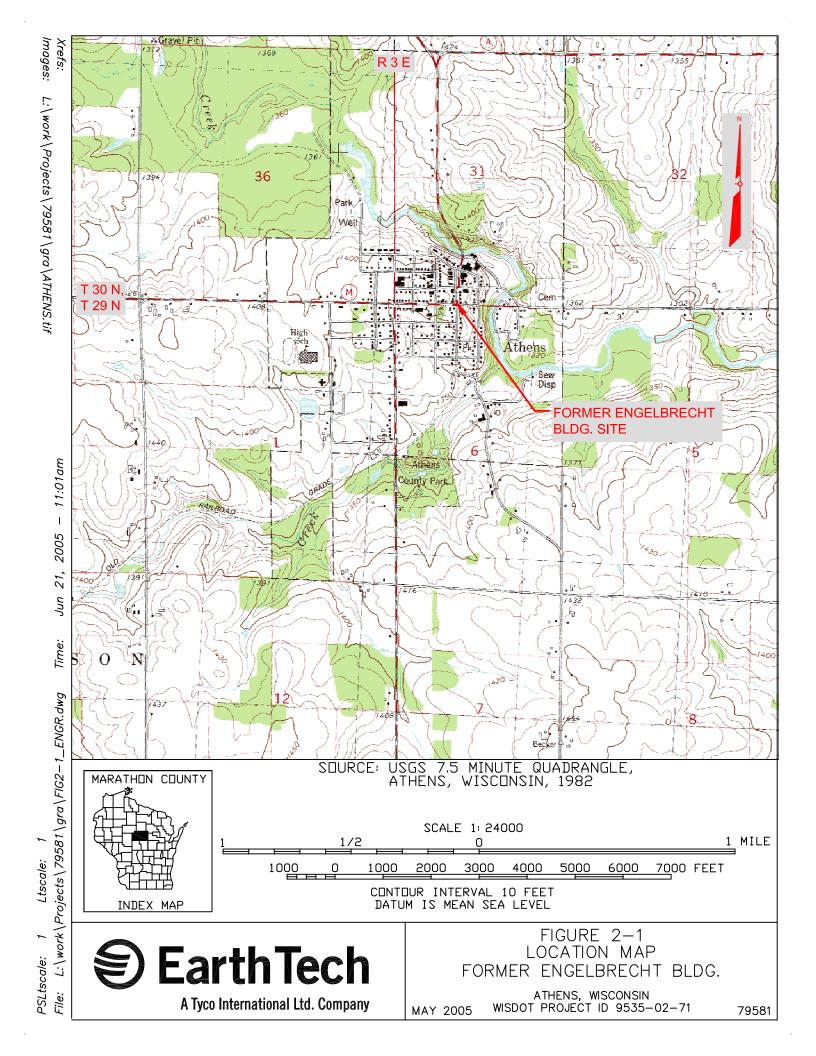
#### 2.3 SITE DESCRIPTION

The site is located on the northwest corner of Alfred and Mueller Streets in Athens, Wisconsin (see Figure 2-1). STH 97 is analogous to both Alfred and Mueller Streets along this block. General site information includes:

Location: SE¼, SW¼, Section 31, Township 30 North, Range 3 East

Address: 233 Alfred Street

Athens, WI 54451



County: Marathon

## 2.4 DESCRIPTION OF FIELD INVESTIGATION

On August 24 and 25, 2004, five soil probe borings (B-8, B-9, B-10, B-11, and B-23 on Figure 2-2) were advanced to a depth of 12 feet using a truck-mounted, direct-push rig operated by SES, Inc., of Madison, Wisconsin. Boring nomenclature relates to the overall boring identification system for the STH 97 project. Soil boring logs are presented in Appendix 3.1. The depth of each boring was based on an estimated utility trench depth of 8 to 10 feet. Photographs of the site indicating the boring locations are included in Appendix 3.2.

Subsurface samples were collected continuously using a standard direct-push sampling device and were field screened using a PID. The PID measurements of relative volatile organic vapors within the soil gas are recorded on the soil boring logs. Soil gas monitoring procedures are described in Appendix 3.3.

Soil samples were collected from each boring for laboratory analysis of VOCs. Soil sampling procedures are discussed in Appendix 3.4.

Groundwater did not accumulate in the open boreholes, and no water samples were collected from this site.

Upon completion of sampling, the borings were abandoned with chipped bentonite poured into each borehole in accordance with the requirements of Wisconsin Administrative Code, Chapter NR 141. The Borehole Abandonment Forms are presented in Appendix 3.5.

A negligible volume of soil cuttings were thin-spread on the ground surface next to each boring.

## 2.5 SUBSURFACE CONDITIONS

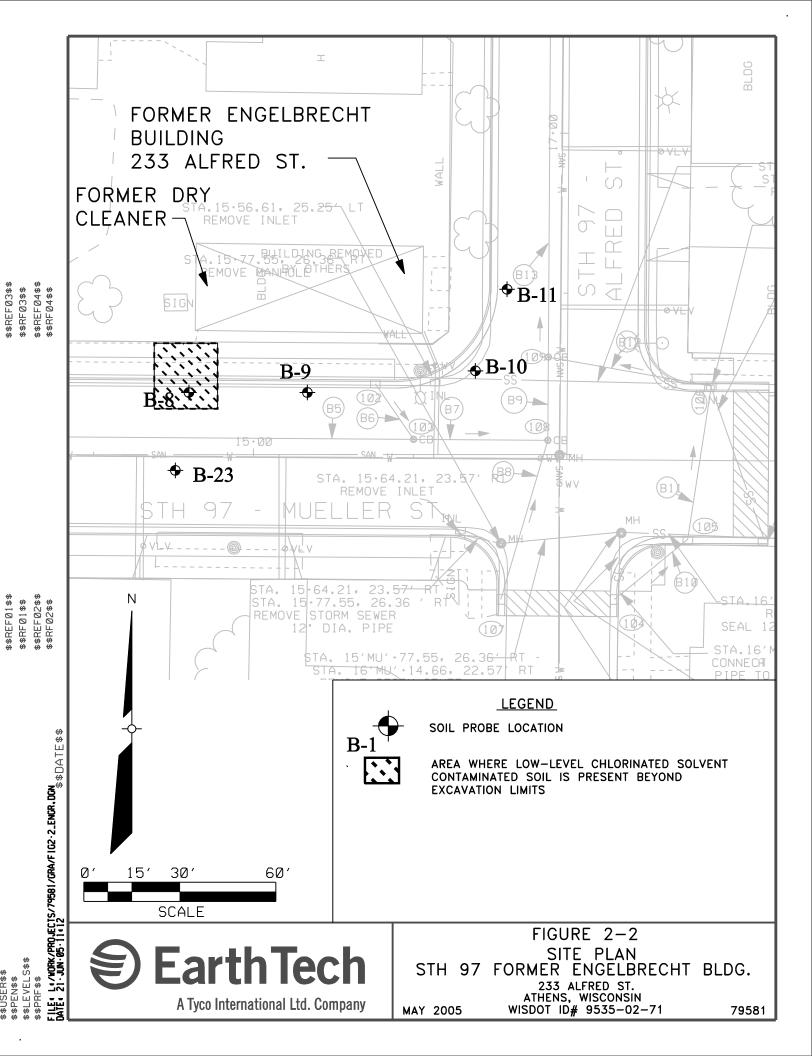
The site is regionally located in the eastern portion of the Central Wisconsin River Basin. The area was glaciated, but the glacial succession is generally less than 20 feet thick (NRCS, 1999). The glacial succession is underlain by Precambrian crystalline bedrock.

The soil association mapped at the site is Withee Silt Loam and is characterized by its moderate to moderately slow permeability and reddish brown colors and secondary mottling. Based on the topography, the shallow groundwater movement at the water table is likely east/northeast toward Black Creek, which is located within ¼ mile of the site.

Subsurface materials sampled in the borings were classified as lean clay (CL) with occasional gravel clasts which are indicative of glacial till. Colors were mainly oxidized consisting of reddish brown (Munsell 5YR 4/6) with occasional brown (7.5YR 4/4).

Groundwater did not accumulate in the open boreholes, and no groundwater samples were collected.

Slight odors noted as "sweet" on the boring log were observed at 9 feet in B-8 and below 5 feet in B-9. PID field screening results did not indicate the presence of volatile organic vapors.



\*\*USER\*

## 2.6 ANALYTICAL PARAMETERS AND RESULTS

Analytical parameters were selected in general accordance with WisDOT and DNR guidance for investigations of dry cleaners and included VOCs for soil samples. Standard analytical procedures are discussed in Appendix 3.6.

#### 2.6.1 Soil

One soil sample collected from each of the five borings was submitted to the laboratory for analysis. Soil sample analytical results are summarized in Table 2-1.

The depth at which the "sweet" odor was observed in B-8 collected from 10 to 12 feet deep showed a detection of tetrachloroethylene. As shown in Table 2-1, RCL standards are not established for in soil. No other VOC constituents were detected in B-8.

There were no VOC detections in the other four borings (B-9, B-10, B-11, and B-23).

The sample chain of custody form and laboratory report are included in Appendices 3.7 and 3.8, respectively.

## 2.7 CONCLUSIONS AND OPINIONS

The following conclusions and opinions were developed from the field and analytical laboratory information collected by Earth Tech during the Phase 2.5 Environmental Sampling Investigation next to the Former Engelbrecht Building:

- 1. Analytical constituents for assessing contamination from dry cleaning were not detected in the soil samples above regulatory limits collected at the site.
- 2. Site de-watering is not anticipated during construction at this site.
- 3. A "Notice to Contractor" should be placed in the contract special provisions notifying the construction contractor of the potential for encountering low levels of impacted soil within the construction limits next to this site.

## 2.8 STATEMENT OF LIMITATIONS

Earth Tech's Scope of Services was limited to conducting a Phase 2.5 Environmental Sampling Investigation within the planned construction limits next to the Former Engelbrecht Building.

Earth Tech's opinion regarding existing conditions at the site does not constitute a guarantee or warranty as to the potential environmental liability associated with the site. Furthermore, the findings and conclusions given are not scientific certainties, but rather probabilities based on data obtained or activities performed during this assessment and professional judgment concerning the significance of this data. All information was collected in accordance with generally accepted professional standards and practices, accepted in good faith, and is assumed to be factual and accurate.

#### TABLE 2-1

## SOIL SAMPLE ANALYTICAL RESULTS PHASE 2.5 ENVIRONMENTAL SAMPLING INVESTIGATION STH 97 - FORMER ENGELBRECHT BUILDING

## ATHENS, WISCONSIN

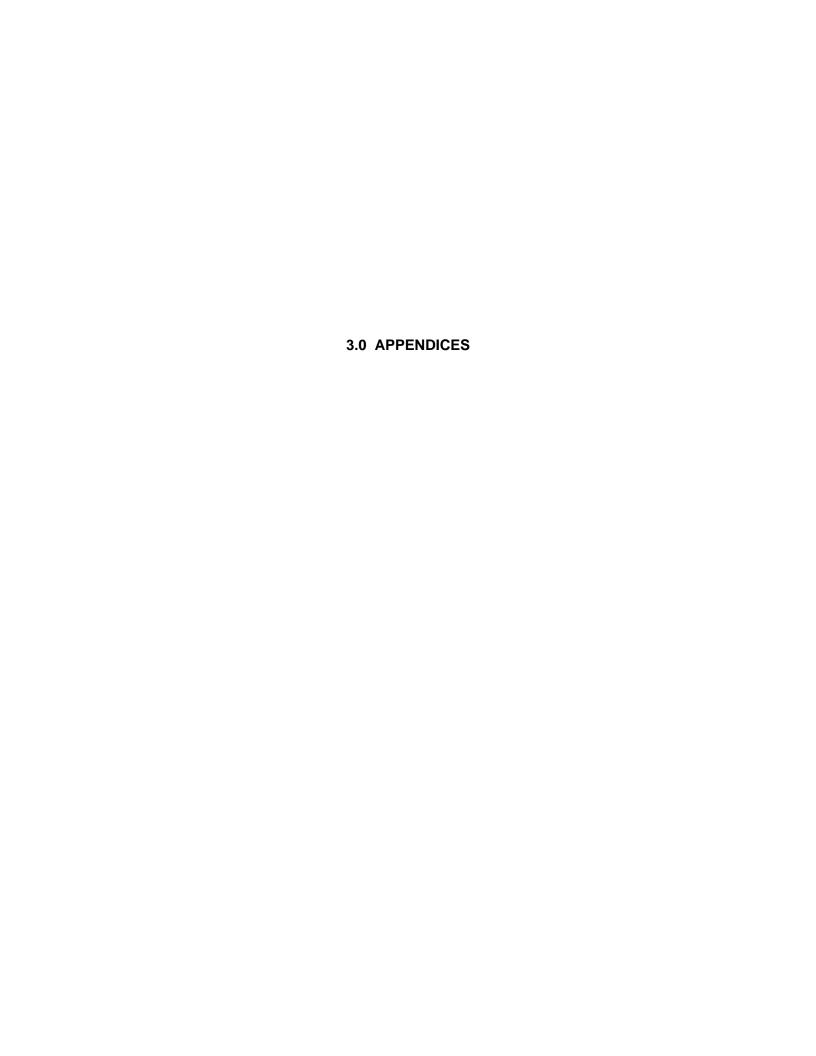
Soil Boring No.:   B-8   B-9   B-10   B-11A	B-23 10-12 08/24/04 13.8 
Date Collected: PID (i.u.):   08/25/04   0	<pre></pre>
NR 720 RCL   Interim Guidance RCL   COMM 46/ NR 746 SSL   Results	<0.025 <0.025 <0.025 <0.025 <0.025 <0.025
Analyte	<0.025 <0.025 <0.025 <0.025 <0.025
NR 720 RCL   Guidance RCL   R746 SSL   Results	<0.025 <0.025 <0.025 <0.025
NR 720 RCL   Guidance   RCL   NR 746 SSL   Results	<0.025 <0.025 <0.025 <0.025
RCL   NK 746 SSL	<0.025 <0.025 <0.025 <0.025
Benzene         0.0055         NE         8.5         <0.025	<0.025 <0.025 <0.025 <0.025
Benzene         0.0055         NE         8.5         <0.025	<0.025 <0.025 <0.025 <0.025
Bromobenzene         NE         NE         NE         <0.025	<0.025 <0.025 <0.025 <0.025
Bromodichloromethane         NE         NE         NE         <0.025	<0.025 <0.025 <0.025
n-Butylbenzene         NE         NE         NE         < 0.025	<0.025 <0.025
sec-Butylbenzene         NE         NE         NE         < 0.025	<0.025
Carbon Tetrachloride         NE         NE         NE         < 0.025	<0.025
Carbon retractionide         NE         NE <th>&lt;0.025</th>	<0.025
Chlorodibromomethane         NE         NE         NE         < 0.025	<0.025
Chloroethane         NE         NE         NE         < 0.025	<0.025
Chloroform NE NE NE <0.025 <0.025 <0.025 <0.025	<0.025
Chloromethane NE NE NE <0.025 <0.025 <0.025 <0.025	<0.025
2-Chlorotoluene NE NE NE <0.025 <0.025 <0.025 <0.025	<0.025
4-Chlorotoluene NE NE NE <0.025 <0.025 <0.025 <0.025	<0.025
1,2-Dibromo-3-chloropropar NE NE NE <0.025 <0.025 <0.025 <0.025	<0.025
<b>1,2-Dibromoethane</b> NE  NE  NE  <0.025  <0.025  <0.025  <0.025	<0.025
1,2-Dichlrobenzene         NE         NE         NE         < 0.025         < 0.025         < 0.025         < 0.025	<0.025
1,3-Dichlorobenzene         NE         NE         NE         < 0.025	<0.025
1,4-Dichlrobenzene NE NE NE <0.025 <0.025 <0.025 <0.025	<0.025
Dichlorodifluoromethane         NE         NE         < 0.025	<0.025
1,1-Dichloroethane	<0.025
<b>1,2-Dichloroethane 0.0049 NE 0.6</b> <0.025 <0.025 <0.025 <0.025	<0.025
1,1-Dichloroethylene         NE         NE         < 0.025	<0.025
cis-1,2-Dichloroethylene         NE         NE         < 0.025	<0.025
trans-1,2-Dichloroethylene         NE         NE         NE         < 0.025	<0.025
1,2-Dichloropropane         NE         NE         < 0.025	<0.025
1,3-Dichloropropane	<0.025
<b>2,2-Dichloropropane NE NE NE CO.025 CO.025 CO.025 NE NE NE NE NE NE NE NE</b>	<0.025
Ethylbenzene         2.9         NE         4.6         <0.025	<0.025
Hexachlorobutadiene         NE         NE         NE         < 0.025	<0.025
Isopropylbenzene	<0.025
Isopropyl Ether         NE         NE         NE         < 0.025	<0.025
<b>p-IsopropyItoluene NE NE NE &lt;0.025 &lt;0.025 &lt;0.025 &lt;0.025</b>	<0.025
Methyl t-Butyl Ether         NE         NE         NE         < 0.025         < 0.025         < 0.025         < 0.025	<0.025
Methylene Chloride         NE         NE         NE         < 0.025	<0.025
Naphthalene         NE         0.4         2.7         <0.025	<0.025
n-Propylbenzene         NE         NE         NE         < 0.025	<0.025
Tetrachloroethylene         NE         NE         0.116         <0.025	<0.025
1,1,2,2-Tetrachloroethane         NE         NE         NE         < 0.025	<0.025
Toluene         1.5         NE         38         <0.025	<0.025
<b>1,2,3-Trichlorobenzene NE NE NE CO.025 NE NE NE NE NE NE NE NE</b>	<0.025
1,2,4-Trichlorobenzene         NE         NE         NE         < 0.025	<0.025
1,1,1-Trichloroethane         NE         NE         NE         < 0.025	<0.025
<b>1,1,2-Trichloroethane NE NE NE</b> <0.025 <0.025 <0.025 <0.025	<0.025
Trichloroethylene         NE         NE         NE         < 0.025	<0.025
Trichlorofluoromethane         NE         NE         NE         < 0.025	<0.025
1,2,4-Trimethylbenzene NE NE 83 <0.025 <0.025 <0.025 <0.025	<0.025
<b>1,3,5-Trimethylbenzene</b> NE NE 11 <0.025 <0.025 <0.025 <0.025	<0.025
Vinyl Chloride         NE         NE         NE         < 0.025	<0.025
Xylenes (Total) 4.1 NE 42 <0.050 <0.050 <0.050 <0.050	<0.050

## Notes:

- 1. NE means "Not Established".
- 2. RCL means applicable "Residual Contaminant Level" based on protection of groundwater as listed in Table 1 of NR 720 and based on human health risk from direct contact related to land use as listed in Table 2 of NR 720.
- 3. Interim Guidance RCL refers to "Suggested generic residual contaminant levels for PAH compounds in soil" for Direct Contact Pathway for Non-industrial sites as listed in Table 1 of Soil Cleanup Levels for Polycyclic Aromatic Hydrocarbons (PAHs) Interim Guidance, Wisconsin DNR publication RR-519-97.
- 4. Comm 46/NR 746 SSL refers to "Soil Screening Level" as listed in Table 1 of COMM 46/NR 746

Earth Tech is not able to determine whether the site or adjoining land areas contain hazardous waste, oil, or other latent conditions beyond those detected or observed by Earth Tech at the time the investigation was conducted. The possibility always exists for contaminants to migrate through the surface water, air, or groundwater. Detailed analysis and discussion of the environmental risk associated with contaminant transport in those media were beyond the scope of this assessment.

The findings, conclusions, and opinion contained in this report are intended for exclusive use by WisDOT and are applicable to only the Phase 2.5 Environmental Sampling Investigation at this site. Earth Tech has no obligations to other persons or organizations who may use or rely upon this information.



# APPENDIX 3.1 SOIL BORING LOGS

State of Wisconsin	
Department of Natural	Resources

## SOIL BORING LOG INFORMATION Form 4400-122 Rev. 7-98

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State of Wisconsin	
Department of Natural	Resources

## SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98 Watershed/Wastewater [ Waste Management [ Remediation/Revelopment Other Facility/Project Name FORMER ENGELBREGHT License/Permit/Monitoring Number Boring Number Boring Drilled By: Name of crew chief (first, last) and Firm Date Drilling Started Date Drilling Completed Drilling Method First Name: RICH LASI Name: OLSEL) Fum: SES, WI Unique Well No. DIRECT PUSH DNR Well ID No. Well Name Final Static Water Level Surface Elevation Borehole Diameter Feet MSL Local Grid Origin □ (estimated: □ ) or Boring Location □ Feet MSL 🔼 inches Local Grid Location Lat 55 1/4 of Stu 1/4 of Section 31 , T 30 N, R 4 07W  $\square$  N  $\Box E$ Long Feet 🗆 S Feet W County County Code Civil Town/Chypor Village Sample Depth in Feet (Below ground surface) Soil Properties વ્ઇ <u>E</u> Blow Counts Soil/Rock Description Length Att. Recovered And Geologic Origin For Graphic Log Well Diagram Each Major Unit Moisture Content Plasticity Index PID/HD P 200 CONCEPTE COVERS 5" CONCACTE 0,5 TO 1.8 SAND+ GRAVEL FILL MOSTINENT 9:30 1.8 TO Z.O FIRM, RECORD BROWN (540 %) GRAVELLY CERN CLAY, 136 MOIST NONE 2.070 3,8 SAA NONE TO SEE OF 3.8 TO 4.0 BRICK PRAGMENTS CL 4.0 TO 6.0 CL AS ABOVE 13,3 8:40 MUSTISWEET 6.0 TO 8.0 SAA : LESS GRAVEL -20 . - FATTER 141 Maist Sweet Q. 0 70 10,0 SAA FAT CLAY MOKST HON MONETON 8:50 170CS .28,B 10.0 TO. 12.0 SAA MOST HOUG CL 8:55 EOR @ I hereby certify that the information on this form is true and correct to the best of my knowledge. \* NO WATER Signature Firm EARTH TECH, INC RECOVERY

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin Department of Natural Resources

## SOIL BORING LOG INFORMATION

Form 4400-122 Rcv. 7-98

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State of Wisconsin Department of Natural Resources

## SOIL BORING LOG INFORMATION

Form 4400-122 Rcv. 7-98

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State of Wisconsin	
Department of Natural	Resources

#### SOIL BORING LOG INFORMATION Form 4400-122 Rcv. 7-98

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## SOIL BORING LOG INFORMATION

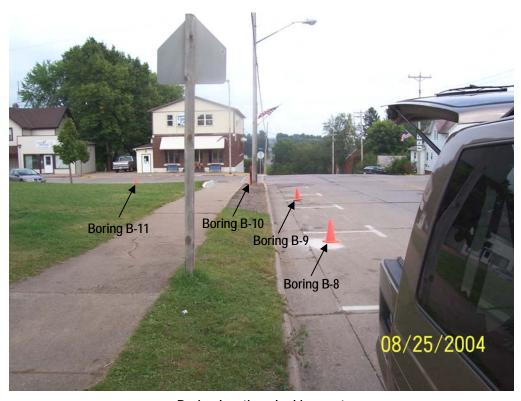
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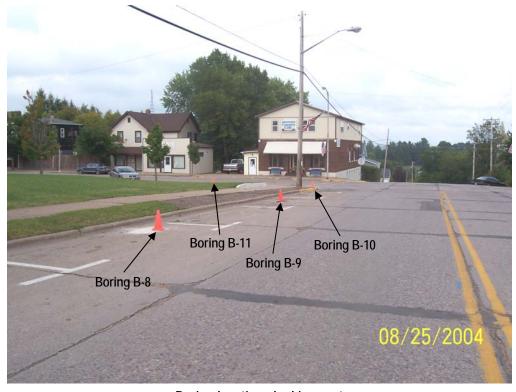
# APPENDIX 3.2 PHOTOGRAPH LOG

# Former Engelbrecht Building Phase 2.5 Environmental Sampling Investigation 233 Alfred Street Athens, Wisconsin

Work Performed and Photographs Taken on August 24 and 25, 2004



Boring locations looking east.



Boring locations looking east.

# Former Engelbrecht Building Phase 2.5 Environmental Sampling Investigation 233 Alfred Street Athens, Wisconsin Work Performed and Photographs Taken on August 24 and 25, 2004



Boring locations looking north.

# APPENDIX 3.3 SOIL GAS MONITORING

## 3.3 SOIL GAS MONITORING

PID Model: HNu DL-102 Probe: 10.2 eV Lamp

Calibration Gas: 100 ppm Isobutylene/Air

Reading: 100 ppm

Soil samples obtained from the soil borings were analyzed for volatile organic vapors using a PID. The PID was calibrated per factory specifications with 100 ppm isobutylene gas before and after each sampling was conducted. Soil gas readings for specified depth intervals were obtained using the headspace method. Soil samples were placed in plastic zip-lock bags, the bags were agitated, and the air in each bag was allowed to equilibrate with the soil sample for up to 30 minutes. The PID probe was then inserted into the bag headspace, and the instrument reading was recorded. Soil sample PID readings were recorded on the Soil Boring Logs.

Soil gas readings were obtained using the headspace method. Soil samples were placed in plastic zip-lock bags, and the air in each bag was allowed to equilibrate with the soil sample for up to 30 minutes. If the outside air temperature was below 70 degrees Fahrenheit, the soil samples were heated to a temperature of approximately 75 degrees Fahrenheit. The PID probe was then inserted into the bag headspace, and the instrument reading was recorded.

# APPENDIX 3.4 STANDARD SAMPLING PROCEDURES

## 3.4 STANDARD SAMPLING PROCEDURES

## 3.4.1 Soil

Soil samples were collected continuously from the soil probe boring using 2-inch diameter split-spoon samplers. Samples collected for laboratory analysis were removed from the sampler and placed into laboratory supplied glass jars using new protective gloves. Protective gloves were disposed after collection of each sample. All soil samples were preserved according to DNR and EPA protocol. The samplers were washed in a solution of Alconox soap and water, and double rinsed with tap water between samples.

# APPENDIX 3.5 BOREHOLE ABANDONMENT FORMS

(I) GENERAL INFORMATION		(2) FACI	ITY NAME							
Well/Drillhole/Borehole Location	County	1 7	<b>.</b>	r (If Known)						
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City Mag		Date of	Abandonmer	nt ,						
WELL/DRILLHOLE/BOREHOLE	INFORMATION	<u> </u>	<u> 7/2</u>	5704						
3) Original Well/Drillhole/Borehole Co		(4) Depth 1	o Water (Fee	i) NA						
(Date) \$1>5	164	1	k Piping Rem		Yes No No Applicable					
	<del></del>	1	Removed?		Yes No Not Applicable					
<del></del>	Construction Report Available?		Removed?	1.1	Yes No Not Applicable					
☐ Water Well ☐ Drillhole	☑ Yes □ No	If No. E	Left in Place: xplain	ENDORA	Yes No RY BORFHOLE					
Borehole				conjución	BOISPACE					
		1		Below Surface?	Yes No					
Construction Type:	Sandroint) Dug	1	Did Sealing Material Rise to Surface? Yes No							
Other (Specify) DIRECT	omrahonn) em -	Did Material Settle After 24 Hours?  If Yes, Was Hole Retopped?  Yes No								
Ond (Specify)	V113H			lacing Sealing M						
Formation Type:		l''	ivetor Pipe-G		Taternat Conductor Pipe-Pumped					
Unconsolidated Formation	☐ Bedrock	Dump Bailer Other (Explain) GRAVITY DUMO								
Total Well Depth (ft.) 12.0 C	asing Diameter (ins.)	(6) Sealing Materials For monitoring wells and								
(From groundsurface)		Neat Cement Grout monitoring well boreholes only								
Casing Depth (ft.)		Sand-Cement (Concrete) Grout Concrete Bentonite Pellets								
			Contrete Bentonite Pellets  Clay-Sand Slurry Granular Bentonite							
Was Well Annular Space Grouted?	Yes No Unknown		onite-Sand SI	шту	Bentonite - Cement Grout					
If Yes, To What Depth?	Feet	☐ Chip	ped Bentonite	· ·						
Sealing Materia	1 I lead	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant	Mix Ratio or Mud Weight					
ocaling Maccia		rioni (rt.)	10 (FL)	or Volume	With Radio of Mild Weight					
A-2-1-	Dame	Surface	0.3							
PURE GOLD M	P74 1 G4									
PURE GOLD M	EDIVM CHIBS	9,3	12.0	20/65						
Comments:	<b></b>									
Name of Person or Firm Doing Sealin		(10)			DUNTY USE ONLY					
Signature of Person Doing Work	RTH VECH, NC	Date	Received/Insp	ected	District/County					
Plate Comment	8/25/04	Revie	wer/Inspector							
Street or Route	Telephone Number		•							
200 HANANA AVE	715) 341-8110	Follo	v-up Necessa	гу						
City, State, Zip Code	1/									
STEVENS POINT W	11 54481									

## WELL/UKILLHOLE/BOREHOLE ABANDONMENT Form 3300-5B Rev. 8-89

(1) GENERAL INFORMATION		(2) FACI	LITY NAME				
Well/Drillhole/Borehole	County	Origin	al Well Owne	r (If Known)			
Location	MARATHON	W	SDOT	RFF			
	<b>₽</b> 7 ₽		t Well Owner				
5' 1/4 of Sk/ 1/4 of Sec. 3	7/:T.30 NR 4 日 W	1	SAME	:			
(If applicable)	<u></u>	Street	or Route	<del> </del>			
Gov't Lot	Grid Number			-	. 1		
Grid Location	Ond Number	7	State, Zip Co	HEBOYGAN	1 AVF		
	- Feel 22 Feel	City, 3	state, Zip Co	<b>de</b> , /			
ft. N. S., Civil Town Name	ft.	100	ADISON.	W/53	107		
Civil Iown Name		Facility	WEILING. AIR	d/or Name (If Ap	oplicable) WI Unique Well No.		
Street Address of Well			B9		<u> </u>		
		Reason	For Abandon	nment			
233 ALFR	Eb	TR	MONRAR	V BORE	WE		
Chy Village		Date of	Abandonme	ni .			
ATHENS.		}	8/25	Toses			
WELL/DRILLHOLE/BOREHOLE	INFORMATION						
3) Original Well/Drillhole/Borehole C		(4) Depth	to Water (Fee	0 110			
y'					V. Fly Ely a		
(Date) \$/25	104		& Piping Ren		Yes No No Not Applicable		
	r • -		Removed?		Yes No Not Applicable		
_	Construction Report Available?	1	Removed?		Yes No Not Applicable		
☐ Water Well	⊠ Yes □ No	_	Left in Place	?	Yes 🔯 No		
☐ Drillhole		If No, E	Explain	EMOSPA	RY BORFHOLE		
Borehole	i e	Į.		7	7		
		Was Ca	sing Cut Off	Below Surface?	☐ Yes ☐ No		
Construction Type:				Rise to Surface?			
F-1 10 101 1	(Sandpoint) Dug		_	fter 24 Hours?	☐ Yes ☐ No		
	- D1254	1	, Was Hole R				
	V17314	Ĺ					
Formation Type:		(5) Required	d Method of F	Placing Sealing N	faterial		
Unconsolidated Formation	Пъ.	Cone	fuctor Pipe-G	ravity $\square$	Conductor Pipe-Pumped		
Unconsolidated Formation	Bedrock		p Bailer		Other (Explain) GRAVITY - DVM		
Total Well Depth (ft.) / > O	Casing Diameter (ins.)	(6) Sealing	<del></del>		For monitoring wells and		
(From groundsurface)	(12.5)	Neat Cement Grout monitoring well boreholes only					
(				ncrete) Grout	monutaring went bottenoies only		
Casing Depth (ft.)				ncree) Grout	t filling a second second		
Cashig Deput (IL)	,	Conk		i	Bentonite Pellets		
317 - 337 19 4			-Sand Slurry		Granular Bentonite		
Was Well Annular Space Grouted?	Yes No Unknown	<u> </u>					
If Yes, To What Depth?	Feet	☐ Chip	ped Bentonite	;	l		
		<del>*************************************</del>	T	No. Yards,			
Sealing Materia	al Used	From (Ft.)	To (Ft.)	Sacks Sealant	Mix Ratio or Mud Weight		
				or Volume			
1	Da	Surface	0.3				
- THSONAT	PATCH		0.5	ļ <u>-</u>			
D .		<i>A</i> 7	12.0	1816			
PUBE GOLD	NEDIUM CHIPS	0.3	12:0	18/25			
•	, ,			•			
Comments:							
Name of Person or Firm Doing Sealing	ng Work	(10)	FOD	DNP	OUNTY USE ONLY		
· · · · · · · · · · · · · · · · · · ·	١ , ١						
	PRIH LECH, INC	Date	Received/Insp	ecceu	District/County		
Signature of Person Doing Work	Date Signed						
The Coran	8/25/04	Kevie	wer/Inspector				
Street or Route	Telephone Number						
200 MOISNA AVE	715) 341-8110	Follo	w-up Necessa	ry			
City, State, Zip Code							
STEVENS POINT L	1/54451						
//_//\\\\\\\\\\\\\\\\\\\\\\\\\\\\	// // <i>// 7</i> //						

WELL/DKILLHULE/BUKEHULE ABANDUNMENT Form 3300-5B Rev. 8-89

THE CENTED AT THEODY COME								
(I) GENERAL INFORMATION		(2) FACILITY NAME						
Well/Drillhole/Borehole Location	County MARATHON	Original Well Owner (If Known)  WISDOT BEFS						
SE 1/4 of Sk 1/4 of Sec.	MOI E	1	t Well Owner					
(If applicable)	27; 1.33 K.R [] W		SAME or Route	<del></del>	· · · ·			
Gov't Lot	Grid Number			HEBOVGA)	111	<del>-</del>		
Grid Location		City,	State, Zip Co.	de /	,,			
ft. N. S.,	ft E W.	1 100	ADISON,	W/53 d/or Name (II A)	707	191801		
Resonant	i Marca	Facility	WELL NO. ALK	Cor Name (II A)	ppircapie)	WI Unique Well No.		
Street Address of Well	KL HAUSEY	Reasor	For Abandon	nment	· · · · · · · · · · · · · · · · · · ·	<u> </u>		
237 ALF	FREN	TE	MOORAR	V ROPE	HOLE			
City Village			Abandonme	nt				
ATHEMS.		<u> </u>	<u> </u>	25/04				
WELL/DRILLHOLE/BOREHOLE 3) Original Well/Drillhole/Borehole C		I/A Doneh	to Water (Fee					
(Date) $C/25$	onstruction Completed On	1,,		-	Yes 🗇 N	h Kal Mar Amaliashia		
(23)	04		& Piping Reп ) Removed?	_	<del>–</del>	Not Applicable  Not Applicable		
Monitoring Well	Construction Report Available?		Removed?		لسا	Not Applicable  Not Applicable		
☐ Water Well	⊠TYes □ No	Casing	Left in Place		Yes 🔯 N			
Drillhole		If No. E	Explain	EMPRA	RY B	ORFHOLE		
Borehole		Was Ca	ois a Con Off	Palam Surface?	<del></del>	- F3 V		
Construction Type:				Below Surface? Rise to Surface?		es []No		
	Sandpoint) Dug	Did Material Settle After 24 Hours? Yes No						
Other (Specify) DIRECT	• •	If Yes, Was Hole Retopped? Yes No						
Formation Time		(5) Require	d Method of F	Placing Sealing N	<b>Aaterial</b>			
Formation Type:  Unconsolidated Formation	☐ Bedrock	Cond	ductor Pipe-G	ravity []	Conductor P	ipe-Pumped		
	<del></del>	Dump Bailer Other (Explain) GRAVITY DUM						
Total Well Depth (ft.) 12,0 C	asing Diameter (ins.)	(6) Sealing Materials For monitoring wells and						
(From groundsurface)		☐ Neat Cement Grout monitoring well boreholes only ☐ Sand-Cement (Concrete) Grout						
Casing Depth (ft.)			-	ncrete) Grout	Rent	onita Dallate		
			☐ Concrete ☐ Bentonite Pellets ☐ Clay-Sand Slurry ☐ Granular Bentonite					
Was Well Annular Space Grouted?	Yes No Unknown	Bentonite-Sand Slurry Bentonite - Cement Grout						
If Yes, To What Depth?	Feet	☐ Chip	ped Bentonite	•	I			
Sealing Materia	l Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant	Mix Ra	tio or Mud Weight		
				or Volume				
PURE GOLD N	PATCH	Surface	0,4	<del></del>		·		
PHRE GOLD N	Knuga Chur	0.4	12.0	17/65				
	2404 -1475			7.7		<del></del>		
					<u> </u>			
Comments:								
Name of Person or Firm Doing Sealin	g Work	(10)	FOR	DNR OR CO	HNTY	SE ONLY		
	·		Received/Insp			t/County		
Signature of Person Doing Work	RTH TEGH, INC.							
Mil Esan		Revie	wer/Inspector					
Street or Route	Telephone Number							
City, State, Zip Code	915) 341-8110	Follo	w-up Necessa	ry				
STEVENS POINT L	1/54481							

(1) GENERAL INFORMATION		_(2) FACI	LITY NAME		
Well/Drillhole/Borehole	County	Origin	al Well Owne	r (if Known)	
Location	MARATHON			BEES	
	Los E	Presen	t Well Owner	•	
\$\int_1/4 \text{ of } \frac{\sqrt{1}}{2} \text{ 1/4 of Sec. } =	31; T. 30 N; R. 4 🗍 🖠		SAME		
(If applicable)		1	or Route		
Gov't Lot	Grid Number	48	30Z S	HEBOYGAR	VANT
Grid Location		City, 3	state, Lip Co	ae /	
ft. 🔲 N. 🔲 S.,	ft.	M	7D150N	W153	707
Civil Town Name		Facility	Well No. an	d/or Name (If A <sub>1</sub>	pplicable) WI Unique Well No.
1+ALSEY			B-11		
Street Address of Well	· · · · · · · · · · · · · · · · · · ·		For Abandon		
233 A	LFRED	TE	MADORAR	Y BORE	HOLE
City, Village	_	Date of	: Abandonmei	nt ,	
ATHEMS.			8/2	5/04	
WELL/DRILLHOLE/BOREHOLE					
3) Original Well/Drillhole/Borehole C			o Water (Fee		
(Daie)	100		k Piping Ren	noved?	Yes No No Applicable
g			Removed?		Yes No No Applicable
Monitoring Well	Construction Report Available?		Removed?		Yes No Not Applicable
Water Well	⊠TYes □ No		Left in Place	1.1	Yes [☑] No
Drillhole		If No, E	xplain	EMORA	RY BORFHOLE
Borehole	i	i	<u>.                                      </u>		<b>,</b>
				Below Surface?	
Construction Type:		Did Sea	ling Material	Rise to Surface?	Yes 🗍 No
Drilled Driven	(Sandpoint) Dug	Did Ma	terial Settle A	fter 24 Hours?	Yes No
Other (Specify) DIRECT	- PUSH	If Yes	, Was Hole R	letopped?	Yes 🗋 No
		(5) Require	Method of F	Placing Sealing N	Material
Formation Type:		· · · ·			
Unconsolidated Formation	☐ Bedrock	. ==	fuctor Pipe-G		Conductor Pipe-Pumped
T	Section Discussion (Sec.)		p Bailer	<u>\</u>	Other (Explain) GRAVITY - Dump
	Casing Diameter (ins.)	(6) Sealing			For monitoring wells and
(From groundsurface)			Cement Gro		monitoring well boreholes only
Coolea Death (6)			-	ncrete) Grout	
Casing Depth (ft.)	;	Conc			Bentonite Pellets
317 377 11 4 3 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			-Sand Slurry		Granular Bentonite
Was Well Annular Space Grouted?	Yes No Unknown		onite-Sand SI	•	Bentonite - Cement Grout
If Yes, To What Depth?	Feet	☐ Chip	ped Bentonite	<b>:</b>	ı
				No. Yards,	I
Sealing Materia	મી Used	From (Ft.)	To (Ft.)	Sacks Sealant or Volume	Mix Ratio or Mud Weight
		0.6	<u> </u>	or rotatio	
ACOHALT	DATCH	Surface	93	1	
ASPHALT PURIT GOLD MEDI			- ` -		
DUDIE GALL MEN	LAA CILLOC	0.3	50	9/6	f
TWE SOCK THESE	120 01475		- V	<del></del>	
			I		1
Comments:				<del>*</del>	
<del></del>					
Name of Person or Firm Doing Sealing	ng Work	(10)	FOP	DND OD CO	OUNTY USE ONLY
	·	200,000,000	Received/Insp		District/County
Signature of Person Doing Work	Date Signed	Date	"or sering!	ALLES	District County
	Date Signed	D.22	wer/Inspector		
Street or Route	Telephone Number	Kevie	wertmsbector		
_ , , ,	1				
200 HADISHA AVE	715) 341-8110	Follo	v∙up Necessa	гy	
City, State, Zip Code	- /				
STEVENS POINT L	1154401				

WELL/DRILLHOLE/BOKEHOLE ABANDONMENT Form 3300-5B Rev. 8-89

(1) GENERAL INFORMATION		(2) FACI	LITY NAME				
Well/Drillhole/Borehole	County			r (If Known)			
Location	MARATHURI		SDOT.				
	<b>√67</b> 1 E	1	t Well Owner				
3E 1/4 of Sw 1/4 of Sec. 3	<u>51 ; T. 30 N. R. 4 DW</u>		SAME				
(If applicable)		Street	or Route				
Gov't Lot	Grid Number	4/8	30Z S	HEBOYGAK	VANT		
Grid Location		Lity, 3	otate, Zip Coo	ue /			
fi. N. S.,	ft. 🔲 E. 🔲 W.	M	4.D1502V	W) 53 d/or Name (If A)	707		
Civil Town Name		Facility	Well No. and	d/or Name (II A)	pplicable) WI Unique Well No.		
HALSEY		1	B-11A				
Street Address of Well		Reason	For Abandor	nment			
-333 ALFRI	SK.	12	MARAR	V BORE	HOLF		
Cky Killage		Date of	Abandonmer	nt			
ATHENS.			8/25	104			
WELL/DRILLHOLE/BOREHOLE	INFORMATION						
3) Original Well/Drillhole/Borehole Co	onstruction Completed On	(4) Depth 1	o Water (Fee	I) NA			
(Date) <u> </u>	'au	Pump d	k Piping Rem	noved?	Yes No No Applicable		
			Removed?	_	Yes No Not Applicable		
☐ Monitoring Well	Construction Report Available?	Screen 1	Removed?		Yes No Not Applicable		
☐ Water Well	☑ Yes □ No	Casing	Left in Place		Yes No		
Drillhole		If No, E	xplain 7	EMORA	RY BORFHOLE		
Borehole		İ		7	7 77766779		
•		Was Ca	sing Cut Off	Below Surface?	∏ Yes ∏ No		
Construction Type:		2		Rise to Surface?			
☐ Drilled ☐ Driven (	Sandpoint) Dug	Did Ma	terial Settle A	fter 24 Hours?	Yes No		
Other (Specify) DIRECT	·	If Yes	, Was Hole R	etopped?	☐ Yes ☐ No		
		(5) Required	Method of F	Placing Sealing N	Material		
Formation Type:	!						
Unconsolidated Formation	☐ Bedrock		fuctor Pipe-G		Conductor Pipe-Pumped		
Total Well Depth (ft.) 120 C	asina Diamatas (ina )		p Bailer	N N	Other (Explain) GRAVITY-Dung		
(From groundsurface)	asing Diameter (ins.)	(6) Sealing Materials For monitoring wells and  Neat Cement Grout monitoring well boreholes only					
(110m groundsurace)		l ===		ut ncrete) Grout	monitoring well boreholes only		
Casing Depth (ft.)		Conc	-	ncrete) Grout	I C Barragian Ballan		
			Sand Slurry		Bentonite Pellets		
Was Well Annular Space Grouted?	☐ Yes ☐ No ☐ Unknown		-		Granular Bentonite		
If Yes, To What Depth?	Yes No Unknown	Bentonite-Sand Slurry Bentonite - Cement Gro Chipped Bentonite					
If ites, to what Depth!	ræt	П сир	ped permonnie		•		
Sealing Materia	l licad	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant	Mix Ratio or Mud Weight		
	10344	Fiolit (FL)	10 (FL)	or Volume	MIX Radio of Midd Weight		
_		Surface	- /	1			
ASOUALT	PATCH	<b></b>	0,5				
	· ·	ا سے د	<i>i</i> _	/1	ł		
PURE GOED MED	SILM CHIA	0.5	12.0	1201/bs			
	,						
					ļ.		
					<u> </u>		
Comments:							
Name of Person or Firm Doing Sealing	ig Work	(10)	FOR	DNR OR CO	OUNTY USE ONLY		
PHIL EAGAN- EA	RTH TECH INC	Date	Received/Insp	ected	District/County		
Signature of Person Doing Work	Date Signed,						
- Mil Coolie	8/25/04	Revie	wer/Inspector				
Street of Route	Telephoné Number						
200 MAISNA AVE	715) 341-8110	Follo	v-up Necessa	гy			
City, State, Zip Code							
STEVENS POINT W	1/54481						

Form 3300-5B

(I) GENERAL INFORMATION			(2) FACILITY NAME							
Well/Drillhole/Borehole County			Original Well Owner (If Known)							
Location	Location Maratrori			WISDOT BEES						
838 8	Z E	1	t Well Owner							
NW 1/4 of NE 1/4 of Sec. 1	; T. <u>29</u> N. R. <u>4</u> N.		SAME							
(If applicable)	O-11 Moorkee	1	or Route		. 1					
Grid Location	Grid Number	City S	State, Zip Cod	HEBOYGAL	1445					
ft. N. S.,	fi. ☐ E. ☐ W.		4D15021	W/ 53	マップ					
Civil Town Name		Facility	Well No. and	Vor Name (II Ap	plicable) [WI Unique Well No.					
			R->~	_						
Street Address of Well 205 MUE		Reason	For Abandon	<del></del>						
205 MUE	LLEP	尼	MOORAR	V BORE	HOLE					
City, Village		Date of	Abandonmen	ıi,						
ATHEMS.		<u> </u>	8/	24/04						
WELL/DRILLHOLE/BOREHOLE			·	,	· · · · · · · · · · · · · · · · · · ·					
(3) Original Well/Drillhole/Borehole C	onstruction Completed On		to Water (Feet							
$\frac{\text{(Date)}}{\text{(Date)}}$	loy		& Piping Rem	= .	Yes No No Not Applicable					
<b>—</b>			) Removed? Removed?	لبسا	Yes No No Applicable					
= -	Construction Report Available?		Left in Place?	1_1	Yes No No Not Applicable Yes No					
Water Well Drillhole	☑ Yes □ No	If No. I		EMORA						
Borehole				Crygaran	HOISTICE.					
		Was Ca	sing Cut Off	Below Surface?	☐ Yes ☐ No					
Construction Type:		Did Sea	ling Material	Rise to Surface?						
Drilled Driven	(Sandpoint) Dug			fter 24 Hours?	Yes No					
Other (Specify) DIRECT	P1,54	If Yes	s, Was Hole R	etopped?	☐ Yes ☐ No					
<b>.</b>		(5) Require	d Method of P	lacing Sealing M	laterial					
Formation Type:  Unconsolidated Formation	The second	☐ Con	ductor Pipe-G		Conductor Pipe-Pumped					
Unconsolidated Formation	☐ Bedrock	Dun	np Bailer		Other (Explain) GRAVITY-DUMO					
Total Well Depth (ft.) 17.0	asing Diameter (ins.)		Materials		For monitoring wells and					
(From groundsurface)		,	t Cement Gro		monitoring well boreholes only					
		. ==	i-Cement (Con	ncrete) Grout	I I Daniela Dallas					
Casing Depth (ft.)		. —	crete -Sand Slurry		Bentonite Pellets Granular Bentonite					
Was Well Annular Space Grouted?	Yes No Unknown		tonite-Sand S1	ווווי	Bentonite - Cement Grout					
If Yes, To What Depth?	Feet	. =	ped Bentonite	- :						
				No. Yards,	1					
7) Sealing Materi	al Used	From (Ft.)	To (Ft.)	Sacks Sealant or Volume	Mix Ratio or Mud Weight					
				of volume						
Acousi -	Datel	Surface	0,5							
PURE GOLD A	F741 S4									
PURE GOLD A	MENIUM CHIOC	0.5	12.0	2016						
	7									
			<u> </u>	<u> </u>						
8) Comments:			<del></del>	<del></del>						
Name of Person or Firm Doing Seali	ng Work	(10)	EUD	DNR OR CO	DUNTY USE ONLY					
•	· .		Received/Insp		District/County					
Signature of Person Doing Work	Date Signed									
	8/74/04	Revi	ewer/Inspector							
Street or Route	Telephone Number									
200 KNIANA AVE	715) 341-8110	Folk	w.up Necessa	шy						
City, State, Zip Code										
Complete Parison 1	11/5/11/20									

# APPENDIX 3.6 STANDARD ANALYTICAL PROCEDURES

# 3.6 STANDARD ANALYTICAL PROCEDURES

Soil samples were analyzed by U.S. Filter/Enviroscan, Rothschild, Wisconsin (DNR Certification No. 737053130).

The analytical methods used included:

1. VOCs by EPA Method 8021

Sample detection limits for specific analyses are included on the laboratory data sheets.

# APPENDIX 3.7 CHAIN OF CUSTODY FORM

# REQUEST FOR SERVICES

ENVIRUSCAN S	EHVICES	3(	JI VV. IVIIL	HART RD	. ROIF	150111	בט, אוו	544/4	1-000	1-330-3CAN	
REPORT TO:		•				•			rt To info)		
Name: Kyle Wasones					Name:						
Company: EARTH THE LIKE					Compan	ıy:					
Address: 57 200 Phone: (7,5	EVENS 3 THOM	POINT	WI5	4814							
P.O.#					Phone:	(	)				
Project # <b>79</b> 5	71	Quote	# 738	34							
Location 574 97	-ATHENS	FORNET	Z ENGE	28115-47	175-60		ANA	AI YTI	CALRE	QUESTS	
•							1			necessary)	
Sample Ty (Check all tha Groundwa Wastewa Soil/Solid Drinking	ter I		eded 5-		, 9		6 /				
☐ Oil☐ Vapor☐ Other		, , ,	J(M)	2	1	0					
LAB USE ONLY	DATE	TIME	No. of Containers		PLE ID		<b>y</b> /			REMARKS	
70161424	8/25/24	0830		MeO	<i>H</i>	7					
70161425	<u> </u>	8850	2	- B-9 8	070/90	X					
70161426		0949	Z	l' _	10,0 rote	1 1					
70161427		1020	2	B-10	100 -012	16.					
70161428		1145		3-11							
		•									
						<u> </u>					
										<u>.</u>	
	in the						Ship.	Hand Cont. Olles leaki		N N/A	
CHAIN O	F CUST	ODY	RECO	RD			Seals			N N/A	
SAMPLERS: (Signa	nture)	1/2	( a con					nents:			
RELINQUISHED BY:	(Signature)	1 4	E/FIME Gy 7:10	RECEIVED	BY: (Signatur	e)					
RELINQUISHED BY:	Signature)		E/TIME	RECEIVED	BY: (Signatur	e)					
RELINQUISHED BY: (	(Signature)	DATI	L E/TIMÉ I	RECEIVED BY: (Signate	FOR LABORA	ATORY	DATE/	TIME.			

# APPENDIX 3.8 LABORATORY REPORT



August 31, 2004

Earth Tech, Inc. (Stevens Point WI) 200 Indiana Ave Stevens Point, Wi 54481

Attn: Kyle Wagoner

**REPORT NO.: 161424** 

RECEIVED

SEP 2 2004

EARTH TECH

STH 97, ATHENS FORMER ENGELBREIGT BLAG

PROJECT NO.: ENGELBRECHT

Please find enclosed the analytical report, including the Sample Summary, Sample Narrative and Chain of Custody for your sample set received August 26, 2004.

All analyses were performed in accordance with approved methods as indicated on this report.

If you have any questions about the results, please call. Thank you for using USFilter, Environscan Services for your analytical needs.

Sincerely,

USFilter, Enviroscan Services

Eric A. Lorge Project Manager

I certify that the data contained in this report has been generated and reviewed in accordance with the USFilter, Enviroscan Services Quality Assurance Program. Exceptions, if any, are discussed in the sample narrative. Samples will be retained for 30 days from the date of this report, then disposed in an appropriate manner. USFilter, Enviroscan Services reserves the right to return samples identified as hazardous. Release of this Final Report is authorized as verified by the following signature.

amesh Slows

Approved by:

Certifications:

Wisconsin 737053130 Minnesota 055-999-302 Maryland 276 Oregon (WI-100001) Illinois 200025 Washington C293



Lab Id 161424

161425

161426

161427

161428

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B11A 10-12'

**ENVIROSCAN SERVICES** 301 WEST MILITARY ROAD ROTHSCHILD, WI 54474

TELEPHONE FACSIMILE WEBSITE

SOIL

161424.2

800-338-7226 715-355-3221 www.usfilter.com

#### Sample Summary

		_
<u>Client Sample ID</u>	<u>Date/Time</u>	<u>Matrix</u>
MEOH BLANK-USF	08/25/04	SOIL
B9 8-10'	08/25/04 08:50	SOIL
B8 10-12'	08/25/04 09:40	SOIL
B10 10-12'	08/25/04 10:20	SOIL

08/25/04 11:45

	Sample Narrative/Sample Status
LOGIN:	
GENERAL:	
ANALYSES:	
QA/QC:	
REPORTING:	

### <u>Definitions</u>

LOD = Limit of Detection (Not dilution corrected) LOQ = Limit of Quantitation (Not dilution corrected) < = Less Than COMP = Complete SUBCON = Subcontracted analysis mv = millivolts pCi/l = picocurie per liter ml/l = mililiters/Liter mg = milligrams

 $\mu$ g/l = Micrograms per liter = parts per billion (ppb) μg/kg = Micrograms per kilogram = parts per billion (ppb) mg/l = Milligrams per liter = parts per million (ppm) mg/kg = Milligrams per kilogram = parts per million (ppm) NOT PRES = Not Present ppth = Parts per thousand (S) = Surrogate Compound mg/m3 = Milligrams/meter cube



Earth Tech, Inc. (Stevens Point WI)

ENVIROSCAN SERVICES 301 WEST MILITARY ROAD ROTHSCHILD, WI 54474 TELEPHONE FACSIMILE WEBSITE 800-338-7226 715-355-3221 www.usfilter.com

PROJECT NO.: ENGELBRECHT REPORT NO.: 161424.3 DATE REC'D: 08/26/04 REPORT DATE: 08/31/04 PREPARED BY: EAL

Attn: Kyle Wagoner

200 Indiana Ave Stevens Point, Wi 54481

Sample ID: MEOH BLANK-USF Matrix: SOIL Sample Date/Time: 08/25/04 Lab No. 161424

Sample ID: MEON BEAR OSI	MQC1 17	. JOIL	Jan	ipte bate/11	ilic. 00/25/0	,-	Lab No. 10	71727
					Dilution		Date	
	Result	<u>Units</u>	LOD	LOQ	Factor	Qualifiers	Analyzed	Analyst
	Kedatt	0111113	<u> </u>	LOW	140.001	<u>quat III ters</u>	Anatyzea	Anatyst
EPA 8021								
Benzene	<0.025	mg/l	0.008	0.027	1		08/26/04	LMP
Bromobenzene	<0.025	mg/l	0.007	0.023	i		08/26/04	LMP
Bromodichloromethane	<0.025	mg/l	0.006	0.02	1		08/26/04	LMP
n-Butylbenzene	<0.025	mg/l	0.012	0.04	i		08/26/04	LMP
sec-Butylbenzene	<0.025	mg/l	0.01	0.033	1		08/26/04	LMP
tert-Butylbenzene	<0.025	mg/l	0.01	0.033	1		08/26/04	LMP
Carbon Tetrachloride	<0.025	mg/l	0.008	0.027	1		08/26/04	LMP
Chlorobenzene	<0.025	mg/l	0.007	0.023	1		08/26/04	LMP
Chlorodibromomethane	<0.025	mg/l	0.02	0.067	1		08/26/04	LMP
Chloroethane	<0.025	mg/l	0.09	0.30	1		08/26/04	LMP
Chloroform	<0.025	mg∕l	0.01	0.033	1		08/26/04	LMP
Chloromethane	<0.025	mg∕l	0.01	0.033	1	LCL	08/26/04	LMP
2-Chlorotoluene	<0.025	mg/l	0.008	0.027	1		08/26/04	LMP
4-Chlorotoluene	<0.025	mg/l	0.008	0.027	1		08/26/04	LMP
1,2-Dibromo-3-chloropropane	<0.025	mg/l	0.009	0.03	1	CSH	08/26/04	LMP
1,2-Dibromoethane	<0.025	mg/l	0.012	0.04	1		08/26/04	LMP
1,2-Dichlorobenzene	<0.025	mg∕l	0.008	0.027	1		08/26/04	LMP
1,3-Dichlorobenzene	<0.025	mg/l	0.008	0.027	1		08/26/04	LMP
1,4-Dichlorobenzene	<0.025	mg/l	0.008	0.027	1		08/26/04	LMP
Dichlorodifluoromethane	<0.025	mg/l	0.014	0.047	1	CSL	08/26/04	LMP
1,1-Dichloroethane	<0.025	mg/l	0.009	0.03	1		08/26/04	LMP
1,2-Dichloroethane	<0.025	mg/l	0.005	0.017	1		08/26/04	LMP
1,1-Dichloroethylene	<0.025	mg/l	0.016	0.053	1		08/26/04	LMP
cis-1,2-Dichloroethylene	<0.025	mg∕l	0.007	0.023	1		08/26/04	LMP
trans-1,2-Dichloroethylene	<0.025	mg∕l	0.01	0.033	1		08/26/04	LMP
1,2-Dichloropropane	<0.025	mg∕l	0.007	0.023	1		08/26/04	LMP
1,3-Dichloropropane	<0.025	mg/l	0.008	0.027	1		08/26/04	LMP
2,2-Dichloropropane	<0.025	mg∕l	0.008	0.027	1	CSL	08/26/04	LMP
Ethylbenzene	<0.025	mg/l	0.007	0.023	1		08/26/04	LMP
Hexachlorobutadiene	<0.025	mg/l	0.015	0.05	1		08/26/04	LMP
Isopropylbenzene	<0.025	mg∕l	0.009	0.03	1		08/26/04	LMP
Isopropyl Ether	<0.025	mg/l	0.014	0.047	1		08/26/04	LMP
p-Isopropyltoluene	<0.025	mg∕l	0.011	0.037	1		08/26/04	LMP
Methyl t-Butyl Ether(MTBE)	<0.025	mg/l	0.018	0.06	1		08/26/04	LMP
Methylene Chloride	<0.025	mg/l	0.014	0.047	1		08/26/04	LMP
Naphthalene	<0.025	mg/l	0.01	0.033	1		08/26/04	LMP
n-Propylbenzene	<0.025	mg/l	0.009	0.03	1		08/26/04	LMP
Tetrachloroethylene	<0.025	mg/l	0.009	0.03	1		08/26/04	LMP
1,1,2,2-Tetrachloroethane	<0.025	mg/l	0.006	0.02	1	CSH LCH	08/26/04	LMP
Toluene	<0.025	mg/l	0.007	0.023	1		08/26/04	LMP
1,2,3-Trichlorobenzene	<0.025	mg/l	0.014	0.047	1		08/26/04	LMP
1,2,4-Trichlorobenzene	<0.025	mg∕l	0.014	0.047	1		08/26/04	LMP
1,1,1-Trichloroethane	<0.025	mg/l	0.008	0.027	1		08/26/04	LMP
1,1,2-Trichloroethane	<0.025	mg/l	0.006	0.02	1		08/26/04	LMP
Trichloroethylene	<0.025	mg/l	0.011	0.037	1		08/26/04	LMP
Trichlorofluoromethane	<0.025	mg∕l	0.008	0.027	1	CSH	08/26/04	LMP
1,2,4-Trimethylbenzene	<0.025	mg/L	0.012	0.04	1		08/26/04	LMP
1,3,5-Trimethylbenzene	<0.025	mg/l	0.01	0.033	1		08/26/04	LMP
Vinyl Chloride	<0.025	mg/l	0.018	0.06	1	LCL	08/26/04	LMP
m- & p-Xylene	<0.025	mg/l	0.015	0.05	1		08/26/04	LMP
o-Xylene	<0.025	mg/l	0.008	0.027	1		08/26/04	LMP
PID Surrogate Recovery (S)	96.7	%	-	-	1		08/26/04	LMP
HALL Surrogate Recovery (S)	127.	%	-	-	1		08/26/04	LMP



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Earth Tech, Inc. (Stevens Point WI) 200 Indiana Ave

Stevens Point, Wi 54481

PROJECT NO.: ENGELBRECHT REPORT NO.: 161424.4 DATE REC'D: 08/26/04 REPORT DATE: 08/31/04

PREPARED BY: EAL

Attn: Kyle Wagoner

Sample ID: **B9 8-10'** Matrix: **SOIL** Sample Date/Time: **08/25/04 08:50** Lab No. **161425** 

	<u>Result</u>	<u>Units</u>	LOD	LOQ	Dilution <u>Factor</u> <u>Quali</u>	Date fiers Analy	
EPA 8021 (Only positively	identified	analytes	are repor	ted on a dr	y weight basis		
Benzene	<0.025	mg/kg	0.008	0.027	1	08/2	6/04 LMP
Bromobenzene	<0.025	mg/kg	0.007	0.023	1	08/2	6/04 LMP
Bromodichloromethane	<0.025	mg/kg	0.006	0.02	1	08/2	6/04 LMP
n-Butylbenzene	<0.025	mg/kg	0.012	0.04	1	08/2	
sec-Butylbenzene	<0.025	mg/kg	0.01	0.033	1	08/2	•
tert-Butylbenzene	<0.025	mg/kg	0.01	0.033	1	08/2	
Carbon Tetrachloride	<0.025	mg/kg	0.008	0.027	1	08/2	•
Chlorobenzene	<0.025	mg/kg	0.007	0.023	1	08/2	
Chlorodibromomethane	<0.025	mg/kg	0.02	0.067	1	08/2	-
Chloroethane	<0.025	mg/kg	0.09	0.30	1	08/2	-
Chloroform	<0.025	mg/kg	0.01	0.033	1	08/2	.*
Chloromethane	<0.025	mg/kg	0.01	0.033	1 LC		
2-Chlorotoluene	<0.025	mg/kg	0.008	0.027	1	08/2	
4-Chlorotoluene	<0.025	mg/kg	0.008	0.027	1	08/2	.*
1,2-Dibromo-3-chloropropane	<0.025	mg/kg	0.009	0.03	1 CS	-	
1,2-Dibromoethane	<0.025	mg/kg	0.012	0.04	1	08/2	
1,2-Dichlorobenzene	<0.025 <0.025	mg/kg	0.008 0.008	0.027 0.027	1	08/20 08/20	•
1,3-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	1	08/20	
1,4-Dichlorobenzene Dichlorodifluoromethane	<0.025	mg/kg mg/kg	0.008	0.047	1 05	•	-
1,1-Dichloroethane	<0.025	mg/kg	0.009	0.03	1	08/2	
1,2-Dichloroethane	<0.025	mg/kg	0.005	0.017	i	08/2	
1,1-Dichloroethylene	<0.025	mg/kg	0.016	0.053	1	08/2	.*
cis-1,2-Dichloroethylene	<0.025	mg/kg	0.007	0.023	i	08/2	•
trans-1,2-Dichloroethylene	<0.025	mg/kg	0.01	0.033	1	08/2	
1,2-Dichloropropane	<0.025	mg/kg	0.007	0.023	1	08/2	
1,3-Dichloropropane	<0.025	mg/kg	0.008	0.027	1	08/2	6/04 LMP
2,2-Dichloropropane	<0.025	mg/kg	0.008	0.027	1 CS	SL 08/2	6/04 LMP
Ethylbenzene	<0.025	mg/kg	0.007	0.023	1	08/2	6/04 LMP
Hexachlorobutadiene	<0.025	mg/kg	0.015	0.05	1	08/2	6/04 LMP
Isopropylbenzene	<0.025	mg/kg	0.009	0.03	1	08/2	6/04 LMP
Isopropyl Ether	<0.025	mg/kg	0.014	0.047	1	08/2	
p-Isopropyltoluene	<0.025	mg/kg	0.011	0.037	1	08/2	•
Methyl t-Butyl Ether(MTBE)	<0.025	mg/kg	0.018	0.06	1	08/2	-
Methylene Chloride	<0.025	mg/kg	0.014	0.047	1	08/2	
Naphthalene	<0.025	mg/kg	0.01	0.033	1	08/2	
n-Propylbenzene	<0.025	mg/kg	0.009	0.03	1	08/2	-
Tetrachloroethylene	<0.025	mg/kg	0.009	0.03	1 1 CSH LO	08/2	-
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.006	0.02 0.023	1 CSH LC 1	CH 08/20 08/20	
Toluene	<0.025 <0.025	mg/kg	0.007 0.014	0.023	1	08/20	-
1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene	<0.025	mg/kg	0.014	0.047	1	08/20	•
1,1,1-Trichloroethane	<0.025	mg/kg mg/kg	0.008	0.027	1	08/2	-
1,1,2-Trichloroethane	<0.025	mg/kg	0.006	0.02	i	08/2	
Trichloroethylene	<0.025	mg/kg	0.011	0.037	i	08/2	
Trichlorofluoromethane	<0.025	mg/kg	0.008	0.027	1 09		
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.012	0.04	1	08/2	
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.01	0.033	i	08/2	
Vinyl Chloride	<0.025	mg/kg	0.018	0.06	1 L0		·
m- & p-Xylene	<0.025	mg/kg	0.015	0.05	1	08/2	
o-Xylene´	<0.025	mg/kg	0.008	0.027	1	08/2	
PID Surrogate Recovery (S)	94.2	%	-	-	1	08/2	



Earth Tech, Inc. (Stevens Point WI)

ENVIROSCAN SERVICES 301 WEST MILITARY ROAD ROTHSCHILD, WI 54474 TELEPHONE FACSIMILE WEBSITE 800-338-7226 715-355-3221 www.usfilter.com

PROJECT NO.: ENGELBRECHT REPORT NO.: 161424.5 DATE REC'D: 08/26/04 REPORT DATE: 08/31/04 PREPARED BY: EAL

Attn: Kyle Wagoner

200 Indiana Ave Stevens Point, Wi 54481

Sample ID: **B9 8-10'** 

Matrix: SOIL

Sample Date/Time: 08/25/04 08:50

Lab No. 161425

Dilution Date Factor Qualifiers Result Units LOD LOQ <u>Analyzed</u> <u>Analyst</u> EPA 8021 (Only positively identified analytes are reported on a dry weight basis HALL Surrogate Recovery (S) 125. % 08/26/04 LMP MOSA21-2 83.9 % 08/27/04 Total Solids -0.33 BFV



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200 Indiana Ave

Stevens Point, Wi 54481

PROJECT NO.: ENGELBRECHT REPORT NO.: 161424.6 DATE REC'D: 08/26/04 REPORT DATE: 08/31/04 PREPARED BY: EAL

Attn: Kyle Wagoner

Sample ID: B8 10-12' Matrix: SOIL Sample Date/Time: 08/25/04 09:40 Lab No. 161426

	<u>Result</u>	<u>Units</u>	LOD	<u>LOQ</u>	Dilution <u>Factor</u>	Qualifiers	Date <u>Analyzed</u>	<u>Analyst</u>
EPA 8021 (Only positively	identified	analytes	are repor	ted on a dry	weight ba	asis		
Benzene	<0.025	mg/kg	0.008	0.027	1		08/26/04	LMP
Bromobenzene	<0.025	mg/kg	0.007	0.023	1		08/26/04	LMP
Bromodichloromethane	<0.025	mg/kg	0.006	0.02	1		08/26/04	LMP
n-Butylbenzene	<0.025	mg/kg	0.012	0.04	1		08/26/04	LMP
sec-Butylbenzene	<0.025	mg/kg	0.01	0.033	1		08/26/04	LMP
tert-Butylbenzene	<0.025	mg/kg	0.01	0.033	1		08/26/04	LMP
Carbon Tetrachloride	<0.025	mg/kg	0.008	0.027	1		08/26/04	LMP
Chlorobenzene	<0.025	mg/kg	0.007	0.023	1		08/26/04	LMP
Chlorodibromomethane	<0.025	mg/kg	0.02	0.067	1		08/26/04	LMP
Chloroethane	<0.025	mg/kg	0.09	0.30	1		08/26/04	LMP
Chloroform	<0.025	mg/kg	0.01	0.033	1		08/26/04	LMP
Chloromethane	<0.025	mg/kg	0.01	0.033	1	LCL	08/26/04	LMP
2-Chlorotoluene	<0.025	mg/kg	0.008	0.027	1		08/26/04	LMP
4-Chlorotoluene	<0.025	mg/kg	0.008	0.027	1	2011	08/26/04	LMP
1,2-Dibromo-3-chloropropane	<0.025	mg/kg	0.009	0.03	1	CSH	08/26/04	LMP
1,2-Dibromoethane	<0.025	mg/kg	0.012	0.04	1		08/26/04	LMP
1,2-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	1		08/26/04	LMP
1,3-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	1 1		08/26/04	LMP
1,4-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	1	CSL	08/26/04	LMP
Dichlorodifluoromethane	<0.025 <0.025	mg/kg	0.014 0.009	0.047 0.03	1	LSL	08/26/04	LMP
1,1-Dichloroethane 1,2-Dichloroethane	<0.025	mg/kg mg/kg	0.009	0.03	1		08/26/04 08/26/04	LMP LMP
	<0.025	• •	0.005	0.053	1		08/26/04	LMP
1,1-Dichloroethylene cis-1,2-Dichloroethylene	<0.025	mg/kg mg/kg	0.007	0.023	i		08/26/04	LMP
trans-1,2-Dichloroethylene	<0.025	mg/kg	0.007	0.033	i		08/26/04	LMP
1,2-Dichloropropane	<0.025	mg/kg	0.007	0.023	i		08/26/04	LMP
1,3-Dichloropropane	<0.025	mg/kg	0.008	0.027	i		08/26/04	LMP
2,2-Dichloropropane	<0.025	mg/kg	0.008	0.027	i	CSL	08/26/04	LMP
Ethylbenzene	<0.025	mg/kg	0.007	0.023	i	502	08/26/04	LMP
Hexachlorobutadiene	<0.025	mg/kg	0.015	0.05	<u>i</u>		08/26/04	LMP
Isopropylbenzene	<0.025	mg/kg	0.009	0.03	i		08/26/04	LMP
Isopropyl Ether	<0.025	mg/kg	0.014	0.047	1		08/26/04	LMP
p-Isopropyltoluene	<0.025	mg/kg	0.011	0.037	1		08/26/04	LMP
Methyl t-Butyl Ether(MTBE)	<0.025	mg/kg	0.018	0.06	1		08/26/04	LMP
Methylene Chloride	<0.025	mg/kg	0.014	0.047	1		08/26/04	LMP
Naphthalene	<0.025	mg/kg	0.01	0.033	1		08/26/04	LMP
n-Propylbenzene	<0.025	mg/kg	0.009	0.03	1		08/26/04	LMP
Tetrachloroethylene	0.116	mg/kg	0.009	0.03	1		08/26/04	LMP
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.006	0.02	1	CSH LCH	08/26/04	LMP
Toluene	<0.025	mg/kg	0.007	0.023	1		08/26/04	LMP
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.014	0.047	1		08/26/04	LMP
1,2,4-Trichlorobenzene	<0.025	mg/kg	0.014	0.047	1		08/26/04	LMP
1,1,1-Trichloroethane	<0.025	mg/kg	0.008	0.027	1		08/26/04	LMP
1,1,2-Trichloroethane	<0.025	mg/kg	0.006	0.02	1		08/26/04	LMP
Trichloroethylene	<0.025	mg/kg	0.011	0.037	1		08/26/04	LMP
Trichlorofluoromethane	<0.025	mg/kg	0.008	0.027	1	CSH	08/26/04	LMP
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.012	0.04	1		08/26/04	LMP
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.01	0.033	1		08/26/04	LMP
Vinyl Chloride	<0.025	mg/kg	0.018	0.06	1	LCL	08/26/04	LMP
m- & p-Xylene	<0.025	mg/kg	0.015	0.05	1		08/26/04	LMP
o-Xylene	<0.025	mg/kg °∕	0.008	0.027	1		08/26/04	LMP
PID Surrogate Recovery (S)	97.5	%	-	-	1		08/26/04	LMP



Earth Tech, Inc. (Stevens Point WI)

ENVIROSCAN SERVICES 301 WEST MILITARY ROAD ROTHSCHILD, WI 54474 TELEPHONE FACSIMILE WEBSITE 800-338-7226 715-355-3221 www.usfilter.com

PROJECT NO.: ENGELBRECHT REPORT NO.: 161424.7 DATE REC'D: 08/26/04 REPORT DATE: 08/31/04 PREPARED BY: EAL

Attn: Kyle Wagoner

200 Indiana Ave

Sample ID: B8 10-12'

Stevens Point, Wi 54481

Matrix: SOIL

Sample Date/Time: 08/25/04 09:40

Lab No. 161426

	<u>Result</u>	<u>Units</u>	<u>LOD</u>	LOQ	Dilution <u>Factor</u> Qu	<u>ualifiers</u>	Date <u>Analyzed</u>	Analyst
EPA 8021 (Only positively HALL Surrogate Recovery (S)	identified 123.	•	are re -	ported on a dry -	weight basi: 1	S	08/26/04	LMP
MOSA21-2 Total Solids	80.4	%	-	0.33	-		08/27/04	BFV



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Earth Tech, Inc. (Stevens Point WI) 200 Indiana Ave

Stevens Point, Wi 54481

REPORT NO. : 161424.8 DATE REC'D : 08/26/04 REPORT DATE: 08/31/04

PROJECT NO.: ENGELBRECHT

PREPARED BY: EAL

Attn: Kyle Wagoner

Sample ID: B10 10-12' Matrix: SOIL Sample Date/Time: 08/25/04 10:20 Lab No. 161427

	<u>Result</u>	<u>Units</u>	LOD	<u>LOQ</u>	Dilution <u>Factor</u> <u>Qualifiers</u>	Date <u>Analyzed</u>	Analyst
EPA 8021 (Only positively	identified	analytes	are repor	ted on a dr	y weight basis		
Benzene	<0.025	mg/kg	0.008	0.027	´ 1	08/26/04	LMP
Bromobenzene	<0.025	mg/kg	0.007	0.023	1	08/26/04	LMP
Bromodichloromethane	<0.025	mg/kg	0.006	0.02	1	08/26/04	LMP
n-Butylbenzene	<0.025	mg/kg	0.012	0.04	1	08/26/04	LMP
sec-Butylbenzene	<0.025	mg/kg	0.01	0.033	1	08/26/04	LMP
tert-Butylbenzene	<0.025	mg/kg	0.01	0.033	1	08/26/04	LMP
Carbon Tetrachloride	<0.025	mg/kg	0.008	0.027	1	08/26/04	LMP
Chlorobenzene	<0.025	mg/kg	0.007	0.023	1	08/26/04	LMP
Chlorodibromomethane	<0.025	mg/kg	0.02	0.067	1	08/26/04	LMP
Chloroethane	<0.025	mg/kg	0.09	0.30	1	08/26/04	LMP
Chloroform	<0.025	mg/kg	0.01	0.033	1	08/26/04	LMP
Chloromethane	<0.025	mg/kg	0.01	0.033	1 LCL	08/26/04	LMP
2-Chlorotoluene	<0.025	mg/kg	0.008	0.027	1	08/26/04	LMP
4-Chlorotoluene	<0.025	mg/kg	0.008	0.027	1	08/26/04	LMP
1,2-Dibromo-3-chloropropane	<0.025	mg/kg	0.009	0.03	1 CSH	08/26/04	LMP
1,2-Dibromoethane	<0.025	mg/kg	0.012	0.04	1	08/26/04	LMP
1,2-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	1	08/26/04	LMP
1,3-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	1 1	08/26/04	LMP
1,4-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	•	08/26/04	LMP
Dichlorodifluoromethane	<0.025	mg/kg	0.014 0.009	0.047 0.03	1 CSL 1	08/26/04	LMP
1,1-Dichloroethane 1,2-Dichloroethane	<0.025 <0.025	mg/kg	0.009	0.03	1	08/26/04 08/26/04	LMP LMP
	<0.025	mg/kg	0.003	0.053	1	08/26/04	LMP
1,1-Dichloroethylene cis-1,2-Dichloroethylene	<0.025	mg/kg mg/kg	0.010	0.023	1	08/26/04	LMP
trans-1,2-Dichloroethylene	<0.025	mg/kg	0.007	0.033	i	08/26/04	LMP
1,2-Dichloropropane	<0.025	mg/kg	0.007	0.023	i	08/26/04	LMP
1,3-Dichloropropane	<0.025	mg/kg	0.008	0.027	i	08/26/04	LMP
2,2-Dichloropropane	<0.025	mg/kg	0.008	0.027	1 CSL	08/26/04	LMP
Ethylbenzene	<0.025	mg/kg	0.007	0.023	1	08/26/04	LMP
Hexachlorobutadiene	<0.025	mg/kg	0.015	0.05	1	08/26/04	LMP
Isopropylbenzene	<0.025	mg/kg	0.009	0.03	1	08/26/04	LMP
Isopropyl Ether	<0.025	mg/kg	0.014	0.047	1	08/26/04	LMP
p-Isopropyltoluene	<0.025	mg/kg	0.011	0.037	1	08/26/04	LMP
Methyl t-Butyl Ether(MTBE)	<0.025	mg/kg	0.018	0.06	1	08/26/04	LMP
Methylene Chloride	<0.025	mg/kg	0.014	0.047	1	08/26/04	LMP
Naphthalene	<0.025	mg/kg	0.01	0.033	1	08/26/04	LMP
n-Propylbenzene	<0.025	mg/kg	0.009	0.03	1	08/26/04	LMP
Tetrachloroethylene	<0.025	mg/kg	0.009	0.03	1	08/26/04	LMP
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.006	0.02	1 CSH LCH	08/26/04	LMP
Toluene	<0.025	mg/kg	0.007	0.023	1	08/26/04	LMP
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.014	0.047	1	08/26/04	LMP
1,2,4-Trichlorobenzene	<0.025	mg/kg	0.014	0.047	1	08/26/04	LMP
1,1,1-Trichloroethane	<0.025	mg/kg	0.008	0.027	1	08/26/04	LMP
1,1,2-Trichloroethane	<0.025	mg/kg	0.006	0.02	1	08/26/04	LMP
Trichloroethylene	<0.025	mg/kg	0.011	0.037	1	08/26/04	LMP
Trichlorofluoromethane	<0.025	mg/kg	0.008	0.027	1 CSH	08/26/04	LMP
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.012	0.04	1	08/26/04	LMP
1,3,5-Trimethylbenzene	<0.025 <0.025	mg/kg	0.01 0.018	0.033 0.06	1 1 LCL	08/26/04	LMP
Vinyl Chloride m- & p-Xylene	<0.025	mg/kg	0.015	0.05	1	08/26/04 08/26/04	LMP LMP
o-Xylene	<0.025	mg/kg mg/kg	0.008	0.03	1	08/26/04	LMP
PID Surrogate Recovery (S)	96.0	11197 Kg %	-	-	1	08/26/04	LMP
. 15 Carrogate Recovery (3)	70.0	/0			•	00, 00, 04	C) 11



Earth Tech, Inc. (Stevens Point WI)

ENVIROSCAN SERVICES 301 WEST MILITARY ROAD ROTHSCHILD, WI 54474 TELEPHONE FACSIMILE WEBSITE 800-338-7226 715-355-3221 www.usfilter.com

PROJECT NO.: ENGELBRECHT REPORT NO.: 161424.9 DATE REC'D: 08/26/04 REPORT DATE: 08/31/04 PREPARED BY: EAL

Attn: Kyle Wagoner

Stevens Point, Wi 54481

200 Indiana Ave

Sample ID: B10 10-12' Matrix: SOIL Sample Date/Time: 08/25/04 10:20 Lab No. 161427

Dilution Date Result Units LOD LOQ Factor Qualifiers <u>Analyzed</u> <u>Analyst</u> **EPA 8021** (Only positively identified analytes are reported on a dry weight basis HALL Surrogate Recovery (S) 125. % 08/26/04 LMP MOSA21-2 Total Solids 83.7 % -0.33 08/27/04 BFV



TELEPHONE FACSIMILE WEBSITE 800-338-7226 715-355-3221 www.usfilter.com

A Siemens Business

Earth Tech, Inc. (Stevens Point WI) 200 Indiana Ave Stevens Point, Wi 54481

REPORT NO.: 161424.10 DATE REC'D: 08/26/04 REPORT DATE: 08/31/04 PREPARED BY: EAL

PROJECT NO.: ENGELBRECHT

Attn: Kyle Wagoner

Sample ID: B11A 10-12' Matrix: SOIL Sample Date/Time: 08/25/04 11:45 Lab No. 161428

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	Dogula	Umita	1.00	1.00	Dilution	Qualifiers	Date Analyzed	Analyst
	<u>Result</u>	<u>Units</u>	<u>LOD</u>	LOQ	<u>Factor</u>	<u>quat i i i ei s</u>	Allatyzeu	Analyst
EPA 8021 (Only positively	identified	analytes	are repor	ted on a dry	/ weight b	asis		
Benzene (ont) positivety	<0.025	mg/kg	0.008	0.027	1		08/26/04	LMP
Bromobenzene	<0.025	mg/kg	0.007	0.023	1		08/26/04	LMP
Bromodichloromethane	<0.025	mg/kg	0.006	0.02	1		08/26/04	LMP
n-Butylbenzene	<0.025	mg/kg	0.012	0.04	1		08/26/04	LMP
sec-Butylbenzene	<0.025	mg/kg	0.01	0.033	1		08/26/04	LMP
tert-Butylbenzene	<0.025	mg/kg	0.01	0.033	1		08/26/04	LMP
Carbon Tetrachloride	<0.025	mg/kg	0.008	0.027	1		08/26/04	LMP
Chlorobenzene	<0.025	mg/kg	0.007	0.023	1		08/26/04	LMP
Chlorodibromomethane	<0.025	mg/kg	0.02	0.067	1		08/26/04	LMP
Chloroethane	<0.025	mg/kg	0.09	0.30	1		08/26/04	LMP
Chloroform	<0.025	mg/kg	0.01	0.033	1		08/26/04	LMP
Chloromethane	<0.025	mg/kg	0.01	0.033	1	LCL	08/26/04	LMP
2-Chlorotoluene	<0.025	mg/kg	0.008	0.027	1		08/26/04	LMP
4-Chlorotoluene	<0.025	mg/kg	0.008	0.027	1		08/26/04	LMP
1,2-Dibromo-3-chloropropane	<0.025	mg/kg	0.009	0.03	1	CSH	08/26/04	LMP
1,2-Dibromoethane	<0.025	mg/kg	0.012	0.04	1		08/26/04	LMP
1,2-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	1		08/26/04	LMP
1,3-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	1		08/26/04	LMP
1,4-Dichlorobenzene	<0.025	mg/kg	0.008	0.027	1		08/26/04	LMP
Dichlorodifluoromethane	<0.025	mg/kg	0.014	0.047	1	CSL	08/26/04	LMP
1,1-Dichloroethane	<0.025	mg/kg	0.009	0.03	1		08/26/04	LMP
1,2-Dichloroethane	<0.025	mg/kg	0.005	0.017	1		08/26/04	LMP
1,1-Dichloroethylene	<0.025	mg/kg	0.016	0.053	1		08/26/04	LMP
cis-1,2-Dichloroethylene	<0.025	mg/kg	0.007	0.023	1		08/26/04	LMP
trans-1,2-Dichloroethylene	<0.025	mg/kg	0.01	0.033	1		08/26/04	LMP
1,2-Dichloropropane	<0.025	mg/kg	0.007	0.023	1		08/26/04	LMP
1,3-Dichloropropane	<0.025	mg/kg	0.008	0.027	1		08/26/04	LMP
2,2-Dichloropropane	<0.025	mg/kg	800.0	0.027	1	C\$L	08/26/04	LMP
Ethylbenzene	<0.025	mg/kg	0.007	0.023	1		08/26/04	LMP
Hexachlorobutadiene	<0.025	mg/kg	0.015	0.05	1		08/26/04	LMP
Isopropylbenzene	<0.025	mg/kg	0.009	0.03	1		08/26/04	LMP
Isopropyl Ether	<0.025	mg/kg	0.014	0.047	1		08/26/04	LMP
p-Isopropyltoluene	<0.025	mg/kg	0.011	0.037	1		08/26/04	LMP
Methyl t-Butyl Ether(MTBE)	<0.025	mg/kg	0.018	0.06	1		08/26/04	LMP
Methylene Chloride	<0.025	mg/kg	0.014	0.047	1 1		08/26/04	LMP
Naphthalene	<0.025	mg/kg	0.01	0.033			08/26/04	LMP
n-Propylbenzene	<0.025	mg/kg	0.009	0.03	1 1		08/26/04	LMP
Tetrachloroethylene	<0.025	mg/kg	0.009	0.03	1	CCII I CII	08/26/04	LMP LMP
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.006	0.02	1	CSH LCH	08/26/04	LMP
Toluene	<0.025	mg/kg	0.007	0.023	1		08/26/04	
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.014	0.047 0.047	1		08/26/04 08/26/04	LMP LMP
1,2,4-Trichlorobenzene	<0.025	mg/kg	0.014		1			
1,1,1-Trichloroethane	<0.025	mg/kg	0.008	0.027	1		08/26/04	LMP
1,1,2-Trichloroethane	<0.025	mg/kg	0.006 0.011	0.02 0.037	1		08/26/04 08/26/04	LMP LMP
Trichloroethylene	<0.025	mg/kg			1	CSH	08/26/04	LMP
Trichlorofluoromethane	<0.025	mg/kg	0.008 0.012	0.027 0.04	1	Lon	08/26/04	LMP
1,2,4-Trimethylbenzene	<0.025	mg/kg			1			LMP
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.01 0.018	0.033 0.06	1	LCL	08/26/04 08/26/04	LMP
Vinyl Chloride	<0.025 <0.025	mg/kg	0.015	0.05	1	LUL	08/26/04	LMP
m- & p-Xylene	<0.025	mg/kg	0.008	0.03	1		08/26/04	LMP
o-Xylene PID Surrogate Recovery (S)	98.8	mg/kg %	-	-	1		08/26/04	LMP
FID Suilogate Recovery (5)	70.0	70			,		00, 20, 04	



Earth Tech, Inc. (Stevens Point WI)

ENVIROSCAN SERVICES 301 WEST MILITARY ROAD ROTHSCHILD, WI 54474 TELEPHONE FACSIMILE WEBSITE 800-338-7226 715-355-3221 www.usfilter.com

PROJECT NO.: ENGELBRECHT REPORT NO.: 161424.11 DATE REC'D: 08/26/04 REPORT DATE: 08/31/04 PREPARED BY: EAL

Attn: Kyle Wagoner

200 Indiana Ave Stevens Point, Wi 54481

Sample ID: B11A 10-12' Matrix: SOIL

Sample Date/Time: 08/25/04 11:45 Lab No. 161428

	<u>Result</u>	<u>Units</u>	<u>LOD</u>	LOQ	Dilution Factor Qualifiers	Date <u>Analyzed</u>	Analyst
<u>EPA 8021</u> (Only positively HALL Surrogate Recovery (S)	identified 123.			oorted on a dry -	weight basis 1	08/26/04	LMP
MOSA21-2 Total Solids	81.5	%	-	0.33	-	08/27/04	BFV

All results calculated on a dry weight basis.

## **Qualifier Descriptions**

LCL

	a low bias. Sample results may also be biased low.
CSH	Check standard for this analyte exhibited a high bias. Sample results may also be biased high.
CSL	Check standard for this analyte exhibited a low bias. Sample results may also be biased low.
LCH	The laboratory control sample for this analyte exibited a high bias. Sample results may also be biased high.

The laboratory control sample for this analyte exibited

