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COMBINED PA/SI NARRATIVE REPORT FOR THE ABBOTSFORD PCE INVESTIGATION

Site Name: Abbotsford PCE Investigation

U.S. EPA ID#: WIN 000508270

Report Prepared By: Wisconsin Department Natural Resources
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WISCONSIN
DEPT. OF NATURAL RESOURCES

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
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September 26, 2003

Laura Ripley, Early Action Proj. Mgr., SE-J4
U.S. Environmental Protection Agency
77 W. Jackson Blvd.
Chicago, IL 60604

Subject: Abbotsford PCE Investigation PA/SI Report

Dear Ms. Ripley:

Accompanying this letter is 1) the subject report with two signature pages, 2) a Summary Scoresheet memorandum, 3) and a Transmittal Memorandum. If you have any questions about any of these documents, please feel free to contact me at (608) 264-6008.

Sincerely,

Mike Netzer, P.G., Hydrogeologist
Waste Management Specialist
Remediation & Redevelopment Program

CC: John Grump - WCR
Loren Brumberg - WCR
Bill Evans - WCR

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1.0 Introduction

Under authority of the Comprehensive Environmental Response Compensation Liability Act of 1980 (CERCLA), and the Superfund Amendments and Reauthorization Act of 1986 (SARA), the Wisconsin Department of Natural Resources (WDNR) was tasked by the United States Environmental Protection Agency (U.S. EPA) to conduct a Combined Preliminary Assessment (PA)/Screening Site Inspection (SSI) at the Abbotsford PCE Investigation Sites as part of the FY '02 Cooperative Agreement.

U.S. EPA ID#:	WIN 000508270
Locations:	City of Abbotsford Landfill - North end of Galvin Road, Abbotsford, WI, Marathon County, N44° 57.323', W090° 18.353'
	Former Walt's Dry Cleaners – 112 North Fourth Street (Highway 13), Abbotsford, WI, Marathon County, N44° 56.867',W090° 18.952'
Directions to Sites:	From the intersection of State Highway 13 and State Highway Business 29 in Abbotsford, WI go east ¼ mile on Business 29 to Eighth Street. Go north on Eighth Street, which becomes Birch Street, and turn right on Birch Street. Follow Birch Street to the right and it becomes Galvin Road. Galvin Road deadends into the Abbotsford landfill.
	Highway 13, ½ Block North of State Highway Business 29, Abbotsford, WI, Marathon County

The purpose of this investigation was to collect information, concerning conditions at the Abbotsford PCE Investigation Sites, that is sufficient to assess the threat posed to human health and the environment, and to determine the need for additional investigation under CERCLA or other authority, and if appropriate, support site evaluation using the Hazard Ranking System (HRS) for proposal to the National Priorities List (NPL). The scope of the investigation included reviewing previous information, sampling environmental media to test Preliminary Assessment (PA) hypotheses and to evaluate and document HRS factors, collecting additional non-sampling information and interviewing nearby residents. The objective of the investigation was to determine if either The City of Abbotsford Landfill and/or the Former Walt's Dry Cleaners were contributing to the documented PCE (Perchloroethylene) groundwater contamination of down-gradient municipal and private wells.

2.0 Site Description and Regulatory History

The site is an area that contains groundwater contamination, which is impacting a municipal well and several private wells. The locations of the affected public wells and

private wells are shown on Figure 2. Driller's logs for these wells that could be located are in Appendix B.

All of these wells are finished in the unconsolidated formation that lies directly above the granitic bedrock. The impacted municipal well is Municipal Well #11. It is located approximately one (1) mile due east of the landfill with location coordinates N44° 57.023', W90° 16.968'. It pumps to Abbotsford's main treatment plant that utilizes UV and ozone treatment to remove the contaminants. Three of the households with contaminated wells are being supplied with bottled water for drinking. The other household has been equipped with an activated carbon whole-house filter. Other areas of impact are listed in Table 1.

The two potential sources (i.e., Potential Responsible Parties [PRPs]) of this groundwater contamination include the City of Abbotsford Landfill and the former Walt's Dry Cleaners. The City of Abbotsford Landfill is located on the eastern edge of the city. The location coordinates are N44° 57.323', W90° 18.353'. Prior to the landfill development the property was the Lueth Farm. The Lueth farm was 80 acres in size with the landfill being located on the western edge of the property. The site is located approximately 1/4 mile east of State Highway 13 and 1/2 mile north of Business Highway 29. Adjoining properties include agricultural land, residential, woodland, commercial and wetlands. The landfill plan of operation was approved on August 21, 1981. The City of Abbotsford landfill was operated as a municipal sanitary landfill from December 23, 1981 until June 15, 2000. The fill area of the landfill is approximately 2.4 acres with a design capacity of 49,430 cubic yards. The landfill contains a clay liner, which is composed of onsite material, and a leachate collection system above the liner. The leachate is conveyed by a sanitary sewer to the Abbotsford Sewage Treatment Plant. There are no reported hazardous substance spills on this property. The site closure plan has been approved and site closure activities are on-going. The site has been capped and a gas venting system has been installed. The landfill property is relatively flat with the exception of the fill area and adjoining soil and recycled asphalt piles. See Figure 1 for a site layout sketch.

The City of Abbotsford Landfill has a groundwater monitoring network of water table observation wells and piezometers. Groundwater levels in the historic landfill soil borings ranged from 10 to 20 feet below ground surface. All of these water table observation wells and piezometers are terminated in the unconsolidated material above the bedrock. This network was installed in 1980 and 1981. The historical Volatile Organic Compounds data from this well network have shown no detects of chlorinated compounds or their breakdown products.

The former Walt's Dry Cleaners is located in a commercial/residential area within the city limits of Abbotsford at 112 North Fourth Street (State Highway 13). The location coordinates are: N44° 56.867', W090° 18.952'. This site was operated as a dry cleaning facility until the late 1980's.

Groundwater flow direction at the landfill is to the east-northeast (Figure 1). Flow direction in the vicinity of the former dry cleaner is to the east near a groundwater divide. Surface water drainage in the vicinity of these sites is toward Porky Creek which flows through the northeast portion of the landfill property.

Two of the well nests (wells MW - 14 and 14A and MW-15 and 15A) installed during the PA/SI were intended to look for these compounds in an east-northeasterly direction (down gradient) from the landfill waste area. Well B-4A was also installed during the PA/SI and was intended to serve as an up-gradient, background well. The other monitoring well nest installed during the PA/SI consists of wells MW-16 and MW-16A and was intended to look for PCE contamination possibly originating from the former dry cleaner property. Monitoring well locations are shown on Figure 1. Boring logs, monitoring well construction forms and monitoring well development forms are contained in Appendix C, D and E respectively.

The Wisconsin Department of Natural Resources (DNR) contracted for a soil gas survey in the vicinity of the City of Abbotsford Landfill and the former Walt's Dry Cleaners in March, 2001. Trichloroethylene (TCE) was detected in the soil gas, to the east of the former dry cleaners at a concentration of 17 parts per billion. No other compounds were detected in the soil gas near either of these sites. TCE was detected in the vicinity of Municipal Well # 11 (Figure 2) and the former railroad right-of-way. Due to the silty nature of the native soils in this area, retrieval of the soil gas from the Geoprobes was difficult or impossible. Based on the results of this survey, groundwater monitoring wells MW-16 and MW-16A were located at the site of the TCE detect (Figure 1). Refer to Table 1 for historical groundwater data.

3.0 Operational History and Waste Characteristics

A license was issued to the City of Abbotsford for the operation of their landfill by the Wisconsin DNR in 1981. The municipal landfill accepted residential, commercial and industrial wastes. The plan of operation called for daily cover of the waste. There are several references in the case file documenting operation without the daily cover. There is also file documentation of unauthorized burning of non-hazardous wood wastes on the landfill property.

The original operator of Walt's Dry Cleaners was Mr. Walter Danielson. Mr. Danielson is in a nursing home and is incapacitated. The facility was subsequently owned and operated by Ms. Lucy Fosterling, who is deceased. Her son, Mr. Michael Fosterling, currently owns this property, but had no knowledge of the operation. The property is currently unused and for sale. According to the owner of Abbotsford Oil Company, Inc., Mr. Jack Wild, he supplied Stoddard solvent to a 500-gallon underground storage tank (UST) at Walt's Dry Cleaners for Mr. Danielson. The status of the former storage tank is unknown. There is no evidence of a fill pipe at this time. Mr. Donald Wittkamp, who resides at the property just north of the former dry cleaners (118 North Fourth Street), stated that Ms. Fosterling used perchloroethylene (PCE) for dry cleaning and disposed of the waste down the sanitary sewer. This statement could not be verified by another source. Mr. Wittkamp also stated that in the 1970's, during a flood event, the UST at Walt's was inundated with water and the Stoddard solvent in the tank was displaced by

water allowing a solution of water and solvent to flow to the East and killed the vegetation in a neighbor's garden. This was verified by Mr. Wild and was due to the unsealed fill pipe terminus on the UST being near the ground surface.

4.0 DISCUSSION OF MIGRATION PATHWAYS

Down-gradient of the City of Abbotsford Landfill and the Former Walt's Dry Cleaners are municipal and private wells that are contaminated with perchloroethylene (PCE). In addition, trichloroethylene, (TCE), was detected at depth in the soil gas to the east of Walt's dry cleaners. See Table 1 for historical data. Consequently, this combined PA/SI was conducted to evaluate the quality of the groundwater down-gradient from both of these sites.

4.1 GROUNDWATER

These sites are shown in the Soil Survey of Marathon County as being on glacial till units with a loess mantle ½ to 2 feet thick. The principal aquifer for the City of Abbotsford area is the glacial till. Glacial till in this area is commonly referred to as "border drift". There are three (3) distinct drift units which are characterized by their till texture and surface topography. These drifts vary in their clay content and contain varying degrees of coarser material. These drift units contain sand and silty sand seams. Soil boring data at the landfill and well logs of private and municipal wells in this area indicate sand seams are present within the glacial till. These sand seams appear to be the major source of recharge to the upper aquifer in this area. Bedrock beneath the sites consists of crystalline bedrock. The crystalline bedrock is present at a depth of 30 to 40 feet below the ground surface. There is also evidence of a thin mantle of sandstone above the crystalline bedrock. This thin mantle is well weathered and is sporadic over the lower bedrock surface. In addition, the upper crystalline bedrock is a well-weathered schist. This weathered surface along with the sand seams appear to be the major routes of contaminant transport since they provide the highest hydraulic conductivities in the aquifer system around the City of Abbotsford.

According to WDNR records, there are as many as 407 private wells located within a four-mile radius of the potential source sites that were evaluated for this PA/SI. However, their exact location is beyond the scope of the PA/SI. Information about the population estimates and the number of wells within a four mile radius of the potential source areas are contained in Appendix F.

In the identified down-gradient plume area, it appears that only wells terminated in the till units are contaminated while adjacent wells which are cased into the bedrock are uncontaminated. The contamination found in down-gradient wells is perchloroethylene (PCE). These contaminated wells terminate above the bedrock surface and intersect layers of higher hydraulic conductivity. The higher density of the PCE will facilitate its migration to these higher conductivity and weathered areas while the competent bedrock may inhibit its vertical migration.

4.2 SURFACE WATER

The surface water features in the vicinity of the City of Abbotsford Landfill include wetland complexes and Porky Creek. The headwaters of Porky Creek consist of a wetland just upstream from the landfill property. There are no surface water features around the former Walt's Dry Cleaners or between this area and the landfill property. Porky Creek enters the Big Eau Pleine River approximately five (5) miles from the landfill property as it meanders to the east-southeast. Since the depth of the streambed is well above the static groundwater levels, the topography in the area has very low relief and the glacial heritage of the surficial deposits there is little indication that the contaminated groundwater plume is adversely impacting the surface water system. In addition, there is no evidence that the known contamination entered the subsurface via the surface water system in the area.

During landfill development and subsequent closure no surface drainage from the fill area was allowed to migrate to the surface waters of Porky Creek. This was accomplished through the use of infiltration basins around the landfill area that captured surface drainage before it could migrate to the surface water via wetlands or Porky Creek.

The surface water in this area is not used as a potable drinking water source. No surface water samples were collected during this investigation.

There are no mapped wetland areas near these sites with the exception of the headwaters of Porky Creek. However, there are small wetland areas to the north and east of the landfill site that are adjacent to Porky Creek. These include marsh and open water areas that occupy the floodplain of Porky Creek. Porky Creek is identified as a warm water forage fishery. The Big Eau Pleine River is a warm water sport fishery.

4.3 SOIL EXPOSURE

There are no workers, residents, schools or day-care facilities within 200 feet of the landfill. The former dry cleaner is in a commercial/residential neighborhood with residents and workers within 200 feet of the property. There are no sensitive terrestrial environments or resources near these facilities. The population within a mile of these sites is 2,001. No surficial soil samples were collected during this investigation.

The soil samples collected during this investigation were collected at depth, either at the water table or at the boring terminus. Historical soil data indicate that the potential contamination at these sites would have migrated to the soil at depth either through breaks in the sewer lines or out the bottom of the landfill. Trichloroethylene was detected at a depth of ten (10) feet during the soil gas

survey. This depth is commensurate with the groundwater elevation. These data can be found in Table 1. Therefore, no evidence has been presented, nor is it anticipated, that contaminants in soil are present at either site that exceed health-based standards or present a direct contact threat.

4.4 AIR

The population within four (4) miles of these sites is 5,901. The only air monitoring data that were collected during the investigation include ambient air sampling during the drilling activities. There was no indication of the presence of volatile organic compounds during this monitoring.

5.0 SUMMARY AND CONCLUSIONS

The City of Abbotsford landfill was operated as a municipal sanitary landfill from December 23, 1981 until June 15, 2000. The fill area of the landfill is approximately 2.4 acres with a design capacity of 49,430 cubic yards. The former Walt's Dry Cleaners is located in a commercial/residential area within the city limits of Abbotsford at 112 North Fourth Street (State Highway 13). This site was operated as a dry cleaning facility until the late 1980's. The objective of the investigation was to determine if either one or both of these sites were contributing to the documented PCE groundwater contamination of down-gradient municipal and private wells. The principal pathway of concern was the groundwater down-gradient from these sites. Both soil and groundwater samples were collected from the seven (7) borings constructed during this investigation. These borings were all converted to either water table observation wells or deep piezometers. The soil samples were collected at the soil/groundwater interface or at the boring terminus. The water samples were collected from the completed monitoring wells.

The soil and groundwater data are summarized in Table 2 and Table 3, respectively. The only detects in the soil samples were for metals. The levels observed were well within normal background levels at these sites. The water samples were analyzed for volatiles, semi-volatiles, pesticides/PCB's and metals. The volatile samples arrived at the contract lab containing numerous air bubbles. Consequently, additional volatile water samples were collected and analyzed at the Wisconsin Laboratory of Hygiene.

The volatile components that were detected in these samples were BTEX compounds related to refined petroleum. These detections are related to underground storage tank releases that have been documented up-gradient from these sites. Other detected compounds in these water samples are at normal background levels or are unrelated to activities at these sites.

The results of this inspection effort appear to show that neither of these sites are contributing to the groundwater contamination found in down-gradient municipal and private wells.

REFERENCES

Central Wisconsin Engineers and Architects. Abbotsford Oil Company Groundwater Flow Map, Figure 1. February, 11, 1998.

Gremmer and Bablitch. Site Documentation Report. December 16, 1981.

Gremmer and Bablitch. "Initial Site Report/Feasibility Study, City of Abbotsford Solid Waste Landfill." December 1980.

Gremmer and Bablitch. "Operations Manual and Design Report, City of Abbotsford Solid Waste Landfill." May 1981.

Short, Elliott, Hendrickson, Inc. "Closure Plan - Abbotsford Sanitary Landfill." May 1996.

Soil Testing Services of Wisconsin, Inc. "Site Documentation Report/Soil Report - Abbotsford Landfill." December 16, 1981.

United States Department of Agriculture. "Soil Survey of Marathon County, Wisconsin." Soil Conservation Service. 1989.

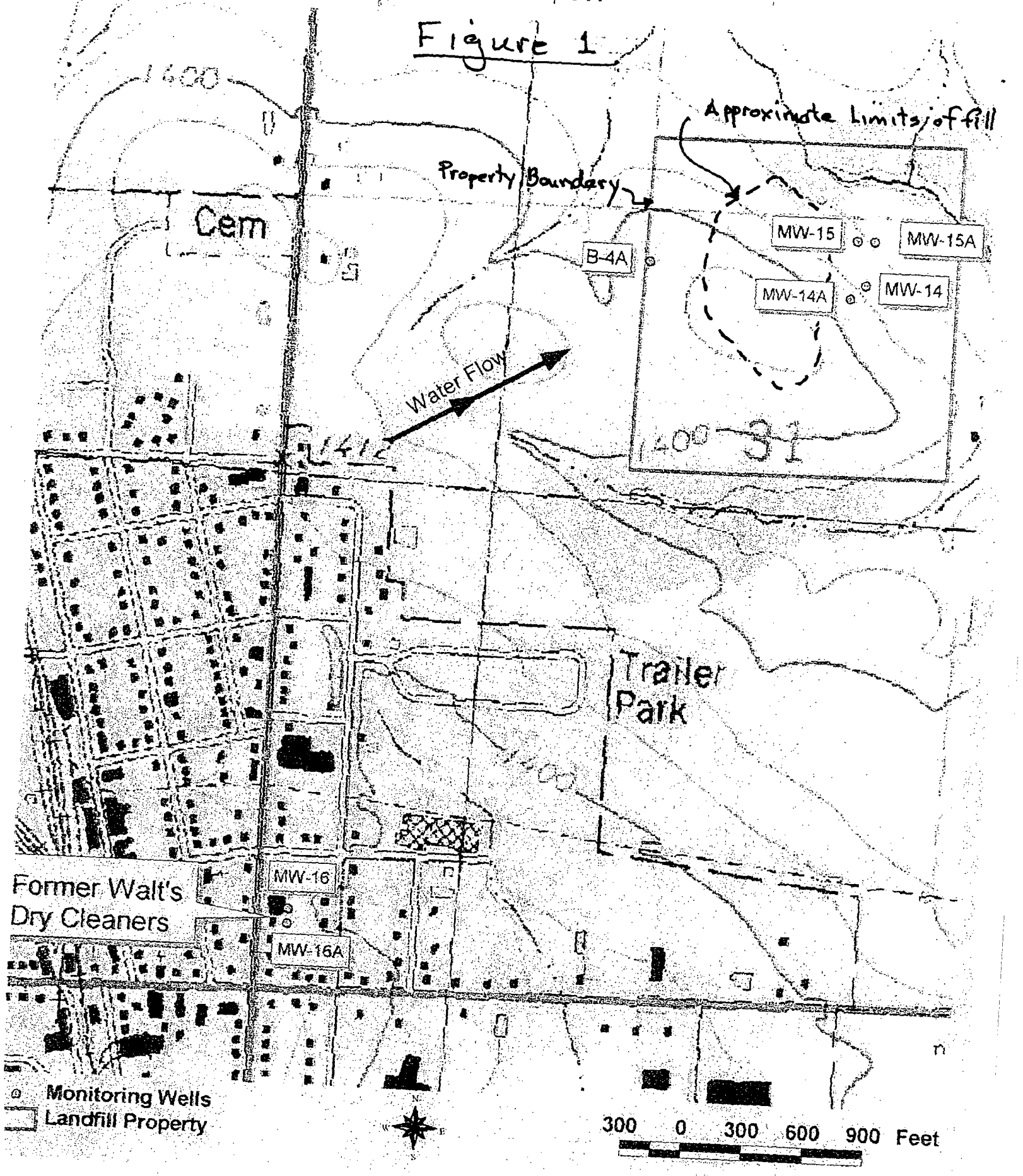
Wisconsin Geological and Natural History Survey. "Bedrock Geology of Wisconsin, West-Central Sheet." 1988.

FIGURES

Abbotsford PCE Investigation

Abbotsford, WI

Figure 1



Abbotsford PCE Investigation

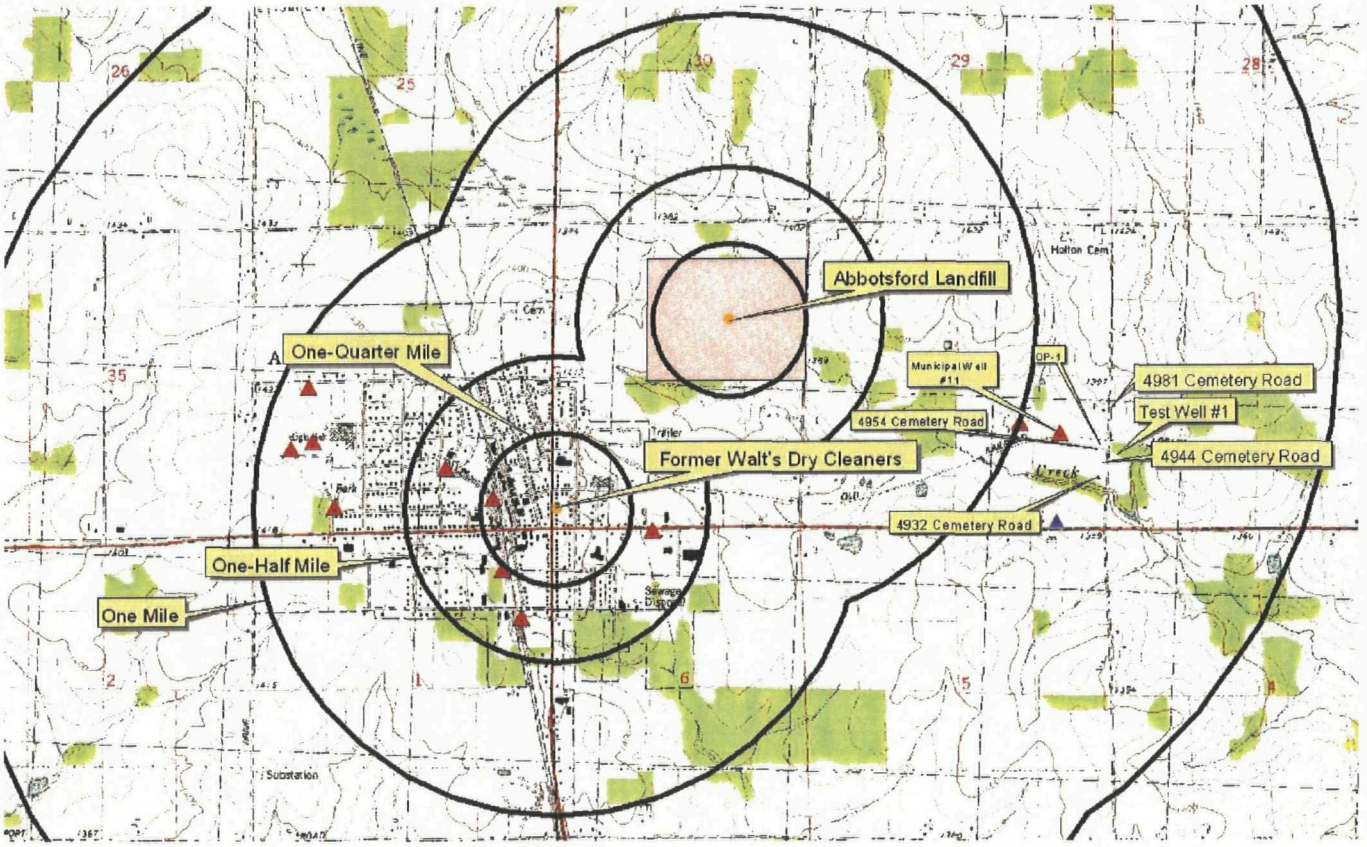


Figure 2

TABLES

TABLE 1

Historical Data

Sample Location	Media Analyzed	Analytical Parameters	Date Sampled	Contaminants Detected	Concentration
East edge of Former Walt's Dry Cleaners Property	Soil Gas at 10 foot depth	VOCs	04/24/01	Trichloroethylene TCE	17 µg/L
4981 Cemetery Road	Private Well	VOCs	06/21/00	Tetrachloroethylene PCE	7.7 µg/L
4954 Cemetery Road	Private Well	VOCs	07/10/00	Tetrachloroethylene PCE	3.3 µg/L
4944 Cemetery Road	Private Well	VOCs	07/10/00	Tetrachloroethylene PCE	84.0 µg/L
4932 Cemetery Road	Private Well	VOCs	06/24/00	Tetrachloroethylene PCE	1.4 µg/L
OP - 1	Monitoring Well	VOCs	10/08/92 10/14/92	Tetrachloroethylene PCE	101µg/L 65.5 µg/L
Test Well #1	Municipal Test Well	VOCs	01/06/00	Tetrachloroethylene PCE	200 µg/L
Well #11	Municipal Well	VOCs	05/31/00	Tetrachloroethylene PCE	3.4 µg/L

Notes:

1. See Figure 2 for Sample Locations
2. µg/L = micrograms per Liter

TABLE 2
Soil Analytical Data PA/SI Results

Sample Location	SS-1A	SS-2B	SS-3B	SS-4A	SS-4B	SS-5A	SS-6A	SS-7A	SS-8A	SS-8B
Date Sampled	06/03/2002	06/06/2002	06/05/2002	06/06/2002	06/06/2002	06/03/2002	06/05/2002	06/05/2002	06/03/2002	06/05/2002
Depth	WT	BT	BT	WT	BT	WT	WT	WT	WT	BT
Boring Number	MW-16A	MW-15A	MW-14A	B-4A	B-4A	MW-16	MW-15	MW-14	MW-16	MW-14A
Aluminum	8880	15300	10100	9230	17600	6980	16200	11700	7780	9130
Arsenic	1.3	1.9	2	2.2	1.8	1.1	3.7	2.3	1.4	2.9
Beryllium	0.4	1.1	0.46	0.42	0.76	0.36	0.69	0.45	0.39	0.51
Cadmium	0.27J	0.33J	0.36J	0.28J	0.38J	0.27J	0.52J	0.38J	0.27J	0.29J
Calcium	2990	3370	22100	3210	73730	11200	4550	1750	14300	7140
Chromium	20.5	23.4	21.3	21	26	16	40.3	28.9	16.8	18.9
Cobalt	6.3	8.5	6.4	7.8	6.1	5.2	16.7	5.9	5.9	6.9
Copper	61.6	84.4	55.6	75.2	46.8	45.1	92.1	93.7	54.6	52.3
Iron	13800	16700	15700	15600	17900	116500	25200	18500	12800	14900
Lead	5.1	6	5.5	4.9	9.8	3.7	6.4	3.7	4	4.9
Magnesium	3210	5710	6470	3590	3490	5110	5590	3440	5670	3360
Manganese	197	157	387	141	90.4	141	240	146	158	260
Mercury	0.056	0.064	0.089	0.14	0.059	0.06	0.06	0.062	0.051	0.07
Nickel	15	1806	13.5	18.7	15.3	12.2	31.2	17.9	13	11.3
Potassium	803	5410	1220	710	812	716	1380	600	834	1170
Selenium	0.81J	0.56J	X	0.64J	0.66J	0.48J	1.1J	1J	0.7J	0.8J
Vanadium	28.2	28.8	35.2	35.9	38.2	28.6	50.3	44.8	30.8	31
Zinc	26.7J	27.9J	24.7J	25.8J	22.6J	20.1J	43.6J	28.6J	21.6J	21J

WT Indicates Water Table
BT Indicates Boring Terminus
X Indicates that the analyte was not detected above quantitation limit
J Indicates the quantified value is an estimate
All values are in milligrams per kilograms

TABLE 3
GROUNDWATER ANALYTICAL DATA PA/SI RESULTS

VOLATILE ORGANIC COMPOUNDS								
SAMPLE LOCATION	MW-15A	MW-15AA	MW-15AB	MW - 16A	MW - 16	MW-15A Dup.	MW-15AA Dup	MW-15AB Dup
DATE SAMPLED	06/24/2002	07/16/2002	07/16/2002	06/25/2002	06/25/2002	06/24/2002	07/16/2002	07/16/2002
Ethylbenzene	X	0.83	0.82	2	X	X	0.88	0.83
Total Xylenes	2	3.1	3.1	11	X	2	3.4	3.2
Toluene	X	X	X	0.6	X	X	X	X
Benzene	X	X	X	0.7	X	X	X	X
SEMI-VOLATILE ORGANIC COMPOUNDS								
Phenol	X	X	X	2J	X	X	X	X
Caprolactam	X	X	X	X	2J	X	X	X
METALS								
SAMPLE LOCATION	B-4A	MW-14	PZ-14A	MW-15	MW-15A	MW-16	MW-16A	
DATE SAMPLED	06/24/2002	06/24/2002	06/24/2002	06/24/2002	06/24/2002	06/24/2002	06/24/2002	
Aluminum	30.2 M	60.8	36.4	33.8	94.2	106	39.8M	
Antimony	X	X	X	X	X	3MX	X	
Arsenic	X	X	0.9	X	1.0M	209	X	
Barium	51.9	30.4	35.9	120	108	136000	145	
Calcium	49100	12700	43800	47100	49800	X	76700	
Chromium	1.1	0.6 M	1.9	0.6M	X	X	X	
Iron	X	44.7	X	X	61.5	38300	X	
Magnesium	14500	4170	9800	14100	17400	774	23300	
Manganese	53.6	108	6.5	400	339	6.5	2950	
Nickel	1.4 M	1.6 M	1.1M	2.1M	1.5M	2380	10.4	
Potassium	732	730	543	1880	2660	40500	4530	
Sodium	9860	6510	5270	9860	8460	16.1M	21000	
Zinc	X	X	13.1M	11M	X		X	

Notes:

1. All results are in micrograms per Liter
2. X indicates that analyte was not detected above quantitation limit
3. M indicates the quantified value is an estimate
4. J indicates the quantified value is an estimate
5. MW-15A sample analyzed by CLP
6. MW-15AA analyzed by SLOH and preserved with HCL
7. MW-15AB analyzed by SLOH, no HCL preservative

APPENDICES

Appendix A Photodocumentaion Log

PHOTO 1
6/24/2002 Photo Taken by John Grump
SAMPLING MW-15 AND MW-15A

PHOTO 2
6/24/2002 Photo Taken by John Grump
SAMPLING MW-14 AND MW-14A

PHOTO 3
6/3/2002 Photo Taken by John Grump
DRILLING MW-16

PHOTO 4
6/6/2002 Photo Taken by John Grump
DRILLING B-4A

PHOTO 5
6/5/2002 Photo Taken by John Grump
DRILLING MW-14

PHOTO 6
6/6/2002 Photo taken by John Grump DRILLING MW-15A
APPENDIX A

Appendix B

Public and Private Well Logs

[redacted] 47 TT Cemetery Road

(12)

... of Wisconsin
Department of Natural Resources
Private Water Supply
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300-15 Rev. 2-79

OCT 16 1980

1. COUNTY: Marathon
CHECK (✓) ONE: ☒ Town ☐ Village ☐ City Name: Holton

2. LOCATION: ¼ Section or Gov't. Lot: SE; Section: 32; Township: 29N; Range: 12E
OR – Grid or Street No.: ; Street or Road Name:
AND – If available subdivision name, lot & block No.:

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓)
Rodger Wagner
ADDRESS: PO Box
POST OFFICE: Abbotsford ZIP CODE: Wis.

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain C.I.	Sanitary Bldg. Drain Other	Sanitary Bldg. Sewer C.I.	Sanitary Bldg. Sewer Other	Floor Drain Connected To: C.I. Sewer	Floor Drain Connected To: Other Sewer	Storm Bldg. Drain C.I.	Storm Bldg. Drain Other	Storm Bldg. C.I.	Storm Bldg. Other

Street Sewer San.	Street Sewer Storm	Other Sewers C.I.	Other Sewers Other	Foundation Drain Connected to: Sewer	Foundation Drain Connected to: Sewage Sump	Foundation Drain Connected to: Clearwater Dr.	Foundation Drain Connected to: Clearwater Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit: Seepage Pit / Seepage Bed / Seepage Trench	Manure Hopp Retention or Pnuematic Ta

Privy	Pet Waste Pit	Pit: Nonconforming Existing: Well / Pump / Tank	Subsurface Pumproom / Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit	Earthen Manure

Temporary Manure Stack or Platform	Watertight Liquid Manure Tank or Basin	Manure Pressure Pipe	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Manure Storage Basin: Concrete Floor Only / Concrete Floor and Partial Concrete Walls	Other (Describe)
						none

5. Well is intended to supply water for: family home

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	21			

7. CASING, LINER, CURBING AND SCREEN
Material, Weight, Specification

Dia. (in.)	Mfg. & Method of Assembly	From (ft.)	To (ft.)
6	ASTM A53 I. 45# plain end welded	Surface	21

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
drill mud	Surface	21

9. FORMATIONS

Kind	From (ft.)	To (ft.)
clay	Surface	3
gravely clay	3	14
sandy clay	14	17
gravel	17	21

10. TYPE OF DRILLING MACHINE USED
☐ Cable Tool ☒ Rotary-hammer w/drilling mud & air ☐ Jetting with ☐ Air ☐ Water
☐ Rotary-air w/drilling mud ☐ Rotary-hammer & air
☐ Rotary-w/drilling mud ☐ Reverse Rotary

Well construction completed on Oct 7 19 80

Well is terminated 12 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

11. MISCELLANEOUS DATA
Yield Test: 2 Hrs. at 25 GPM
Depth from surface to normal water level 3 Ft.
Depth of water level when pumping 10 Ft. Stabilized ☒ Yes ☐ No

Water sample sent to Madison laboratory on Oct 8 19 8[illegible]

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Ron Romnek Registered Well Driller

Business Name and Complete Mailing Address: Romnek Well Westfield 53964

BRUNNER WELL DRILLING
WELL AND PUMP CONTRACTORS
PHONE 748-5210 OR 740-8057
MEDFORD, WISCONSIN 54451

FEB. 15. 2000

TEST WELL LOGS

#1 NORTH OF EGGERICHT HOUSE
EAST SIDE OF TOWN ROAD

0-12 CLAY
12-13 MUDDY SAND
13-22 BLUE CLAY
22-23½ MUDDY SAND & GRAVEL
23½-25 CLAY
25-30 DECOMPOSED GRANITE

#2 ~~SOUTH OF 29 CLOSE TO PORKY CREEK~~

0-6 CLAY
6-10 MUDDY SAND & GRAVEL
10-16 CLAY
16-20 GRANITE

#3 NE CORNER OF EGGERICHT PROPERTY

0-18 CLAY
18-28 SANDY GREY CLAY
28-30 MUDDY SAND
30-38 BLUE CLAY
38-39 BROKEN GRANITE-HARD

#4 NORTH OF STREICERT HOUSE

0-6 CLAY
6-18 HARDPAN
18-19 GRANITE

ALL TEST WELLS CASING WAS REMOVED AND PROPERLY FILLED WITH BENTONITE CHIPS.

Well Construction Report For FJ571

WISCONSIN UNIQUE WELL NUMBER

(1)

Property Owner: CITY OF ABBOTSFORD | Telephone Number: 715-223-3444

Mailing Address: 203 E BIRCH

City: ABBOTSFORD | State: WI | Zip Code: 54405

County of Well Location: MARATHON | Co. Well Permit No. | Well Completion Date: October 21, 1992

37 Well Constructor (Business Name): WAYNE G BRUNNER | License #: 404

6 Address: 303 S 8TH

City: MEDFORD | State: WI | Zip Code: 54451

M (M=Munic. O=OTM N=NonCom P=Priv Z=Other X=Non-Pot. A=Anode L-Loop H=Drillhole)

2. Dates: Rc'd — Create 09/18/96 Last FM

1. Well Location Flag: T | T=Town C=City V=Village | Fire # (If avail.

of HOLTON

Grid or Street Address or Road Name and Number: Well #1

Subdivision Name | Lot # | Block #

Gov't Lot # ____ or NE 1/4 of SE 1/4 of

Section 32, T 29 N; R 2 E

3. Well Type Flag: 1 (1 = New 2 = Replacement 3 = Reconstruct) C

of previous unique well # ____ constructed in 19 ____

Reason for new, replaced or reconstructed well?

4. Well serves (Flag) # of homes and or MUNICIPAL

(Ex: barn, restaurant, church, school, industry, etc.)

High Capacity: Well? Y Property? Y

1 (1 = Drilled 2 = Driven Point 3 = Jetted 4 = Otl

5. Well located on highest point of property, consistent with the general layout and surroundings? Y (Flag)

Well located in floodplain? N

Distance in Feet From Well To Nearest:

1. Landfill
2. Building Overhang
3. Septic or Holding Tank (circle one)
4. Sewage Absorption Unit
5. Nonconforming Pit
6. Buried Home Heating Oil Tank
7. Buried Petroleum Tank
8. Shoreline/Swimming Pool
9. Downspout/Yard Hydrant
10. Privy
11. Foundation Drain to Clearwater
12. Foundation Drain to Sewer
13. Building Drain (1 = Cast Iron or Plastic 2 = Other)
14. Building Sewer (1=Gravity 2=Pressure; 1 = Cast Iron or Plastic 2 = Other)
15. Collector or Street Sewer
16. Clearwater Sump
17. Wastewater Sump
18. Paved Animal Barn Pen
19. Animal Yard or Shelter
20. Silo - Type
21. Barn Gutter
22. Manure Pipe (1=Gravity 2=Pressi; 1 = Cast Iron or Plastic 2 = Oth
23. Other Manure Storage
Other NR 112 Waste Source
24.

6. Drillhole Dimensions

Dia. (in.)	From (ft.)	To (ft.)
18.0	surface	23.0
12.0	23.0	38.0

Method of constructing upper enlarged drillhole only.

1. Rotary - Mud Circulation
2. Rotary - Air
3. Rotary - Foam
4. Reverse Rotary
X 5. Cable-tool Bit 12 in. dia.
X 6. Temp. Outer Casing 18 in. dia. Removed?
7. Other

7. Casing, Liner, Screen Material, Weight, Specification Manufacturer & Method of Assembly (Flag)

Dia. (in.)	Material, Weight, Specification, Manufacturer & Method of Assembly	From (ft.)	To (ft.)
18.0	STEEL 70 59 LB PER FT U S STEEL	surface	15.0
12.0	STEEL 49 56 LB PER FT CANADIAN WELDED	15.0	33.0

Dia. (in.)	screen type, material & slot size	From	To
12.0	STAINLESS STEEL 18 SLOT	33.0	38.0

8. Grout or Other Sealing Material (Flag)

Method TREMIE PIPE PLUGGED | From (ft.) | To (ft.) | # Sacks Cement

Kind of Sealing Material

DNR USE ONLY	9. Geology Type, Caving/Noncaving, Color, Hardness, Etc. (Flag)	From (ft.)
CG	CLAY WITH STONES	Surface
HC	BLUE CLAY WITH STONES	20.0
YU	DIRTY SAND W GRAVEL	24.0
CY	CLEAN SAND W GRAVEL	33.0

10. Static Water Level (Flag): 6.0 ft. B ground surface (A=Above B=Below)

11. Pump Test (Flag): Pumping Level 27.0 ft. below ground surface; Pumping at 2.9 GPM M 49.50 hrs

12. Well Is: 36 in. A Grade (Flag) (A=Above B=Belo

Developed? Y
Disinfected? Y
Capped? Y
Depth (feet)

13. Did you permanently seal all unused, noncomplying, or unsafe wells? (Flag)

If no, explain

14. Signature of Point Driver or Licensed Supervisory Driller Date Sign

Appendix C

Boring Logs

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Other

SOIL BORING LOG INFORMATION
Form 4400-122 7-91

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
WDNR PCE INVESTIGATION;		B-4A

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Maxim Technologies, Inc./Eric Anderson	6/6/02	6/6/02	HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
— — —	— — — — — — — —	B-4A	1394.1 Feet	1406.1 Feet	8" Inches

Boring Location
State Plane N, E S/C/N
SW 1/4 of NE 1/4 of Section 31 T 29N N,R 2E
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
☐ N ☐ E
Feet ☐ S Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
MARATHON	37	ABBOTSFORD

Sample Number	Sample Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
				TOPSOIL (18")										
1	20	10	3.5	SILTY CLAY, trace sand and gravel, brown, moist, rather stiff to medium (CL-ML)	CL ML				10					
2	24	7							7					
3	8	13	7.0						13					
4	5	13							13					
5	4	7	10.5						7					
6	24	3		SILTY CLAY, trace sand and gravel, reddish brown, moist to wet, very soft (CL-ML)	CL ML CL				3					
7	24	Push	14.0											
8	24	13		SILTY CLAY, brown, wet (CL-ML)	ML CL				13					
9	24	9	17.5	SILTY CLAY WITH SAND, brown, wet, rather stiff (CL-ML)	ML				9					
			21.0											
10	24	28	24.5	SILTY CLAY, brown and gray mottled, wet, stiff (CL-ML)	CL ML				28					
11	24	36	28.0	SILTY CLAY, trace sand and gravel, gray, wet, very stiff (CL-ML)	CL ML				36					
12	16	33							33					
			31.5											
13	8	50/.2	35.0	SILTY CLAY, reddish brown, wet, very stiff (CL-ML)	CL ML									
				End of Boring @ 35' on Weathered Sandstone										

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

Signature	Firm
	Maxim Technologies, Inc. 4649 Joles Ave. Chippewa Falls, WI. Tel: 715-832-0282, Fax: 715-832-0541

This form is authorized by Chapters 144, 147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than $10 nor more than $5,000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Other

SOIL BORING LOG INFORMATION
Form 4400-122 7-91

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
WDNR PCE INVESTIGATION;		MW-14

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Maxim Technologies, Inc./Eric Anderson	6/5/02	6/5/02	HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
— — —	— — — — — —	MW-14	1391.2 Feet	1401.7 Feet	8" Inches

Boring Location
State Plane N, E S/C/N
SW 1/4 of NE 1/4 of Section 31 T 29N N,R 2E
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
MARATHON	37	ABBOTSFORD

Sample Number	Sample Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
				BLIND DRILL TO 6'										
			3.5											
1	20		7.0	SILTY CLAY WITH SAND, brown, moist to wet (CL-ML)	CL ML									
2	18													
			10.5	BLIND DRILL TO 18'										
			14.0											
			17.5	End of Boring @ 18'										

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

Signature	Firm
	Maxim Technologies, Inc. 4649 Joles Ave. Chippewa Falls, WI. Tel: 715-832-0282, Fax: 715-832-0541

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State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Other

SOIL BORING LOG INFORMATION
Form 4400-122 7-91

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
WDNR PCE INVESTIGATION;		MW-14A

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Maxim Technologies, Inc./Eric Anderson	6/5/02	6/5/02	HSA

DNR Facility Well No	WI Unique Well No	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-14A	1392.2 Feet	1401.7 Feet	8" Inches

Boring Location
State Plane N, E S/C/N
SW 1/4 of NE 1/4 of Section 31 T 29N N.R 2E
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
☐ N ☐ E
Feet ☐ S Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
MARATHON	37	ABBOTSFORD

Sample Number	Sample Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
				TOPSOIL (48")										
1	3	18	3.5						18					
2	24	13		SILTY CLAY, trace sand and gravel, brown, moist, rather stiff to stiff (CL-ML)	CL ML				13					
3	14	18	7.0						18					
4	14	11		8" LAYER OF SAND @ 7.2'	CL ML				11					
5	16	12	10.5	SILTY CLAY, a little sand and gravel, layers of sand, brown, moist, rather stiff (CL-ML)					12					
6	16	23			SP				23					
7	24	Push	14.0	SAND WITH LAYERS OF SILTY CLAY, fine to coarse grained, brown, moist, dense (SP)					20					
8	24	17							17					
9	12	14	17.5	SILTY CLAY, trace sand and gravel, gray and brown, moist to wet, rather stiff to stiff (CL-ML)	CL ML				14					
			21.0											
10	18	26	24.5						26					
			28.0											
11	20	26							26					
			31.5											
12	13	68/.6	35.0											
				Auger Refusal @ 36' on Weathered Granite										

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

Signature	Firm
	Maxim Technologies, Inc. 4649 Joles Ave. Chippewa Falls, WI. Tel: 715-832-0282, Fax: 715-832-0541

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State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Other

SOIL BORING LOG INFORMATION
Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
WDNR PCE INVESTIGATION;		MW-15

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Maxim Technologies, Inc./Eric Anderson	6/6/02	6/6/02	HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
— —	— — — — — —	MW-15	1380.1 Feet	1390.6 Feet	8" Inches

Boring Location
State Plane N, E S/C/N
SW 1/4 of NE 1/4 of Section 31 T 29N N,R 2E
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
☐ N ☐ E
Feet ☐ S Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
MARATHON	37	ABBOTSFORD

Sample Number	Sample Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
				TOPSOIL (18")										
1	24	Push	3.5	SILTY CLAY WITH GRAVEL AND SAND, brown, moist (CL-ML)	CL ML									
2	24	Push	7.0	SILTY CLAY, trace gravel and sand, brown, moist (CL-ML)	CL									
3	24	4			ML									
4	24	5	10.5	SILTY CLAY, trace sand and gravel, brown, wet, soft to stiff (CL-ML)	CL ML									
5	24	18	14.0		ML									
				End of Boring @ 17'										

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

Signature	Firm
	Maxim Technologies, Inc. 4649 Joles Ave. Chippewa Falls, WI. Tel: 715-832-0282, Fax: 715-832-0541

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State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Other

SOIL BORING LOG INFORMATION
Form 4400-122 7-91

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
WDNR PCE INVESTIGATION;		MW-15A

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Maxim Technologies, Inc./Eric Anderson	6/6/02	6/6/02	HSA

DNR Facility Well No	WI Unique Well No	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
— — —	— — — — — — — — — —	MW-15A	1383.6 Feet	1390.6 Feet	8" Inches

Boring Location
State Plane N, E S/C/N Lat ° ' "
SW 1/4 of NE 1/4 of Section 31 T 29N N,R 2E Long ° ' "

Local Grid Location (If applicable)
☐ N ☐ E
Feet ☐ S Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
MARATHON	37	ABBOTSFORD

Sample Number	Sample Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
			3.5	BLIND DRILL TO 19'										
			7.0											
			10.5											
			14.0											
			17.5											
1	24	36	21.0	SILTY CLAY, brown, wet, very stiff (CL-ML)	CL ML				36					
2	0	34	24.5						34					
3	8	50/.5	28.0											
				End of Boring @ 29'										

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

Signature

Firm Maxim Technologies, Inc.
4649 Joles Ave. Chippewa Falls, WI.
Tel: 715-832-0282, Fax: 715-832-0541

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State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Other

SOIL BORING LOG INFORMATION
Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
WDNR PCE INVESTIGATION;		MW-16

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Maxim Technologies, Inc./Eric Anderson	6/3/02	6/3/02	HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
— — —	— — — — — — — — — —	MW-16	1391.9 Feet	1403.9 Feet	8" Inches

Boring Location
State Plane N, E S/C/N
SW 1/4 of SW 1/4 of Section 31 T 29N N,R 2E
Lat ° ' "
Long ° ' "
Local Grid Location (If applicable)
☐ N ☐ E
Feet ☐ S Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
MARATHON	37	ABBOTSFORD

Sample Number	Sample Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
				TOPSOIL (12")										
1	18	9	2	SILTY CLAY, trace sand and gravel, brown and gray mottled, moist, rather stiff (CL-ML)	CL ML				9					
2	12	8	4						8					
				LAYER OF GRAVEL @ 5'	CL									
3	20	12	6	SILTY CLAY WITH SAND, trace gravel, reddish brown, moist to wet, rather stiff (CL-ML)	ML CL ML				12					
4	8	19	8	SILTY CLAY, trace sand and gravel, dark brown, wet, rather stiff (CL-ML)	ML				19					
5	24	12	10	SILT, brown, wet, dense (ML)	CL ML				12					
6	24	35	12	SILTY CLAY, trace sand and gravel, brown, wet, rather stiff to very stiff (CL-ML)					35					
7	24	31	14	LAYER OF SAND @ 11.5'	CL ML				31					
8	24	14	16	SILTY CLAY, trace sand and gravel, brown, wet, stiff to rather stiff (CL-ML)					14					
			18											
				End of Boring @ 19'										

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

Signature	Firm
	Maxim Technologies, Inc. 4649 Joles Ave. Chippewa Falls, WI. Tel: 715-832-0282, Fax: 715-832-0541

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State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Other

SOIL BORING LOG INFORMATION
Form 4400-122 7-91

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
WDNR PCE INVESTIGATION;		MW-16A

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Maxim Technologies, Inc./Eric Anderson	6/4/02	6/4/02	HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
— — —	— — — — — — — —	MW-16A	1396.7 Feet	1403.7 Feet	8" Inches

Boring Location
State Plane N, E S/C/N
SW 1/4 of SW 1/4 of Section 31 T 29N N,R 2E
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
☐ N ☐ E
Feet ☐ S Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
MARATHON	37	ABBOTSFORD

Sample Number	Sample Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
			3.5	BLIND DRILL TO 10'										
			7.0											
1	24	13	10.5	SILTY CLAY, trace sand and gravel, brown, wet, rather stiff (CL-ML)	CL ML				13					
			14.0											
			17.5											
2	3	100/.5		SANDSTONE, whitish brown, moist to waterbearing, very dense										
3	2	50/.3	21.0											
4	5	100/.8	24.5											
			28.0											
5	2	75/.2	31.5											
6	10	75/.4	35.0											
			38.5											
7	0			Auger Refusal @ 39'										

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

Signature	Firm
	Maxim Technologies, Inc. 4649 Joles Ave. Chippewa Falls, WI. Tel: 715-832-0282, Fax: 715-832-0541

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Appendix D

Monitoring Well Construction Reports

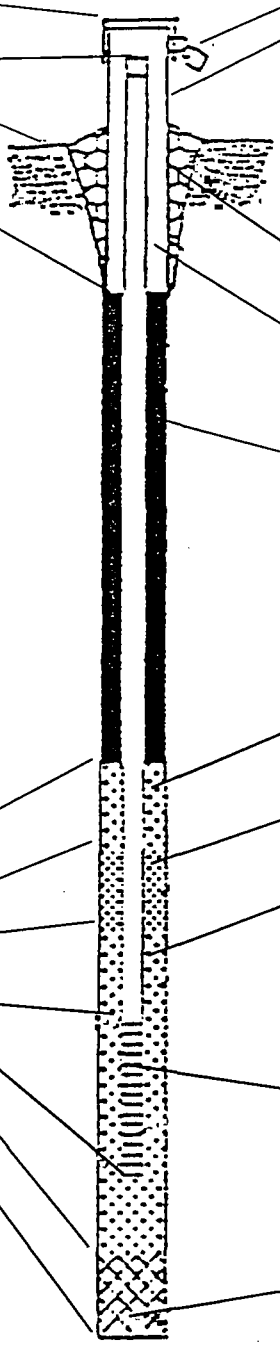
State of Wisconsin
Department of Natural Resources

Route to: Watershed/wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ ___

MONITORING WELL CONSTRUCTION

Similar to Form 4400-113A Rev 7-98

Facility/Project Name WDNR PCE Investigation	Local Grid Location of Well ☐ N ☐ E. ___ ft. ☐ S ___ ft. ☐ W.		Well Name B-4A
Facility License, Permit or Monitoring Number	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐		Wis. Unique Well No. / DNR Well ID No.
Facility ID	Lat. __ ° __ ' __ " Long. __ ° __ ' __ " or St. Plane _____ ft. N. _____ ft. E. S/C/N		Date Well Installed 06/06/02 m m d d y y y y
Type of Well Well Code ____/	Section Location of Waste/Source ■ E. ☐ W. SW 1/4 of NE 1/4 of Sec. 31, T. 29 N, R. 2		Well Installed By: Name (first, last) and Firm Eric Anderson Maxim Technologies, Inc.
Distance Well is From Waste/ Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number	



A. Protective pipe, top elevation ____.__ ft. MSL

B. Well casing, top elevation 1408.76 ft. MSL

C. Land surface elevation 1406.05 ft. MSL

D. Surface seal, bottom ____.__ ft. MSL or 0.0 ft.

E. Bentonite seal, top ____.__ ft. MSL or 25.0 ft.

F. Fine sand, top ____.__ ft. MSL or 27.0 ft.

G. Filter pack, top ____.__ ft. MSL or 28.0 ft.

H. Screen joint, top ____.__ ft. MSL or 30.0 ft.

I. Well bottom ____.__ ft. MSL or 35.0 ft.

J. Filter pack, bottom ____.__ ft. MSL or 35.0 ft.

K. Borehole, bottom ____.__ ft. MSL or 35.0 ft.

L. Borehole, diameter 8.0 in.

M. O.D. well casing 2.25 in.

N. I.D. well casing 2.00 in.

1. Cap and lock? ■ Yes ☐ No

2. Protective cover pipe:
   a. Inside diameter: 4.0 in.
   b. Length: 7.0 ft.
   c. Material: Steel ■ 04 / Other ☐ _____
   d. Additional protection? ■ Yes ☐ No
   If yes, describe: 3 steel bumper posts

3. Surface seal: Bentonite ■ 30 / Concrete ☐ 01 / Other ☐ _____

4. Material between well casing and protective pipe: Bentonite ☐ 30 / 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. 400 lbs Ft³ volume added for any of the above
   f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☐ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
   b. ☐1/4 in. ☐3/8 in. ■1/2 in. Bentonite chips ☐ 32
   c. Pellets Other ■

7. Fine sand material: Mfr, product name & mesh size
   a. Red Flint 45-55mm
   b. Volume added 25 lbs ft³

8. Filter pack material: Mfr, product name & mesh size
   a. Red Flint #30
   b. Volume added 100 lbs ft³

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 Diedrich
    c. Slot size: 0.10 in.
    d. Slotted length: 4.5 ft.

11. Backfill material (below filter pack): None ■ 14 / Other ☐ _____

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

13. Sieve analysis performed? ☐ Yes ■ No

14. Drilling method used: Rotary ☐ 50 / Hollow Stem Auger ■ 41 / 4¼ / 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, if required):

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

Signature	Firm
E.P.C.	Maxim Technologies, Inc. (Maxim)

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a 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 these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Watershed/wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ ___

MONITORING WELL CONSTRUCTION

Similar to Form 4400-113A Rev 7-98

Facility/Project Name WDNR PCE Investigation	Local Grid Location of Well ☐ N ___ ft. ☐ S ___ ft. ☐ E. ☐ W.	Well Name MW-14	
Facility License, Permit or Monitoring Number	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐	Wis. Unique Well No.	DNR Well ID No.
Facility ID	Lat. __ ° __ ' __ " Long. __ ° __ ' __ " or St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed 06/05/02 m m d d y y y y	
Type of Well Well Code ____/	Section Location of Waste/Source ■ E. ☐ W. SW 1/4 of NE 1/4 of Sec. 31, T. 29 N, R. 2	Well Installed By: Name (first, last) and Firm Eric Anderson Maxim Technologies, Inc.	
Distance Well is From Waste/ Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number	

A. Protective pipe, top elevation ____.__ ft. MSL

B. Well casing, top elevation 1404.54 ft. MSL

C. Land surface elevation 1401.74 ft. MSL

D. Surface seal, bottom ____.__ ft. MSL or _0.0 ft.

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

13. Sieve analysis performed? ☐ Yes ■ No

14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger ■ 41
4¼ 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, if required):

E. Bentonite seal, top ____.__ ft. MSL or __0.0 ft.

F. Fine sand, top ____.__ ft. MSL or __5.0 ft.

G. Filter pack, top ____.__ ft. MSL or __6.0 ft.

H. Screen joint, top ____.__ ft. MSL or __8.0 ft.

I. Well bottom ____.__ ft. MSL or _18.0 ft.

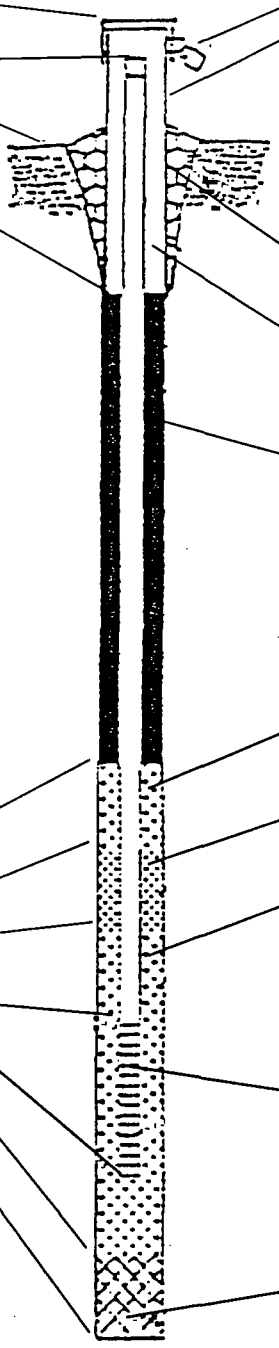
J. Filter pack, bottom ____.__ ft. MSL or _18.0 ft.

K. Borehole, bottom ____.__ ft. MSL or _18.0 ft.

L. Borehole, diameter _8.0 in.

M. O.D. well casing _2.25 in.

N. I.D. well casing _2.00 in.



1. Cap and lock? ■ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: _4.0 in.
b. Length: _7.0 ft.
c. Material: Steel ■ 04
Other ☐
d. Additional protection? ■ Yes ☐ No
If yes, describe: 3 steel bumper posts
3. Surface seal: Bentonite ☐ 30
Concrete ■ 01
Other ☐
4. Material between well casing and protective pipe:
Bentonite ☐ 30
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. 75 lbs Ft³ volume added for any of the above
f. How installed Tremie ☐ 01
Tremie pumped ☐ 02
Gravity ☐ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ■ 3/8 in. ☐ 1/2 in. Bentonite chips ■ 32
c. _____ Other ☐
7. Fine sand material: Mfr, product name & mesh size
a. Red Flint 45-55mm
b. Volume added 50 lbs ft³
8. Filter pack material: Mfr, product name & mesh size
a. Red Flint #30
b. Volume added 200 lbs ft³
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 Diedrich
c. Slot size: 0.10 in.
d. Slotted length: _9.5 ft.
11. Backfill material (below filter pack): None ■ 14
Other ☐

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

Signature	Firm
	Maxim Technologies, Inc. (Maxim)

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a 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 these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

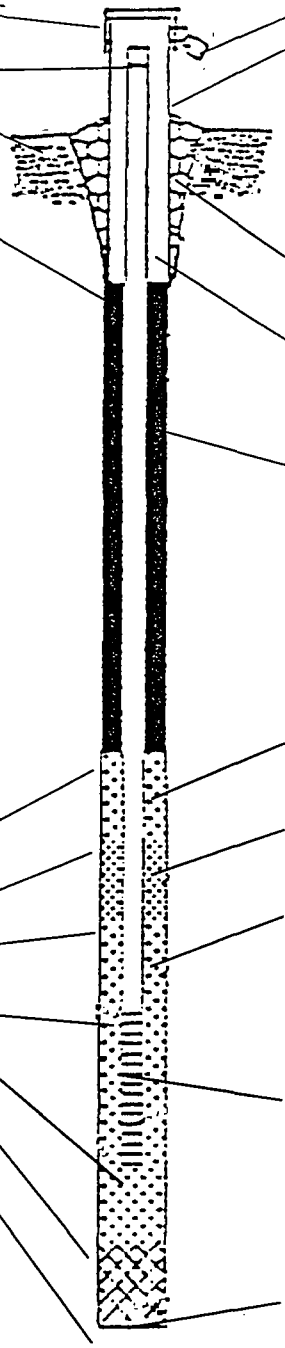
State of Wisconsin
Department of Natural Resources

Route to: Watershed/wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ ____

MONITORING WELL CONSTRUCTION

Similar to Form 4400-113A Rev 7-98

Facility/Project Name WDNR PCE Investigation	Local Grid Location of Well ☐ N ☐ E. ___ ft. ☐ S ___ ft. ☐ W.	Well Name MW-14A	
Facility License, Permit or Monitoring Number	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐	Wis. Unique Well No.	DNR Well ID No.
Facility ID	Lat. __° __' __" Long. __° __' __" or St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed 06/05/02 m m d d y y y y	
Type of Well Well Code ____/	Section Location of Waste/Source ■ E. ☐ W. SW1/4 of NE1/4 of Sec. 31, T. 29 N, R. 2	Well Installed By: Name (first, last) and Firm Eric Anderson Maxim Technologies, Inc.	
Distance Well is From Waste/ Source _____ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number	



A. Protective pipe, top elevation ____.__ ft. MSL

B. Well casing, top elevation 1404.31 ft. MSL

C. Land surface elevation 1401.70 ft. MSL

D. Surface seal, bottom ____.__ ft. MSL or _0.0 ft.

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

13. Sieve analysis performed? ☐ Yes ■ No

14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger ■ 41
4¼ 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, if required):

E. Bentonite seal, top ____.__ ft. MSL or _26.5 ft.

F. Fine sand, top ____.__ ft. MSL or _28.5 ft.

G. Filter pack, top ____.__ ft. MSL or _29.0 ft.

H. Screen joint, top ____.__ ft. MSL or _31.0 ft.

I. Well bottom ____.__ ft. MSL or _36.0 ft.

J. Filter pack, bottom ____.__ ft. MSL or _36.0 ft.

K. Borehole, bottom ____.__ ft. MSL or _36.0 ft.

L. Borehole, diameter _8.0 in.

M. O.D. well casing _2.25 in.

N. I.D. well casing _2.00 in.

1. Cap and lock? ■ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: _4.0 in.
b. Length: _7.0 ft.
c. Material: Steel ■ 04
Other ☐

d. Additional protection? ■ Yes ☐ No
If yes, describe: 3 steel bumper posts

3. Surface seal: Bentonite ☐ 30
Concrete ■ 01
Other ☐

4. Material between well casing and protective pipe:
Bentonite ☐ 30
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. 400 lbs Ft³ volume added for any of the above
f. How installed Tremie ☐ 01
Tremie pumped ☐ 02
Gravity ☐ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ☐3/8 in. ■1/2 in. Bentonite chips ☐ 32
c. Pellets Other ■

7. Fine sand material: Mfr, product name & mesh size
a.
b. Volume added 50 lbs ft³

8. Filter pack material: Mfr, product name & mesh size
a. Red Flint #30
b. Volume added 100 lbs ft³

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 Diedrich
c. Slot size: 0.10 in.
d. Slotted length: _4.5 ft.

11. Backfill material (below filter pack): None ■ 14
Other ☐

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

Signature	Firm
EPCC	Maxim Technologies, Inc. (Maxim)

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a 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 these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Watershed/wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ ____

MONITORING WELL CONSTRUCTION

Similar to Form 4400-113A Rev 7-98

Facility/Project Name WDNR PCE Investigation	Local Grid Location of Well ☐ N ___ ft. ☐ S ___ ft. ☐ E. ☐ W.	Well Name MW-15	
Facility License, Permit or Monitoring Number	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐	Wis. Unique Well No.	DNR Well ID No.
Facility ID	Lat. __ ° __ ' __ " Long. __ ° __ ' __ " or St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed 06/06/02 m m d d y y y y	
Type of Well Well Code ____/	Section Location of Waste/Source ■ E. ☐ W. SW1/4 of NE1/4 of Sec. 31, T. 29 N, R. 2	Well Installed By: Name (first, last) and Firm Eric Anderson Maxim Technologies, Inc.	
Distance Well is From Waste/ Source _____ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number	

A. Protective pipe, top elevation _____.__ ft. MSL

B. Well casing, top elevation 1393.17 ft. MSL

C. Land surface elevation 1390.57 ft. MSL

D. Surface seal, bottom _____.__ ft. MSL or __0.0 ft.

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

13. Sieve analysis performed? ☐ Yes ■ No

14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger ■ 41
4 ¼ 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, if required):

E. Bentonite seal, top _____.__ ft. MSL or __0.0 ft.

F. Fine sand, top _____.__ ft. MSL or __5.0 ft.

G. Filter pack, top _____.__ ft. MSL or __6.0 ft.

H. Screen joint, top _____.__ ft. MSL or __7.0 ft.

I. Well bottom _____.__ ft. MSL or _17.0 ft.

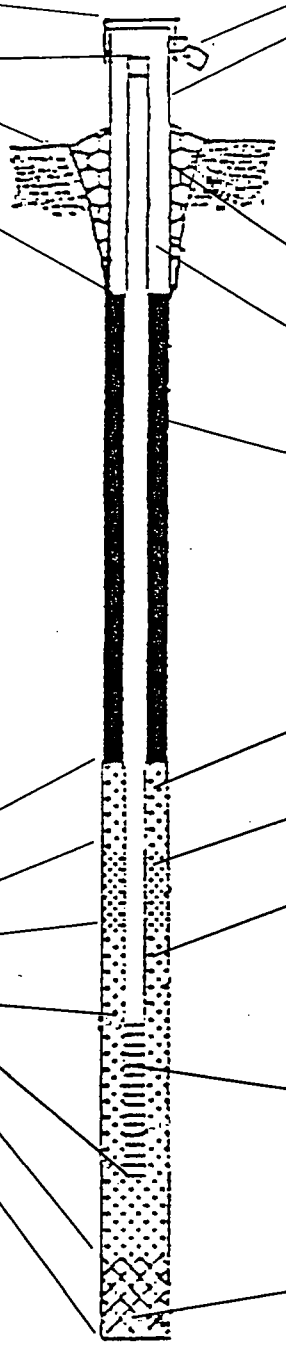
J. Filter pack, bottom _____.__ ft. MSL or _17.0 ft.

K. Borehole, bottom _____.__ ft. MSL or _17.0 ft.

L. Borehole, diameter _8.0 in.

M. O.D. well casing _2.25 in.

N. I.D. well casing _2.00 in.



1. Cap and lock? ■ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: _4.0 in.
b. Length: _7.0 ft.
c. Material: Steel ■ 04
_____ Other ☐
d. Additional protection? ■ Yes ☐ No
If yes, describe: 3 steel bumper posts
3. Surface seal: Bentonite ☐ 30
Concrete ■ 01
_____ Other ☐
4. Material between well casing and protective pipe:
Bentonite ☐ 30
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. 100 lbs Ft³ volume added for any of the above
f. How installed Tremie ☐ 01
Tremie pumped ☐ 02
Gravity ☐ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ■3/8 in. ☐1/2 in. Bentonite chips ■ 32
c. _____ Other ☐
7. Fine sand material: Mfr, product name & mesh size
a. Red Flint 45-55mm
b. Volume added 50 lbs ft³
8. Filter pack material: Mfr, product name & mesh size
a. Red Flint #30
b. Volume added 250 lbs ft³
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 Diedrich
c. Slot size: 0.10 in.
d. Slotted length: _9.5 ft.
11. Backfill material (below filter pack): None ■ 14
_____ Other ☐

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

Signature	Firm
Ed Cl	Maxim Technologies, Inc. (Maxim)

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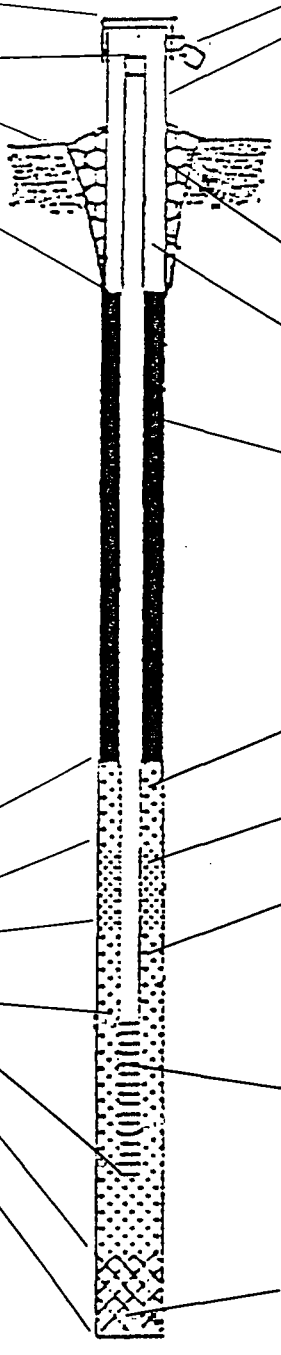
State of Wisconsin
Department of Natural Resources

Route to: Watershed/wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ ___

MONITORING WELL CONSTRUCTION

Similar to Form 4400-113A Rev 7-98

Facility/Project Name WDNR PCE Investigation	Local Grid Location of Well ☐ N ___ ft. ☐ S ___ ft. ☐ E. ☐ W.	Well Name MW-15A	
Facility License, Permit or Monitoring Number	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐	Wis. Unique Well No.	DNR Well ID No.
Facility ID	Lat. __ ° __ ' __ " Long. __ ° __ ' __ " or St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed 06/06/02 m m d d y y y y	
Type of Well Well Code ____/	Section Location of Waste/Source ■ E. ☐ W. SW 1/4 of NE 1/4 of Sec. 31, T. 29 N, R. 2	Well Installed By: Name (first, last) and Firm Eric Anderson Maxim Technologies, Inc.	
Distance Well is From Waste/ Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number	



A. Protective pipe, top elevation ____.__ ft. MSL

B. Well casing, top elevation 1393.83 ft. MSL

C. Land surface elevation 1390.61 ft. MSL

D. Surface seal, bottom ____.__ ft. MSL or _0.0 ft.

E. Bentonite seal, top ____.__ ft. MSL or _20.0 ft.

F. Fine sand, top ____.__ ft. MSL or _22.0 ft.

G. Filter pack, top ____.__ ft. MSL or _23.0 ft.

H. Screen joint, top ____.__ ft. MSL or _25.0 ft.

I. Well bottom ____.__ ft. MSL or _30.0 ft.

J. Filter pack, bottom ____.__ ft. MSL or _30.0 ft.

K. Borehole, bottom ____.__ ft. MSL or _30.0 ft.

L. Borehole, diameter _8.0 in.

M. O.D. well casing _2.25 in.

N. I.D. well casing _2.00 in.

1. Cap and lock? ■ Yes ☐ No

2. Protective cover pipe:
   a. Inside diameter: _4.0 in.
   b. Length: _7.0 ft.
   c. Material: Steel ■ 04 / Other ☐ _____
   d. Additional protection? ■ Yes ☐ No
   If yes, describe: 3 steel bumper posts

3. Surface seal: Bentonite ■ 30 / Concrete ☐ 01 / Other ☐ _____

4. Material between well casing and protective pipe: Bentonite ☐ 30 / 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. 400 lbs Ft³ volume added for any of the above
   f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☐ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
   b. ☐1/4 in. ☐3/8 in. ■1/2 in. Bentonite chips ☐ 32
   c. Pellets Other ■

7. Fine sand material: Mfr, product name & mesh size
   a. Red Flint 45-55mm
   b. Volume added 25 lbs ft³

8. Filter pack material: Mfr, product name & mesh size
   a. Red Flint #30
   b. Volume added 100 lbs ft³

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 Diedrich
    c. Slot size: 0.10 in.
    d. Slotted length: _4.5 ft.

11. Backfill material (below filter pack): None ■ 14 / Other ☐ _____

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

13. Sieve analysis performed? ☐ Yes ■ No

14. Drilling method used: Rotary ☐ 50 / Hollow Stem Auger ■ 41 / 4¼ / 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, if required):

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

Signature	Firm
	Maxim Technologies, Inc. (Maxim)

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a 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 these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

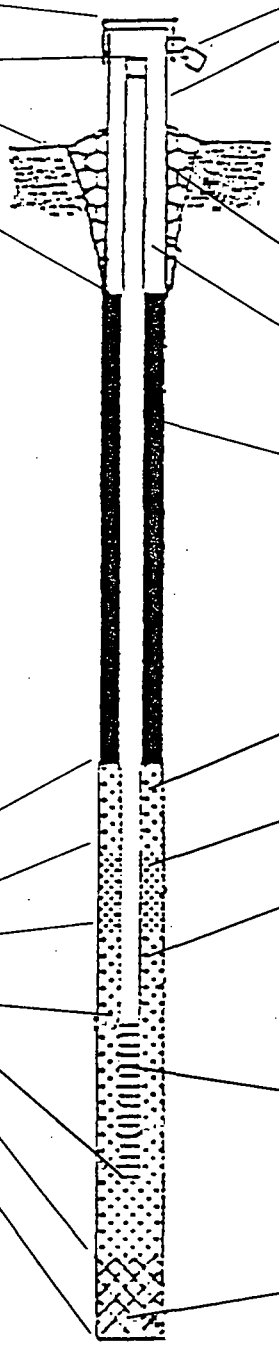
State of Wisconsin
Department of Natural Resources

Route to: Watershed/wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ ___

MONITORING WELL CONSTRUCTION

Similar to Form 4400-113A Rev 7-98

Facility/Project Name WDNR PCE Investigation	Local Grid Location of Well ☐ N ___ ft. ☐ E. ___ ft. ☐ S ___ ft. ☐ W.	Well Name MW-16	
Facility License, Permit or Monitoring Number	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐	Wis. Unique Well No.	DNR Well ID No.
Facility ID	Lat. __° __' __" Long. __° __' __" or St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed 06/03/02 m m d d y y y y	
Type of Well Well Code ____/	Section Location of Waste/Source ■ E. ☐ W. SW1/4 of SW1/4 of Sec. 31, T. 29 N, R. 2	Well Installed By: Name (first, last) and Firm Eric Anderson Maxim Technologies, Inc.	
Distance Well is From Waste/ Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number	



A. Protective pipe, top elevation ____.__ ft. MSL

B. Well casing, top elevation 1403.55 ft. MSL

C. Land surface elevation 1403.85 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 performed? ☐ Yes ■ No

14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger ■ 41
4 ¼ 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, if required):

E. Bentonite seal, top ____.__ ft. MSL or __1.0 ft.

F. Fine sand, top ____.__ ft. MSL or __6.5 ft.

G. Filter pack, top ____.__ ft. MSL or __7.0 ft.

H. Screen joint, top ____.__ ft. MSL or _9.0 ft.

I. Well bottom ____.__ ft. MSL or _19.0 ft.

J. Filter pack, bottom ____.__ ft. MSL or _19.0 ft.

K. Borehole, bottom ____.__ ft. MSL or _19.0 ft.

L. Borehole, diameter _8.0 in.

M. O.D. well casing _2.25 in.

N. I.D. well casing _2.00 in.

1. Cap and lock? ■ Yes ☐ No

2. Protective cover pipe: Flushmount
a. Inside diameter: _9.0 in.
b. Length: _1.0 ft.
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
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. 100 lbs Ft³ volume added for any of the above
f. How installed Tremie ☐ 01
Tremie pumped ☐ 02
Gravity ☐ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ■3/8 in. ☐1/2 in. Bentonite chips ■ 32
c. _____ Other ☐

7. Fine sand material: Mfr, product name & mesh size
a. Red Flint 45-55mm
b. Volume added 25 lbs ft³

8. Filter pack material: Mfr, product name & mesh size
a. Red Flint #30
b. Volume added 250 lbs ft³

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 Diedrich
c. Slot size: 0.10 in.
d. Slotted length: _9.5 ft.

11. Backfill material (below filter pack): None ■ 14
_____ Other ☐

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

Signature	Firm
	Maxim Technologies, Inc. (Maxim)

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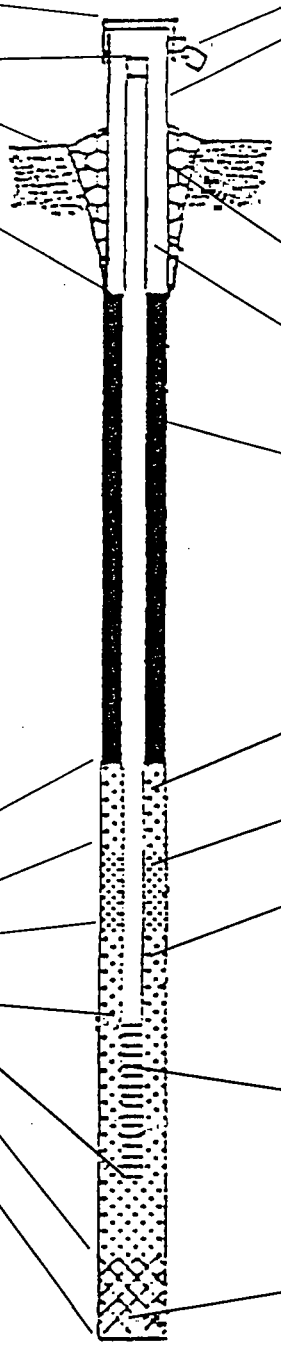
State of Wisconsin
Department of Natural Resources

Route to: Watershed/wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ ___

MONITORING WELL CONSTRUCTION

Similar to Form 4400-113A Rev 7-98

Facility/Project Name WDNR PCE Investigation	Local Grid Location of Well ☐ N ___ ft. ☐ S ___ ft. ☐ E. ☐ W.	Well Name MW-16A	
Facility License, Permit or Monitoring Number	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐	Wis. Unique Well No.	DNR Well ID No.
Facility ID	Lat. ° ' " Long. ° ' " or St. Plane ____ ft. N. ____ ft. E. S/C/N	Date Well Installed 06/04/02 m m d d y y y y	
Type of Well Well Code ____/	Section Location of Waste/Source ■ E. ☐ W. SW1/4 of SW1/4 of Sec. 31, T. 29 N, R. 2	Well Installed By: Name (first, last) and Firm Eric Anderson Maxim Technologies, Inc.	
Distance Well is From Waste/ Source ____ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number	



A. Protective pipe, top elevation ____.__ ft. MSL

B. Well casing, top elevation 1403.32 ft. MSL

C. Land surface elevation 1403.66 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 performed? ☐ Yes ■ No

14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger ■ 41
4¼ 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, if required):

E. Bentonite seal, top ____.__ ft. MSL or __0.0 ft.

F. Fine sand, top ____.__ ft. MSL or _31.5 ft.

G. Filter pack, top ____.__ ft. MSL or _32.0 ft.

H. Screen joint, top ____.__ ft. MSL or _34.0 ft.

I. Well bottom ____.__ ft. MSL or _39.0 ft.

J. Filter pack, bottom ____.__ ft. MSL or _39.0 ft.

K. Borehole, bottom ____.__ ft. MSL or _39.0 ft.

L. Borehole, diameter _8.0 in.

M. O.D. well casing _2.25 in.

N. I.D. well casing _2.00 in.

1. Cap and lock? ■ Yes ☐ No

2. Protective cover pipe: Flushmount
a. Inside diameter: _9.0 in.
b. Length: _1.0 ft.
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
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. 500 lbs Ft³ volume added for any of the above
f. How installed Tremie ☐ 01
Tremie pumped ☐ 02
Gravity ☐ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ☐3/8 in. ■1/2 in. Bentonite chips ☐ 32
c. Pellets Other ■

7. Fine sand material: Mfr, product name & mesh size
a.
b. Volume added 25 lbs ft³

8. Filter pack material: Mfr, product name & mesh size
a. Red Flint #30
b. Volume added 100 lbs ft³

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 Diedrich
c. Slot size: 0.10 in.
d. Slotted length: _4.5 ft.

11. Backfill material (below filter pack): None ■ 14
Other ☐

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

Signature	Firm
	Maxim Technologies, Inc. (Maxim)

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a 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 these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Appendix E

Monitoring Well Development Forms

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	County Name	Well Name
WDNR-PCE INV.	Marathon	MW-16A

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID 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 ___70 min.

4. Depth of well (from top of well casing) __38.8 ft.

5. Inside diameter of well ___.2 in.

6. Volume of water in filter pack and well casing ____.__ gal.

7. Volume of water removed from well __17.0 gal.

8. Volume of water added (if any) ____.0 gal.

9. Source of water added NONE

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.	__7.03 ft	36.00 ft
Date b.	06/11/2002 mm dd yyyy	06/11/2002 mm dd yyyy
Time c.	8:50 ■ A.M. ☐ P.M.	10:00 ■ A.M. ☐ P.M.
12. Sediment in well bottom	6.0 inches	___.0 inches
13. Water Clarity	Clear ☐ 10 Turbid ■ 15 (Describe)	Clear ■ 20 Turbid ☐ 25 (Describe)
	Silty Brown	Light brown

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	NA__.__ mg/L	____.__ mg/L
15. COD	NA__.__ mg/L	____.__ mg/L

16. Additional comments on development:

Developed well to bottom. No water in last bail. Slow recovery.

17. Well developed by: Name (first, last) and Firm

First Name: Eric Last Name:Oleson

Firm Maxim Technologies, Inc.®

Name and Address of Facility Contact/Owner/Responsible Party

First Name:_____ Last Name:_____

Facility/Firm:_____

Street:_____

City/State/Zip:_____

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

Signature:

Print Name: _____

Firm: Maxim Technologies, Inc.®

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	County Name	Well Name
WDNR-PCE INV.	Marathon	MW-16

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID 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 __ __ 5 0 min.

4. Depth of well (from top of well casing) __ 1 9 . 3 ft.

5. Inside diameter of well __ __ . __ 2 in.

6. Volume of water in filter pack and well casing __ __ __ . __ gal.

7. Volume of water removed from well __ 1 8 . 0 gal.

8. Volume of water added (if any) __ __ __ . 0 gal.

9. Source of water added NONE

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.	__ __ 7 . 6 6 ft	__ 1 8 . 8 0 ft
Date b.	0 6 / 1 1 / 2 0 0 2 (mm dd yyyy)	0 6 / 1 1 / 2 0 0 2 (mm dd yyyy)
Time c.	■ A.M. __ 8 : 0 0 ☐ P.M.	■ A.M. __ 8 : 5 0 ☐ P.M.
12. Sediment in well bottom	__ 3 . 0 inches	___ . 0 inches
13. Water Clarity	Clear ☐ 10 Turbid ■ 15 (Describe)	Clear ■ 20 Turbid ☐ 25 (Describe)
	Light Brown	Clear
14. Total suspended solids	_ NA __ . _ mg/L	_ _ _ _ . _ mg/L
15. COD	_ NA_ _ . _ mg/L	_ _ _ _ . _ mg/L

Fill in if drilling fluids were used and well is at solid waste facility:

16. Additional comments on development:

Developed well to bottom. No water in last bailer.

17. Well developed by: Name (first, last) and Firm

First Name: Eric Last Name:Oleson

Firm Maxim Technologies, Inc.®

Name and Address of Facility Contact/Owner/Responsible Party

First Name:_____ Last Name:_____

Facility/Firm:_____

Street:_____

City/State/Zip:_____

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

Signature:

Print Name: _____

Firm: Maxim Technologies, Inc.®

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	County Name	Well Name
WDNR-PCE INV.	Marathon	MW-16

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID 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 ___50 min.

4. Depth of well (from top of well casing) _19.3 ft.

5. Inside diameter of well ___.2 in.

6. Volume of water in filter pack and well casing ___.__ gal.

7. Volume of water removed from well _18.0 gal.

8. Volume of water added (if any) ___.0 gal.

9. Source of water added NONE

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.	__7.66 ft	_18.80 ft
Date b.	06/11/2002 mm dd yyyy	06/11/2002 mm dd yyyy
Time c.	■ A.M. 8:00 ☐ P.M.	■ A.M. 8:50 ☐ P.M.
12. Sediment in well bottom	_3.0 inches	___.0 inches
13. Water Clarity	Clear ☐ 10 Turbid ■ 15 (Describe)	Clear ■ 20 Turbid ☐ 25 (Describe)
	Light Brown	Clear
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_NA__.__ mg/L	____.__ mg/L
15. COD	_NA__.__ mg/L	____.__ mg/L

16. Additional comments on development:

Developed well to bottom. No water in last bailer.

17. Well developed by: Name (first, last) and Firm

First Name: Eric Last Name:Oleson

Firm Maxim Technologies, Inc.®

Name and Address of Facility Contact/Owner/Responsible Party

First Name:_____ Last Name:_____

Facility/Firm:_____

Street:_____

City/State/Zip:_____

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

Signature:

Print Name: _____

Firm: Maxim Technologies, Inc.®

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	County Name	Well Name
WDNR-PCE INV.	Marathon	MW-15A

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID 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 __ __ 3 5 min.

4. Depth of well (from top of well casing) __ 3 1 . 60 ft.

5. Inside diameter of well __ __ . __ 2 in.

6. Volume of water in filter pack and well casing __ __ __ . __ gal.

7. Volume of water removed from well __ 1 7 . 0 gal.

8. Volume of water added (if any) __ __ __ . 0 gal.

9. Source of water added NONE

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.	__ __ 7 . 8 0 ft	3 0 . 3 4 ft
Date b.	0 6 / 1 1 / 2 0 0 2 mm dd yyyy	0 6 / 1 1 / 2 0 0 2 mm dd yyyy
Time c.	☐ A.M. __ 1 : 0 5 ■ P.M.	Time ☐ A.M. __ 1 : 4 0 ■ P.M.
12. Sediment in well bottom	__ 1 . 0 inches	__ __ . 0 inches
13. Water Clarity	Clear ☐ 10 Turbid ■ 15 (Describe)	Clear ■ 20 Turbid ☐ 25 (Describe)
	Silty Brown	Clear
14. Total suspended solids	NONE . mg/L	. mg/L
15. COD	NONE . mg/L	. mg/L

Fill in if drilling fluids were used and well is at solid waste facility:

16. Additional comments on development:

Developed to clear. Bailed to bottom of well..

17. Well developed by: Name (first, last) and Firm

First Name: Eric Last Name:Oleson

Firm Maxim Technologies, Inc.®

Name and Address of Facility Contact/Owner/Responsible Party

First Name:_____ Last Name:_____

Facility/Firm:_____

Street:_____

City/State/Zip:_____

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

Signature:

Print Name: _____

Firm: Maxim Technologies, Inc.®

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	County Name	Well Name
WDNR-PCE INV.	Marathon	MW-15

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID 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 __ __ 3 5 min.

4. Depth of well (from top of well casing) __ 2 0.3 ft.

5. Inside diameter of well __ __.__ 2 in.

6. Volume of water in filter pack and well casing __ __ __.__ gal.

7. Volume of water removed from well __ 1 8 . 0 gal.

8. Volume of water added (if any) __ __ __. 0 gal.

9. Source of water added NONE

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.	__ __ 6 . 2 0 ft	1 6 . 0 0 ft
Date		
b.	0 6 / 1 1 / 2 0 0 2 (mm dd yyyy)	0 6 / 1 1 / 2 0 0 2 (mm dd yyyy)
Time	☐ A.M.	Time ☐ A.M.
c.	1 2 : 2 0 ■ P.M.	1 2 : 5 5 ■ P.M.
12. Sediment in well bottom		
	__ 2 . 0 inches	__ __ . 0 inches
13. Water Clarity	Clear ☐ 10 Turbid ■ 15 (Describe)	Clear ■ 20 Turbid ☐ 25 (Describe)
	Light Brown	Clear
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids		
	NONE . mg/L	__ __ __ __ . __ mg/L
15. COD		
	NONE . mg/L	__ __ __ __ . __ mg/L

16. Additional comments on development:

Developed to clear. Bailed to bottom of well.

17. Well developed by: Name (first, last) and Firm

First Name: Eric Last Name:Oleson

Firm Maxim Technologies, Inc.®

Name and Address of Facility Contact/Owner/Responsible Party

First Name:_____ Last Name:_____

Facility/Firm:_____

Street:_____

City/State/Zip:_____

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

Signature:

Print Name: _____

Firm: Maxim Technologies, Inc.®

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	County Name	Well Name
WDNR-PCE INV.	Marathon	MW-14A

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID 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 ___56 min.

4. Depth of well (from top of well casing) _37.0 ft.

5. Inside diameter of well ___.2 in.

6. Volume of water in filter pack and well casing ____. gal.

7. Volume of water removed from well _48.0 gal.

8. Volume of water added (if any) ____.0 gal.

9. Source of water added NONE

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.	__17.40 ft	__28.10 ft
Date b. (mm dd yyyy)	06/11/2002	06/11/2002
Time c.	10:58 ■ A.M. ☐ P.M.	11:52 ■ A.M. ☐ P.M.
12. Sediment in well bottom	___.0 inches	___.0 inches
13. Water Clarity	Clear ☐ 10 Turbid ■ 15 (Describe)	Clear ■ 20 Turbid ☐ 25 (Describe)
	Light Brown	Clear

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	NONE ___. mg/L	____.__ mg/L
15. COD	NONE___. mg/L	____.__ mg/L

16. Additional comments on development:

Developed to clear, bounced bailer on bottom

17. Well developed by: Name (first, last) and Firm

First Name: Eric Last Name:Oleson

Firm Maxim Technologies, Inc.®

Name and Address of Facility Contact/Owner/Responsible Party

First Name:_____ Last Name:_____

Facility/Firm:_____

Street:_____

City/State/Zip:_____

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

Signature:

Print Name: _____

Firm: Maxim Technologies, Inc.®

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	County Name	Well Name
WDNR-PCE INV.	Marathon	MW-14

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID 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 ___30 min.

4. Depth of well (from top of well casing) __19.8 ft.

5. Inside diameter of well ___.2 in.

6. Volume of water in filter pack and well casing ____.__ gal.

7. Volume of water removed from well __26.0 gal.

8. Volume of water added (if any) ____.0 gal.

9. Source of water added NONE

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.	__10.50 ft	__14.50 ft
Date b.	06/11/2002 mm dd yyyy	06/11/2002 mm dd yyyy
Time c.	■ A.M. 10:08 ☐ P.M.	■ A.M. 10:38 ☐ P.M.
12. Sediment in well bottom	___.0 inches	___.0 inches
13. Water Clarity	Clear ☐ 10 Turbid ■ 15 (Describe) Light Brown	Clear ■ 20 Turbid ☐ 25 (Describe) Clear
14. Total suspended solids	NONE ___ mg/L	____.__ mg/L
15. COD	NONE ___ mg/L	____.__ mg/L

Fill in if drilling fluids were used and well is at solid waste facility:

16. Additional comments on development:

Developed to clear

17. Well developed by: Name (first, last) and Firm

First Name: Eric Last Name:Oleson

Firm Maxim Technologies, Inc.®

Name and Address of Facility Contact/Owner/Responsible Party

First Name:_____ Last Name:_____

Facility/Firm:_____

Street:_____

City/State/Zip:_____

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

Signature:

Print Name: _____

Firm: Maxim Technologies, Inc.®

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	County Name	Well Name
WDNR-PCE INV.	Marathon	B-4A

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID 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 __ __ 7 0 min.

4. Depth of well (from top of well casing) __ 3 8 . 4 0 ft.

5. Inside diameter of well __ __ . __ 2 in.

6. Volume of water in filter pack and well casing __ __ __ . __ gal.

7. Volume of water removed from well __ 3 0 . 0 gal.

8. Volume of water added (if any) __ __ __ . 0 gal.

9. Source of water added NONE

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.	__ 1 2 . 6 0 ft	3 0 . 0 0 ft
Date b.	0 6 / 1 1 / 2 0 0 2 (mm dd yyyy)	0 6 / 1 1 / 2 0 0 2 (mm dd yyyy)
Time c.	__ 2 : 0 5 ☐ A.M. ■ P.M.	__ 3 : 1 5 ☐ A.M. ■ P.M.
12. Sediment in bottom	__ 4 . 0 inches	__ __ . 0 inches
13. Water Clarity	Clear ■ 10 Turbid ☐ 15 (Describe)	Clear ■ 20 Turbid ☐ 25 (Describe)
	Light Brown	Clear
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	NONE . mg/L	. mg/L
15. COD	NONE . mg/L	. mg/L

16. Additional comments on development:

Fast recovery

17. Well developed by: Name (first, last) and Firm

First Name: Eric Last Name:Oleson

Firm Maxim Technologies, Inc.®

Name and Address of Facility Contact/Owner/Responsible Party

First Name:_____ Last Name:_____

Facility/Firm:_____

Street:_____

City/State/Zip:_____

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

Signature:

Print Name: _____

Firm: Maxim Technologies, Inc.®

NOTE: See instructions for more information including a list of county codes and well type codes.

Appendix F

Four Mile Radius Public and Private Well Information

Abbotsford PCE
PWS ID 73701485 Abbotsford Waterworks

Source Id	Status	Well #	Availability	Type
1	Active	BG273	Permanent	Source
2	Active	BG274	Permanent	Source
5	Active	BG277	Permanent	Source
8	Active	BG280	Permanent	Source
6	Active	BG278	Permanent	Source
4	Active	BG276	Permanent	Source
11	Active	FJ571	Permanent	Source
12	Active	GC559	Permanent	Source
3	Active	BG275	Permanent	Source
200	Active		Permanent	Entry Point
300	Active		Permanent	Entry Point
10	Active	GS751	Permanent	Source
7	Active	BG279	Permanent	Source
9	Active	BG281	Permanent	Source

Level 1 &2			population	163 persons/well
	Abbotsford city	Clark, Marathon	1,956	12 wells
	163 persons/muniwell	2.75 persons/hshld	1956/12	Level 1
			1630	#11
			27.5	4981
			27.5	4944 cem. rd
				Level 2
			2.75	4954 cem. rd.
			2.75	4932 cem rd.
			1690.5	

Potential

Miles from Site	Private wells	est. population
0-0.25	5	14
0.25-0.5	6	17
0.5-1	22	60
1-2	56	159
2-3	122	336
3-4	196	540

SDMS US EPA Region V

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WISCONSIN
DEPT. OF NATURAL RESOURCES

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Scott Hassett, Secretary

101 S. Webster St.
Box 7921
Madison, Wisconsin 53707-7921
Telephone 608-266-2621
FAX 608-267-3579
TTY 608-267-6897

October 15, 2003

Laura Ripley, Early Action Proj. Mgr., SE-J4
U.S. Environmental Protection Agency
77 W. Jackson Blvd.
Chicago, IL. 60604

Subject: Abbotsford PCE Investigation Analytical Data

Dear Ms. Ripley:

As requested, attached are the raw data for the Abbotsford PCE Investigation project. If you need anything else, please feel free to contact me.

Sincerely,

Mike Netzer, P.G., Hydrogeologist
Remediation & Redevelopment Program

CC: John Grump - WCR

Analytical Results (Qualified Data)

Site : Abbotsford PCE Number of Water Samples : 9

Lab. : CRL

Reviewer :

Sample Type		Background						Rinsate blank			
CRL Sample Number :		2002XG02S03		2002XG02S07		2002XG02S04		2002XG02R01		2002XG02S06	
Sampling Location :		B-4A		MW-14		MW-15		MW-17		PZ-14A*	
Matrix :		Water		Water		Water		Water		Water	
Units :		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :											
ANALYTE	Reporting Limit	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	44	30.2	M	60.8		33.8	M		U	36.4	M
ANTIMONY	4		U		U		U		U		U
ARSENIC	2		U		U		U		U	0.9	M
BARIUM	0.9	51.9		30.4		120			U	35.9	
BERYLLIUM	2.8		U		U		U		U		U
CADMIUM	0.3		U		U		U		U		U
CALCIUM	82	49100		12700		47100		93.1		43800	
CHROMIUM	0.9	1.1		0.6	M	0.6	M		U	1.9	
COBALT	4.2		U		U		U		U		U
COPPER	4.4		U		U		U		U		U
IRON	42		U	44.7			U		U		U
LEAD	2		U		U		U		U		U
MAGNESIUM	12	14500		4170		14100		34.9	BJ	9800	
MANGANESE	8.6	53.6		108		400			U	6.5	M
MERCURY*	0.5		UJ		UJ		UJ		UJ		UJ
NICKEL	2.7	1.4	M	1.6	M	2.1	M		U	1.1	M
POTASSIUM	482	732		730		1880			U	543	
SELENIUM*	4		U		U		U		U		U
SILVER	1.7		U		U		U		U		U
SODIUM	368	9860		6510		9860			U	5270	
THALLIUM	2		U		U		U		U		U
VANADIUM	17		U		U		U		U		U
ZINC	36		U		U	11	M		U	13.1	M
CYANIDE	8		U		U		U		U		U

* There are multiple reporting limits for these analytes due to dilution.

Analytical Results (Qualified Data)

Site : Abbotsford PCE
Lab. : CRL
Reviewer :

Sample Type				Field duplicate of MW-16A					
Sample Number :		2002XG02S05		2002XG02D02		2002XG02S01		2002XG02S02	
Sampling Location :		PZ-15A**		PZ-17A		MW-16		MW-16A	
Matrix :		Water		Water		Water		Water	
Units :		ug/L		ug/L		ug/L		ug/L	
Date Sampled :									
ANALYTE	Reporting Limit	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	44	94.2		143		106		39.8	M
ANTIMONY	4		U		U	3	M		U
ARSENIC	2	1.0	M	1.9	M		U		U
BARIUM	0.9	108		113		209		145	
BERYLLIUM	2.8		U		U		U		U
CADMIUM	0.3		U		U		U		U
CALCIUM	82	49800		49700		136000		76700	
CHROMIUM	0.9		U		U		U		U
COBALT	4.2		U		U		U		U
COPPER	4.4		U		U		U		U
IRON	42	61.5		91.7			U		U
LEAD	2		U		U		U		U
MAGNESIUM	12	17400		17400		38300		23300	
MANGANESE	8.6	339		351		774		2950	
MERCURY*	0.5		UJ		UJ	1.0	UJ		UJ
NICKEL	2.7	1.5	M	2.2	M	6.5		10.4	
POTASSIUM	482	2660		2800		2380		4530	
SELENIUM*	4		U		U	8	U		U
SILVER	1.7		U		U		U		U
SODIUM	368	8460		8550		40500		21000	
THALLIUM	2		U		U		U		U
VANADIUM	17		U		U		U		U
ZINC	36		U		U	16.1	M		U
CYANIDE	8		U		U		U		U

* There are multiple reporting limits for these analytes due to dilution.

Analytical Results (Qualified Data)

Case #: 30572 SDG : ME1YM9
Site : ABBOTSFORD PCE Number of Soil Samples : 10
Lab. : LIBRTY Number of Water Samples : 0
Reviewer : J. GANZ
Date : JULY 23, 2002

Sample Number :	ME1YM9		ME1YN1		ME1YN3		ME1YN5		ME1YN6	
Sampling Location :	SS-1A		SS-5A		SS-2B		SS-3B		SS-4A	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	06/03/2002		06/03/2002		06/06/2002		06/05/2002		06/06/2002	
Time Sampled :	14:37		12:05		11:25		10:30		15:20	
%Solids :	86.4		87.1		81.9		87.3		88.3	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	8880		6980		15300		10100		9230	
ANTIMONY	0.50	UJ	0.49	UJ	0.52	UJ	0.48	UJ	0.49	UJ
ARSENIC	1.3		1.1		1.9		2.0		2.2	
BARIUM	48.4		30.9		160		74.7		49.5	
BERYLLIUM	0.40		0.36		1.1		0.46		0.42	
CADMIUM	0.27	J	0.27	J	0.33	J	0.36	J	0.28	J
CALCIUM	2990		11200		3370		22100		3210	
CHROMIUM	20.5		16.0		23.4		21.3		21.0	
COBALT	6.3		5.2		8.5		6.4		7.8	
COPPER	61.6		56.1		84.4		55.5		75.2	
IRON	13800		11600		16700		15700		15600	
LEAD	5.1		3.7		6.0		5.5		4.9	
MAGNESIUM	3210		5110		5710		6470		3590	
MANGANESE	197		141		157		387		141	
MERCURY	0.056		0.060		0.064		0.089		0.14	
NICKEL	15.0		12.2		18.6		13.5		18.7	
POTASSIUM	803		716		5410		1220		710	
SELENIUM	0.81	J	0.48	J	0.56	J	0.46	U	0.64	J
SILVER	0.11	U	0.11	U	0.12	U	0.11	U	0.11	U
SODIUM	35.8	U	35.2	U	37.0	U	34.4	U	35.0	U
THALLIUM	0.50	U	0.49	U	0.52	U	0.48	U	0.49	U
VANADIUM	28.2		28.6		28.8		35.2		35.9	
ZINC	26.7	J	20.1	J	27.9	J	24.7	J	25.8	J
CYANIDE	0.035	UJ	0.034	U	0.037	UJ	0.033	UJ	0.034	U

Analytical Results (Qualified Data)

Case #: 30572 SDG : ME1YM9
Site : ABBOTSFORD PCE
Lab. : LIBRTY
Reviewer : J. GANZ
Date : JULY 23, 2002

Background

Field duplicate of SS-~~8A~~ 3B

Sample Number :	ME1YN7		ME1YN8		ME1YN9		ME1YP0		ME1YP1	
Sampling Location :	SS-4B		SS-6A		SS-7A		SS-8A		SS-8B	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	06/06/2002		06/05/2002		06/05/2002		06/03/2002		06/05/2002	
Time Sampled :	16:35		17:20		13:23		12:05		10:40	
%Solids :	80.5		82.8		84.2		87.5		79.9	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	17600		16200		11700		7780		9130	
ANTIMONY	0.52	UJ	0.53	UJ	0.52	UJ	0.49	UJ	0.54	UJ
ARSENIC	1.6		3.7		2.3		1.4		2.9	
BARIUM	92.7		83.9		59.0		34.3		64.8	
BERYLLIUM	0.76		0.69		0.45		0.39		0.51	
CADMIUM	0.38	J	0.52	J	0.38	J	0.27	J	0.29	J
CALCIUM	7370		4550		1750		14300		7140	
CHROMIUM	26. 0		40.3		28.9		16.8		18.9	
COBALT	6.1		16.7		5.9		5.9		6.9	
COPPER	46.8		92.1		93.7		54.6		52.3	
IRON	17900		25200		18500		12800		14900	
LEAD	9.8		6.4		3.7		4.0		4.9	
MAGNESIUM	3490		5590		3440		5670		3360	
MANGANESE	90.4		240		146		158		260	
MERCURY	0.059		0.060		0.062		0.051		0.070	
NICKEL	15.3		31.2		17.9		13.0		11.3	
POTASSIUM	812		1380		600		834		1170	
SELENIUM	0.66	J	1.1	J	1.0	J	0.70	J	0.80	J
SILVER	0.12	U	0.12	U	0.12	U	0.11	U	0.12	U
SODIUM	37.7	U	37.7	U	37.4	U	35.3	U	38.7	U
THALLIUM	0.52	U	0.53	U	0.52	U	0.49	U	0.54	U
VANADIUM	38.2		50.3		44.8		30.8		31.0	
ZINC	22.6	J	43.6	J	28.6	J	21.6	J	21.0	J
CYANIDE	0.037	U	0.035	U	0.036	UJ	0.033	U	0.037	UJ

Analytical Results (Qualified Data)

Case #: 30572 | SDG : E1YM9 | A
Site : ABBOTSFORD PCE | Number of Soil Samples : 10
Lab. : ENVSYSTEMS | Number of Water Samples : 0
Reviewer : S. Tobin
Date : 07/15/2002

Sample Number :	E1YM9		E1YN1		E1YN3		E1YN5		E1YN6	
Sampling Location :	SS-1A		SS-5A		SS-2B		SS-3B		SS-4A	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	06/03/2002		06/03/2002		06/06/2002		06/05/2002		06/06/2002	
Time Sampled :	14:37		12:05		11:25		10:30		15:20	
%Moisture :	13		12		18		18		12	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	9	UJ	9	UJ	12	UJ	13	UJ	9	UJ
Chloromethane	9	U	9	U	12	U	13	U	9	U
Vinyl Chloride	9	U	9	U	12	U	13	U	9	U
Bromomethane	9	U	9	U	12	U	13	U	9	U
Chloroethane	9	U	9	U	12	UJ	13	UJ	9	UJ
Trichlorofluoromethane	9	U	9	U	12	UJ	13	UJ	9	UJ
1,1-Dichloroethene	9	U	9	U	12	U	13	U	9	U
1,1,2-Trichloro-1,2,2-trifluoroethane	9	U	9	U	12	U	13	U	9	U
Acetone	9	U	9	U	12	UJ	13	UJ	9	UJ
Carbon Disulfide	9	U	9	U	12	U	13	U	9	U
Methyl Acetate	9	U	9	U	12	U	13	U	9	U
Methylene Chloride	9	U	9	U	12	U	13	U	9	U
trans-1,2-Dichloroethene	9	U	9	U	12	U	13	U	9	U
Methyl tert-Butyl Ether	9	U	9	U	12	U	13	U	9	U
1,1-Dichloroethane	9	U	9	U	12	U	13	U	9	U
cis-1,2-Dichloroethene	9	U	9	U	12	U	13	U	9	U
2-Butanone	9	U	9	U	12	UJ	13	UJ	9	UJ
Chloroform	9	U	9	U	12	U	13	U	9	U
1,1,1-Trichloroethane	9	U	9	U	12	U	13	U	9	U
Cyclohexane	9	U	9	U	12	U	13	U	9	U
Carbon Tetrachloride	9	U	9	U	12	U	13	U	9	U
Benzene	9	U	9	U	12	U	13	U	9	U
1,2-Dichloroethane	9	U	9	U	12	U	13	U	9	U
Trichloroethene	9	U	9	U	12	U	13	U	9	U
Methylcyclohexane	9	U	9	U	12	U	13	U	9	U
1,2-Dichloropropane	9	U	9	U	12	U	13	U	9	U
Bromodichloromethane	9	U	9	U	12	U	13	U	9	U
cis-1,3-Dichloropropene	9	U	9	U	12	U	13	U	9	U
4-Methyl-2-pentanone	9	U	9	U	12	U	13	U	9	U
Toluene	9	U	9	U	12	U	13	U	9	U
trans-1,3-Dichloropropene	9	U	9	U	12	U	13	U	9	U
1,1,2-Trichloroethane	9	U	9	U	12	U	13	U	9	U
Tetrachloroethene	9	U	9	U	12	U	13	U	9	U

Analytical Results (Qualified Data)

Case #: 30572 SDG : E1YM9 B
Site : ABBOTSFORD PCE
Lab. : ENVSYSTEMS
Reviewer : S. Tobin
Date : 07/15/2002

Sample Number :	E1YM9		E1YN1		E1YN3		E1YN5		E1YN6	
Sampling Location :	SS-1A		SS-5A		SS-2B		SS-3B		SS-4A	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	06/03/2002		06/03/2002		06/06/2002		06/05/2002		06/06/2002	
Time Sampled :	14:37		12:05		11:25		10:30		15:20	
%Moisture :	13		12		18		18		12	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	9	U	9	U	12	U	13	U	9	U
Dibromochloromethane	9	U	9	U	12	U	13	U	9	U
1,2-Dibromoethane	9	U	9	U	12	U	13	U	9	U
Chlorobenzene	9	U	9	U	12	U	13	U	9	U
Ethylbenzene	9	U	9	U	12	U	13	U	9	U
Xylenes (total)	9	U	9	U	12	U	13	U	9	U
Styrene	9	U	9	U	12	U	13	U	9	U
Bromoform	9	U	9	U	12	U	13	U	9	U
Isopropylbenzene	9	U	9	U	12	U	13	U	9	U
1,1,2,2-Tetrachloroethane	9	U	9	U	12	U	13	U	9	U
1,3-Dichlorobenzene	9	U	9	U	12	U	13	U	9	U
1,4-Dichlorobenzene	9	U	9	U	12	U	13	U	9	U
1,2-Dichlorobenzene	9	U	9	U	12	U	13	U	9	U
1,2-Dibromo-3-chloropropane	9	U	9	U	12	U	13	U	9	U
1,2,4-Trichlorobenzene	9	U	9	U	12	U	13	U	9	U

Analytical Results (Qualified Data)

Case #: 30572 SDG : E1YM9 A
Site : ABBOTSFORD PCE
Lab. : ENVSYSTEMS
Reviewer : S. Tobin
Date : 07/15/2002

	Background						Lab QC		Lab QC	
Sample Number :	E1YN7		E1YN8		E1YN9		E1YN9MS		E1YN9MSD	
Sampling Location :	SS-4B		SS-6A		SS-7A		SS-7A		SS-7A	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	06/06/2002		06/05/2002		06/05/2002		06/05/2002		06/05/2002	
Time Sampled :	16:35		17:20		13:23		13:23		13:23	
%Moisture :	21		19		13		13		13	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	12	UJ	11	UJ	10	UJ	10	UJ	10	UJ
Chloromethane	12	U	11	U	10	U	10	U	10	U
Vinyl Chloride	12	U	11	U	10	U	10	U	10	U
Bromomethane	12	U	11	U	10	U	10	U	10	U
Chloroethane	12	UJ	11	UJ	10	UJ	10	UJ	10	UJ
Trichlorofluoromethane	12	UJ	11	UJ	10	UJ	10	UJ	10	UJ
1,1-Dichloroethene	12	U	11	U	10	U	59		57	
1,1,2-Trichloro-1,2,2-trifluoroethane	12	U	11	U	10	U	10	U	10	U
Acetone	12	UJ	11	UJ	10	UJ	10	UJ	10	UJ
Carbon Disulfide	12	U	11	U	10	U	10	U	10	U
Methyl Acetate	12	U	11	U	10	U	10	U	10	U
Methylene Chloride	12	U	11	U	10	U	10	U	10	U
trans-1,2-Dichloroethene	12	U	11	U	10	U	10	U	10	U
Methyl tert-Butyl Ether	12	U	11	U	10	U	10	U	10	U
1,1-Dichloroethane	12	U	11	U	10	U	10	U	10	U
cis-1,2-Dichloroethene	12	U	11	U	10	U	10	U	10	U
2-Butanone	12	UJ	11	UJ	10	UJ	10	UJ	10	UJ
Chloroform	12	U	11	U	10	U	10	U	10	U
1,1,1-Trichloroethane	12	U	11	U	10	U	10	U	10	U
Cyclohexane	12	U	11	U	10	U	10	U	10	U
Carbon Tetrachloride	12	U	11	U	10	U	10	U	10	U
Benzene	12	U	11	U	10	U	52		51	
1,2-Dichloroethane	12	U	11	U	10	U	10	U	10	U
Trichloroethene	12	U	11	U	10	U	58		58	
Methylcyclohexane	12	U	11	U	10	U	10	U	10	U
1,2-Dichloropropane	12	U	11	U	10	U	10	U	10	U
Bromodichloromethane	12	U	11	U	10	U	10	U	10	U
cis-1,3-Dichloropropene	12	U	11	U	10	U	10	U	10	U
4-Methyl-2-pentanone	12	U	11	U	10	U	10	U	10	U
Toluene	12	U	11	U	10	U	59		57	
trans-1,3-Dichloropropene	12	U	11	U	10	U	10	U	10	U
1,1,2-Trichloroethane	12	U	11	U	10	U	10	U	10	U
Tetrachloroethene	12	U	11	U	10	U	10	U	10	U

Analytical Results (Qualified Data)

Case #: 30572 SDG : E1YM9 B
Site : ABBOTSFORD PCE
Lab. : ENVSYSTEMS
Reviewer : S. Tobin
Date : 07/15/2002

	Background						Lab QC		Lab QC	
Sample Number :	E1YN7		E1YN8		E1YN9		E1YN9MS		E1YN9MSD	
Sampling Location :	SS-4B		SS-6A		SS-7A		SS-7A		SS-7A	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	06/06/2002		06/05/2002		06/05/2002		06/05/2002		06/05/2002	
Time Sampled :	16:35		17:20		13:23		13:23		13:23	
%Moisture :	21		19		13		13		13	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	12	U	11	U	10	U	5	J	10	U
Dibromochloromethane	12	U	11	U	10	U	10	U	10	U
1,2-Dibromoethane	12	U	11	U	10	U	10	U	10	U
Chlorobenzene	12	U	11	U	10	U	58		57	
Ethylbenzene	12	U	11	U	10	U	10	U	10	U
Xylenes (total)	12	U	11	U	10	U	10	U	10	U
Styrene	12	U	11	U	10	U	10	U	10	U
Bromoform	12	U	11	U	10	U	10	U	10	U
Isopropylbenzene	12	U	11	U	10	U	10	U	10	U
1,1,2,2-Tetrachloroethane	12	U	11	U	10	U	10	U	10	U
1,3-Dichlorobenzene	12	U	11	U	10	U	10	U	10	U
1,4-Dichlorobenzene	12	U	11	U	10	U	10	U	10	U
1,2-Dichlorobenzene	12	U	11	U	10	U	10	U	10	U
1,2-Dibromo-3-chloropropane	12	U	11	U	10	U	10	U	10	U
1,2,4-Trichlorobenzene	12	U	11	U	10	U	10	U	10	U

Analytical Results (Qualified Data)

Case #: 30572 SDG : E1YM9 A
Site : ABBOTSFORD PCE
Lab. : ENVSYSTEMS
Reviewer : S. Tobin
Date : 07/15/2002

Sample Number :	E1YP0		E1YP1		VBLKFF		VBLKFI		VBLKFJ	
Sampling Location :	SS-8A		SS-8B							
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	06/03/2002		06/05/2002							
Time Sampled :	12:05		10:40							
%Moisture :	13		15		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	9	UJ	11	UJ	10	UJ	10	UJ	10	UJ
Chloromethane	9	U	11	U	10	U	10	U	10	U
Vinyl Chloride	9	U	11	U	10	U	10	U	10	U
Bromomethane	9	U	11	U	10	U	10	U	10	U
Chloroethane	9	U	11	UJ	10	U	10	UJ	10	U
Trichlorofluoromethane	9	U	11	UJ	10	U	10	UJ	10	U
1,1-Dichloroethene	9	U	11	U	10	U	10	U	10	U
1,1,2-Trichloro-1,2,2-trifluoroethane	9	U	11	U	10	U	10	U	10	U
Acetone	9	U	11	UJ	5	J	2	J	2	J
Carbon Disulfide	9	U	11	U	10	U	10	U	10	U
Methyl Acetate	9	U	11	U	10	U	10	U	10	U
Methylene Chloride	9	U	11	U	5	J	4	J	1	J
trans-1,2-Dichloroethene	9	U	11	U	10	U	10	U	10	U
Methyl tert-Butyl Ether	9	U	11	U	10	U	10	U	10	U
1,1-Dichloroethane	9	U	11	U	10	U	10	U	10	U
cis-1,2-Dichloroethene	9	U	11	U	10	U	10	U	10	U
2-Butanone	9	U	11	UJ	10	U	10	UJ	10	U
Chloroform	9	U	11	U	10	U	10	U	10	U
1,1,1-Trichloroethane	9	U	11	U	10	U	10	U	10	U
Cyclohexane	9	U	11	U	10	U	10	U	10	U
Carbon Tetrachloride	9	U	11	U	10	U	10	U	10	U
Benzene	9	U	11	U	10	U	10	U	10	U
1,2-Dichloroethane	9	U	11	U	10	U	10	U	10	U
Trichloroethene	9	U	11	U	10	U	10	U	10	U
Methylcyclohexane	9	U	11	U	10	U	10	U	10	U
1,2-Dichloropropane	9	U	11	U	10	U	10	U	10	U
Bromodichloromethane	9	U	11	U	10	U	10	U	10	U
cis-1,3-Dichloropropene	9	U	11	U	10	U	10	U	10	U
4-Methyl-2-pentanone	9	U	11	U	10	U	10	U	10	U
Toluene	9	U	11	U	10	U	10	U	10	U
trans-1,3-Dichloropropene	9	U	11	U	10	U	10	U	10	U
1,1,2-Trichloroethane	9	U	11	U	10	U	10	U	10	U
Tetrachloroethene	9	U	11	U	10	U	10	U	10	U

Analytical Results (Qualified Data)

Case #: 30572 SDG : E1YM9 B
Site : ABBOTSFORD PCE
Lab. : ENVSYSTEMS
Reviewer : S. Tobin
Date : 07/15/2002

Sample Number :	E1YP0		E1YP1		VBLKFF		VBLKFI		VBLKFJ	
Sampling Location :	SS-8A		SS-8B							
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	06/03/2002		06/05/2002							
Time Sampled :	12:05		10:40							
%Moisture :	13		15		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	9	U	11	U	10	U	10	U	10	U
Dibromochloromethane	9	U	11	U	10	U	10	U	10	U
1,2-Dibromoethane	9	U	11	U	10	U	10	U	10	U
Chlorobenzene	9	U	11	U	10	U	10	U	10	U
Ethylbenzene	9	U	11	U	10	U	10	U	10	U
Xylenes (total)	9	U	11	U	10	U	10	U	10	U
Styrene	9	U	11	U	1	J	10	U	10	U
Bromoform	9	U	11	U	10	U	10	U	10	U
Isopropylbenzene	9	U	11	U	10	U	10	U	10	U
1,1,2,2-Tetrachloroethane	9	U	11	U	10	U	10	U	10	U
1,3-Dichlorobenzene	9	U	11	U	10	U	10	U	10	U
1,4-Dichlorobenzene	9	U	11	U	10	U	10	U	10	U
1,2-Dichlorobenzene	9	U	11	U	10	U	10	U	10	U
1,2-Dibromo-3-chloropropane	9	U	11	U	10	U	10	U	10	U
1,2,4-Trichlorobenzene	9	U	11	U	10	U	10	U	10	U

Analytical Results (Qualified Data)

Case #: 30572 SDG : E1YM9 A
Site : ABBOTSFORD PCE
Lab. : ENVSYSTEMS
Reviewer : S. Tobin
Date : 07/15/2002
Lab blank

Sample Number :	VHBLKFJ									
Sampling Location :										
Matrix :	Soil									
Units :	ug/Kg									
Date Sampled :										
Time Sampled :										
%Moisture :	0									
pH :										
Dilution Factor :	1.0									
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	10	UJ								
Chloromethane	10	U								
Vinyl Chloride	10	U								
Bromomethane	10	U								
Chloroethane	10	U								
Trichlorofluoromethane	10	U								
1,1-Dichloroethene	10	U								
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U								
Acetone	10	UJ								
Carbon Disulfide	10	U								
Methyl Acetate	10	U								
Methylene Chloride	10	U								
trans-1,2-Dichloroethene	10	U								
Methyl tert-Butyl Ether	10	U								
1,1-Dichloroethane	10	U								
cis-1,2-Dichloroethene	10	U								
2-Butanone	10	U								
Chloroform	10	U								
1,1,1-Trichloroethane	10	U								
Cyclohexane	10	U								
Carbon Tetrachloride	10	U								
Benzene	10	U								
1,2-Dichloroethane	10	U								
Trichloroethene	10	U								
Methylcyclohexane	10	U								
1,2-Dichloropropane	10	U								
Bromodichloromethane	10	U								
cis-1,3-Dichloropropene	10	U								
4-Methyl-2-pentanone	10	U								
Toluene	10	U								
trans-1,3-Dichloropropene	10	U								
1,1,2-Trichloroethane	10	U								
Tetrachloroethene	10	U								

Analytical Results (Qualified Data)

Case #: 30572 SDG : E1YM9 B
Site : ABBOTSFORD PCE
Lab. : ENVSYSTEMS
Reviewer : S. Tobin
Date : 07/15/2002
Lab blank

Sample Number :	VHBLKFJ									
Sampling Location :										
Matrix :	Soil									
Units :	ug/Kg									
Date Sampled :										
Time Sampled :										
%Moisture :	0									
pH :										
Dilution Factor :	1.0									
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	10	U								
Dibromochloromethane	10	U								
1,2-Dibromoethane	10	U								
Chlorobenzene	10	U								
Ethylbenzene	10	U								
Xylenes (total)	10	U								
Styrene	10	U								
Bromoform	10	U								
Isopropylbenzene	10	U								
1,1,2,2-Tetrachloroethane	10	U								
1,3-Dichlorobenzene	10	U								
1,4-Dichlorobenzene	10	U								
1,2-Dichlorobenzene	10	U								
1,2-Dibromo-3-chloropropane	10	U								
1,2,4-Trichlorobenzene	10	U								

Analytical Results (Qualified Data)

Case #: 30572 SDG : E1YM9 A
Site : ABBOTSFORD PCE Number of Soil Samples : 10
Lab. : ENVSYSTEMS Number of Water Samples : 0
Reviewer : S. Tobin
Date : 07/15/2002

Sample Number :	E1YM9		E1YN1		E1YN3		E1YN5		E1YN6	
Sampling Location :	SS-1A		SS-5A		SS-2B		SS-3B		SS-4A	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	06/03/2002		06/03/2002		06/06/2002		06/05/2002		06/06/2002	
Time Sampled :	14:37		12:05		11:25		10:30		15:20	
%Moisture :	13		12		18		18		12	
pH :	7.1		7.4		7.6		7.6		7.7	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	380	UJ	380	UJ	400	UJ	400	UJ	380	UJ
Phenol	380	U	380	U	400	U	400	U	380	U
bis-(2-Chloroethyl) ether	380	U	380	U	400	U	400	U	380	U
2-Chlorophenol	380	U	380	U	400	U	400	U	380	U
2-Methylphenol	380	U	380	U	400	U	400	U	380	U
2,2'-oxybis(1-Chloropropane)	380	U	380	U	400	U	400	U	380	U
Acetophenone	380	U	380	U	400	U	400	U	380	U
4-Methylphenol	380	U	380	U	400	U	400	U	380	U
N-Nitroso-di-n-propylamine	380	U	380	U	400	U	400	U	380	U
Hexachloroethane	380	U	380	U	400	U	400	U	380	U
Nitrobenzene	380	U	380	U	400	U	400	U	380	U
Isophorone	380	U	380	U	400	U	400	U	380	U
2-Nitrophenol	380	U	380	U	400	U	400	U	380	U
2,4-Dimethylphenol	380	U	380	U	400	U	400	U	380	U
bis(2-Chloroethoxy)methane	380	U	380	U	400	U	400	U	380	U
2,4-Dichlorophenol	380	U	380	U	400	U	400	U	380	U
Naphthalene	380	U	380	U	400	U	400	U	380	U
4-Chloroaniline	380	U	380	U	400	U	400	U	380	U
Hexachlorobutadiene	380	U	380	U	400	U	400	U	380	U
Caprolactam	380	U	380	U	400	U	400	U	380	U
4-Chloro-3-methylphenol	380	U	380	U	400	U	400	U	380	U
2-Methylnaphthalene	380	U	380	U	400	U	400	U	380	U
Hexachlorocyclopentadiene	380	UJ	380	UJ	400	UJ	400	UJ	380	UJ
2,4,6-Trichlorophenol	380	U	380	U	400	U	400	U	380	U
2,4,5-Trichlorophenol	950	U	940	U	1000	U	1000	U	940	U
1,1'-Biphenyl	380	U	380	U	400	U	400	U	380	U
2-Chloronaphthalene	380	U	380	U	400	U	400	U	380	U
2-Nitroaniline	950	U	940	U	1000	U	1000	U	940	U
Dimethylphthalate	380	U	380	U	400	U	400	U	380	U
2,6-Dinitrotoluene	380	U	380	U	400	U	400	U	380	U
Acenaphthylene	380	U	380	U	400	U	400	U	380	U
3-Nitroaniline	950	U	940	U	1000	U	1000	U	940	U
Acenaphthene	380	U	380	U	400	U	400	U	380	U

Analytical Results (Qualified Data)

Case #: 30572 SDG : E1YM9 B
Site : ABBOTSFORD PCE
Lab. : ENVSYSTEMS
Reviewer : S. Tobin
Date : 07/15/2002

Sample Number :	E1YM9		E1YN1		E1YN3		E1YN5		E1YN6	
Sampling Location :	SS-1A		SS-5A		SS-2B		SS-3B		SS-4A	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	06/03/2002		06/03/2002		06/06/2002		06/05/2002		06/06/2002	
Time Sampled :	14:37		12:05		11:25		10:30		15:20	
%Moisture :	13		12		18		18		12	
pH :	7.1		7.4		7.6		7.6		7.7	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	950	R	940	R	1000	R	1000	R	940	R
4-Nitrophenol	950	U	940	U	1000	U	1000	U	940	U
Dibenzofuran	380	U	380	U	400	U	400	U	380	U
2,4-Dinitrotoluene	380	U	380	U	400	U	400	U	380	U
Diethylphthalate	380	U	380	U	400	U	400	U	380	U
Fluorene	380	U	380	U	400	U	400	U	380	U
4-Chlorophenyl-phenyl ether	380	U	380	U	400	U	400	U	380	U
4-Nitroaniline	950	U	940	U	1000	U	1000	U	940	U
4,6-Dinitro-2-methylphenol	950	UJ	940	UJ	1000	UJ	1000	UJ	940	UJ
N-Nitrosodiphenylamine	380	U	380	U	400	U	400	U	380	U
4-Bromophenyl-phenylether	380	U	380	U	400	U	400	U	380	U
Hexachlorobenzene	380	U	380	U	400	U	400	U	380	U
Atrazine	380	U	380	U	400	U	400	U	380	U
Pentachlorophenol	950	UJ	940	UJ	1000	UJ	1000	UJ	940	UJ
Phenanthrene	380	U	380	U	400	U	400	U	380	U
Anthracene	380	U	380	U	400	U	400	U	380	U
Carbazole	380	U	380	U	400	U	400	U	380	U
Di-n-butylphthalate	380	U	380	U	400	U	400	U	380	U
Fluoranthene	380	U	380	U	400	U	400	U	380	U
Pyrene	380	U	380	U	400	U	400	U	380	U
Butylbenzylphthalate	380	UJ	380	UJ	400	UJ	400	UJ	380	UJ
3,3'-Dichlorobenzidine	380	UJ	380	UJ	400	UJ	400	UJ	380	UJ
Benzo(a)anthracene	380	U	380	U	400	U	400	U	380	U
Chrysene	380	U	380	U	400	U	400	U	380	U
bis(2-Ethylhexyl)phthalate	380	UJ	380	UJ	400	UJ	400	UJ	380	UJ
Di-n-octylphthalate	380	UJ	380	UJ	400	UJ	400	UJ	380	UJ
Benzo(b)fluoranthene	380	U	380	U	400	U	400	U	380	U
Benzo(k)fluoranthene	380	U	380	U	400	U	400	U	380	U
Benzo(a)pyrene	380	U	380	U	400	U	400	U	380	U
Indeno(1,2,3-cd)pyrene	380	U	380	U	400	U	400	U	380	U
Dibenzo(a,h)anthracene	380	U	380	U	400	U	400	U	380	U
Benzo(g,h,i)perylene	380	U	380	U	400	U	400	U	380	U

Analytical Results (Qualified Data)

Case #: 30572 SDG : E1YM9 A
Site : ABBOTSFORD PCE
Lab. : ENVSYSTEMS
Reviewer : S. Tobin
Date : 07/15/2002

	Background						Lab QC		Lab QC	
Sample Number :	E1YN7		E1YN8		E1YN9		E1YN9MS		E1YN9MSD	
Sampling Location :	SS-4B		SS-6A		SS-7A		SS-7A		SS-7A	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	06/06/2002		06/05/2002		06/05/2002		06/05/2002		06/05/2002	
Time Sampled :	16:35		17:20		13:23		13:23		13:23	
%Moisture :	21		19		13		13		13	
pH :	7.4		7.0		6.2		6.2		6.2	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	420	UJ	410	UJ	380	UJ	380	UJ	380	UJ
Phenol	420	U	410	U	380	U	1600		1700	
bis-(2-Chloroethyl) ether	420	U	410	U	380	U	380	U	380	U
2-Chlorophenol	420	U	410	U	380	U	1700		1700	
2-Methylphenol	420	U	410	U	380	U	380	U	380	U
2,2'-oxybis(1-Chloropropane)	420	U	410	U	380	U	380	U	380	U
Acetophenone	420	U	410	U	380	U	380	U	380	U
4-Methylphenol	420	U	410	U	380	U	380	U	380	U
N-Nitroso-di-n-propylamine	420	U	410	U	380	U	850		900	
Hexachloroethane	420	U	410	U	380	U	380	U	380	U
Nitrobenzene	420	U	410	U	380	U	380	U	380	U
Isophorone	420	U	410	U	380	U	380	U	380	U
2-Nitrophenol	420	U	410	U	380	U	380	U	380	U
2,4-Dimethylphenol	420	U	410	U	380	U	380	U	380	U
bis(2-Chloroethoxy)methane	420	U	410	U	380	U	380	U	380	U
2,4-Dichlorophenol	420	U	410	U	380	U	380	U	380	U
Naphthalene	420	U	410	U	380	U	380	U	380	U
4-Chloroaniline	420	U	410	U	380	U	380	U	380	U
Hexachlorobutadiene	420	U	410	U	380	U	380	U	380	U
Caprolactam	420	U	410	U	380	U	380	U	380	U
4-Chloro-3-methylphenol	420	U	410	U	380	U	1800		1900	
2-Methylnaphthalene	420	U	410	U	380	U	380	U	380	U
Hexachlorocyclopentadiene	420	UJ	410	UJ	380	UJ	380	UJ	380	UJ
2,4,6-Trichlorophenol	420	U	410	U	380	U	380	U	380	U
2,4,5-Trichlorophenol	1100	U	1000	U	950	U	950	U	950	U
1,1'-Biphenyl	420	U	410	U	380	U	380	U	380	U
2-Chloronaphthalene	420	U	410	U	380	U	380	U	380	U
2-Nitroaniline	1100	U	1000	U	950	U	950	U	950	U
Dimethylphthalate	420	U	410	U	380	U	380	U	380	U
2,6-Dinitrotoluene	420	U	410	U	380	U	380	U	380	U
Acenaphthylene	420	U	410	U	380	U	380	U	380	U
3-Nitroaniline	1100	U	1000	U	950	U	950	U	950	U
Acenaphthene	420	U	410	U	380	U	1100		1200	

Analytical Results (Qualified Data)

Case #: 30572 SDG : E1YM9 B
Site : ABBOTSFORD PCE
Lab. : ENVSYSTEMS
Reviewer : S. Tobin
Date : 07/15/2002

	Background						Lab QC		Lab QC	
Sample Number :	E1YN7		E1YN8		E1YN9		E1YN9MS		E1YN9MSD	
Sampling Location :	SS-4B		SS-6A		SS-7A		SS-7A		SS-7A	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	06/06/2002		06/05/2002		06/05/2002		06/05/2002		06/05/2002	
Time Sampled :	16:35		17:20		13:23		13:23		13:23	
%Moisture :	21		19		13		13		13	
pH :	7.4		7.0		6.2		6.2		6.2	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	1100	R	1000	R	950	R	950	R	950	R
4-Nitrophenol	1100	U	1000	U	950	U	2100		2300	
Dibenzofuran	420	U	410	U	380	U	380	U	380	U
2,4-Dinitrotoluene	420	U	410	U	380	U	1100		1200	
Diethylphthalate	420	U	410	U	380	U	380	U	380	U
Fluorene	420	U	410	U	380	U	380	U	380	U
4-Chlorophenyl-phenyl ether	420	U	410	U	380	U	380	U	380	U
4-Nitroaniline	1100	U	1000	U	950	U	950	U	950	U
4,6-Dinitro-2-methylphenol	1100	UJ	1000	UJ	950	UJ	950	UJ	950	UJ
N-Nitrosodiphenylamine	420	U	410	U	380	U	380	U	380	U
4-Bromophenyl-phenylether	420	U	410	U	380	U	380	U	380	U
Hexachlorobenzene	420	U	410	U	380	U	380	U	380	U
Atrazine	420	U	410	U	380	U	380	U	380	U
Pentachlorophenol	1100	UJ	1000	UJ	950	UJ	1900	J	2200	J
Phenanthrene	420	U	410	U	380	U	380	U	380	U
Anthracene	420	U	410	U	380	U	380	U	380	U
Carbazole	420	U	410	U	380	U	380	U	380	U
Di-n-butylphthalate	420	U	410	U	380	U	380	U	380	U
Fluoranthene	420	U	410	U	380	U	380	U	380	U
Pyrene	420	U	410	U	380	U	1400		1400	
Butylbenzylphthalate	420	UJ	410	UJ	380	UJ	380	UJ	380	UJ
3,3'-Dichlorobenzidine	420	UJ	410	UJ	380	UJ	380	UJ	380	UJ
Benzo(a)anthracene	420	U	410	U	380	U	380	U	380	U
Chrysene	420	U	410	U	380	U	380	U	380	U
bis(2-Ethylhexyl)phthalate	420	UJ	410	UJ	380	UJ	380	UJ	380	UJ
Di-n-octylphthalate	420	UJ	410	UJ	380	UJ	380	UJ	380	UJ
Benzo(b)fluoranthene	420	U	410	U	380	U	380	U	380	U
Benzo(k)fluoranthene	420	U	410	U	380	U	380	U	380	U
Benzo(a)pyrene	420	U	410	U	380	U	380	U	380	U
Indeno(1,2,3-cd)pyrene	420	U	410	U	380	U	380	U	380	U
Dibenzo(a,h)anthracene	420	U	410	U	380	U	380	U	380	U
Benzo(g,h,i)perylene	420	U	410	U	380	U	380	U	380	U

Analytical Results (Qualified Data)

Case #: 30572 SDG : E1YM9 A
Site : ABBOTSFORD PCE
Lab. : ENVSYSTEMS
Reviewer : S. Tobin
Date : 07/15/2002 Field duplicate of SS-~~8A~~ 3B Lab blank

Sample Number :	E1YP0		E1YP1		SBLK23					
Sampling Location :	SS-8A		SS-8B							
Matrix :	Soil		Soil		Soil					
Units :	ug/Kg		ug/Kg		ug/Kg					
Date Sampled :	06/03/2002		06/05/2002							
Time Sampled :	12:05		10:40							
%Moisture :	13		15		N/A					
pH :	7.5		7.5							
Dilution Factor :	1.0		1.0		1.0					
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	380	UJ	390	UJ	200	J				
Phenol	380	U	390	U	330	U				
bis-(2-Chloroethyl) ether	380	U	390	U	330	U				
2-Chlorophenol	380	U	390	U	330	U				
2-Methylphenol	380	U	390	U	330	U				
2,2'-oxybis(1-Chloropropane)	380	U	390	U	330	U				
Acetophenone	380	U	390	U	330	U				
4-Methylphenol	380	U	390	U	330	U				
N-Nitroso-di-n-propylamine	380	U	390	U	330	U				
Hexachloroethane	380	U	390	U	330	U				
Nitrobenzene	380	U	390	U	330	U				
Isophorone	380	U	390	U	330	U				
2-Nitrophenol	380	U	390	U	330	U				
2,4-Dimethylphenol	380	U	390	U	330	U				
bis(2-Chloroethoxy)methane	380	U	390	U	330	U				
2,4-Dichlorophenol	380	U	390	U	330	U				
Naphthalene	380	U	390	U	330	U				
4-Chloroaniline	380	U	390	U	330	U				
Hexachlorobutadiene	380	U	390	U	330	U				
Caprolactam	380	U	390	U	330	U				
4-Chloro-3-methylphenol	380	U	390	U	330	U				
2-Methylnaphthalene	380	U	390	U	330	U				
Hexachlorocyclopentadiene	380	UJ	390	UJ	330	UJ				
2,4,6-Trichlorophenol	380	U	390	U	330	U				
2,4,5-Trichlorophenol	950	U	980	U	830	U				
1,1'-Biphenyl	380	U	390	U	330	U				
2-Chloronaphthalene	380	U	390	U	330	U				
2-Nitroaniline	950	U	980	U	830	U				
Dimethylphthalate	380	U	390	U	330	U				
2,6-Dinitrotoluene	380	U	390	U	330	U				
Acenaphthylene	380	U	390	U	330	U				
3-Nitroaniline	950	U	980	U	830	U				
Acenaphthene	380	U	390	U	330	U				

Analytical Results (Qualified Data)

Case #: 30572 SDG : E1YM9 B
Site : ABBOTSFORD PCE
Lab. : ENVSYSTEMS
Reviewer : S. Tobin
Date : 07/15/2002 Field duplicate of SS-~~8A~~ 8B Lab blank

Sample Number :	E1YP0		E1YP1		SBLK23					
Sampling Location :	SS-8A		SS-8B							
Matrix :	Soil		Soil		Soil					
Units :	ug/Kg		ug/Kg		ug/Kg					
Date Sampled :	06/03/2002		06/05/2002							
Time Sampled :	12:05		10:40							
%Moisture :	13		15		N/A					
pH :	7.5		7.5							
Dilution Factor :	1.0		1.0		1.0					
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	950	R	980	R	830	R				
4-Nitrophenol	950	U	980	U	830	U				
Dibenzofuran	380	U	390	U	330	U				
2,4-Dinitrotoluene	380	U	390	U	330	U				
Diethylphthalate	380	U	390	U	52	J				
Fluorene	380	U	390	U	330	U				
4-Chlorophenyl-phenyl ether	380	U	390	U	330	U				
4-Nitroaniline	950	U	980	U	830	U				
4,6-Dinitro-2-methylphenol	950	UJ	980	UJ	830	UJ				
N-Nitrosodiphenylamine	380	U	390	U	330	U				
4-Bromophenyl-phenylether	380	U	390	U	330	U				
Hexachlorobenzene	380	U	390	U	330	U				
Atrazine	380	U	390	U	330	U				
Pentachlorophenol	950	UJ	980	UJ	830	UJ				
Phenanthrene	380	U	390	U	330	U				
Anthracene	380	U	390	U	330	U				
Carbazole	380	U	390	U	330	U				
Di-n-butylphthalate	380	U	390	U	330	U				
Fluoranthene	380	U	390	U	330	U				
Pyrene	380	U	390	U	330	U				
Butylbenzylphthalate	380	UJ	390	UJ	330	UJ				
3,3'-Dichlorobenzidine	380	UJ	390	UJ	330	UJ				
Benzo(a)anthracene	380	U	390	U	330	U				
Chrysene	380	U	390	U	330	U				
bis(2-Ethylhexyl)phthalate	380	UJ	390	UJ	51	J				
Di-n-octylphthalate	380	UJ	390	UJ	330	UJ				
Benzo(b)fluoranthene	380	U	390	U	330	U				
Benzo(k)fluoranthene	380	U	390	U	330	U				
Benzo(a)pyrene	380	U	390	U	330	U				
Indeno(1,2,3-cd)pyrene	380	U	390	U	330	U				
Dibenzo(a,h)anthracene	380	U	390	U	330	U				
Benzo(g,h,i)perylene	380	U	390	U	330	U				

Analytical Results (Qualified Data)

Case #: 30572 SDG : E1YM9
Site : ABBOTSFORD PCE
Lab. : ENVSYSTEMS
Reviewer : S. Tobin
Date : 07/15/2002

Number of Soil Samples : 10
Number of Water Samples : 0

Sample Number :	E1YM9		E1YN1		E1YN3		E1YN5		E1YN6	
Sampling Location :	SS-1A		SS-5A		SS-2B		SS-3B		SS-4A	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	06/03/2002		06/03/2002		06/06/2002		06/05/2002		06/06/2002	
Time Sampled :	14:37		12:05		11:25		10:30		15:20	
%Moisture :	13		12		18		18		12	
pH :	7.1		7.4		7.6		7.6		7.7	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	2.0	U	1.9	U	2.1	U	2.1	U	1.9	U
beta-BHC	2.0	U	1.9	U	2.1	U	2.1	U	1.9	U
delta-BHC	2.0	U	1.9	U	2.1	U	2.1	U	1.9	U
gamma-BHC (Lindane)	2.0	U	1.9	U	2.1	U	2.1	U	1.9	U
Heptachlor	2.0	U	1.9	U	2.1	U	2.1	U	1.9	U
Aldrin	2.0	U	1.9	U	2.1	U	2.1	U	1.9	U
Heptachlor epoxide	2.0	U	1.9	U	2.1	U	2.1	U	1.9	U
Endosulfan I	2.0	U	1.9	U	2.1	U	2.1	U	1.9	U
Dieldrin	3.8	U	3.8	U	4.0	U	4.0	U	3.8	U
4,4'-DDE	3.8	U	3.8	U	4.0	U	4.0	U	3.8	U
Endrin	3.8	U	3.8	U	4.0	U	4.0	U	3.8	U
Endosulfan II	3.8	U	3.8	U	4.0	U	4.0	U	3.8	U
4,4'-DDD	3.8	U	3.8	U	4.0	U	4.0	U	3.8	U
Endosulfan sulfate	3.8	U	3.8	U	4.0	U	4.0	U	3.8	U
4,4'-DDT	3.8	U	3.8	U	4.0	U	4.0	U	3.8	U
Methoxychlor	20	U	19	U	21	U	21	U	19	U
Endrin ketone	3.8	U	3.8	U	4.0	U	4.0	U	3.8	U
Endrin aldehyde	3.8	U	3.8	U	4.0	U	4.0	U	3.8	U
alpha-Chlordane	2.0	U	1.9	U	2.1	U	2.1	U	1.9	U
gamma-Chlordane	2.0	U	1.9	U	2.1	U	2.1	U	1.9	U
Toxaphene	200	U	190	U	210	U	210	U	190	U
Aroclor-1016	38	U	38	U	40	U	40	U	38	U
Aroclor-1221	77	U	76	U	82	U	82	U	76	U
Aroclor-1232	38	U	38	U	40	U	40	U	38	U
Aroclor-1242	38	U	38	U	40	U	40	U	38	U
Aroclor-1248	38	U	38	U	40	U	40	U	38	U
Aroclor-1254	38	U	38	U	40	U	40	U	38	U
Aroclor-1260	38	U	38	U	40	U	40	U	38	U

Analytical Results (Qualified Data)

Case #: 30572 SDG : E1YM9
Site : ABBOTSFORD PCE
Lab. : ENVSYSTEMS
Reviewer : S. Tobin
Date : 07/15/2002

	Background						Lab QC		Lab QC	
Sample Number :	E1YN7		E1YN8		E1YN9		E1YN9MS		E1YN9MSD	
Sampling Location :	SS-4B		SS-6A		SS-7A		SS-7A		SS-7A	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	06/06/2002		06/05/2002		06/05/2002		06/05/2002		06/05/2002	
Time Sampled :	16:35		17:20		13:23		13:23		13:23	
%Moisture :	21		19		13		13		13	
pH :	7.4		7.0		6.2		6.2		6.2	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	2.2	U	2.1	U	2.0	U	2.0	U	2.0	U
beta-BHC	2.2	U	2.1	U	2.0	U	2.0	U	2.0	U
delta-BHC	2.2	U	2.1	U	2.0	U	2.0	U	2.0	U
gamma-BHC (Lindane)	2.2	U	2.1	U	2.0	U	13		15	
Heptachlor	2.2	U	2.1	U	2.0	U	14		15	
Aldrin	2.2	U	2.1	U	2.0	U	15		16	
Heptachlor epoxide	2.2	U	2.1	U	2.0	U	2.0	U	2.0	U
Endosulfan I	2.2	U	2.1	U	2.0	U	2.0	U	2.0	U
Dieldrin	4.2	U	4.1	U	3.8	U	29		31	
4,4'-DDE	4.2	U	4.1	U	3.8	U	3.8	U	3.8	U
Endrin	4.2	U	4.1	U	3.8	U	33		35	
Endosulfan II	4.2	U	4.1	U	3.8	U	3.8	U	3.8	U
4,4'-DDD	4.2	U	4.1	U	3.8	U	3.8	U	3.8	U
Endosulfan sulfate	4.2	U	4.1	U	3.8	U	3.8	U	3.8	U
4,4'-DDT	4.2	U	4.1	U	3.8	U	28		31	
Methoxychlor	22	U	21	U	20	U	20	U	20	U
Endrin ketone	4.2	U	4.1	U	3.8	U	3.8	U	3.8	U
Endrin aldehyde	4.2	U	4.1	U	3.8	U	3.8	U	3.8	U
alpha-Chlordane	2.2	U	2.1	U	2.0	U	2.0	U	2.0	U
gamma-Chlordane	2.2	U	2.1	U	2.0	U	2.0	U	2.0	U
Toxaphene	220	U	210	U	200	U	200	U	200	U
Aroclor-1016	42	U	41	U	38	U	38	U	38	U
Aroclor-1221	85	U	83	U	77	U	77	U	77	U
Aroclor-1232	42	U	41	U	38	U	38	U	38	U
Aroclor-1242	42	U	41	U	38	U	38	U	38	U
Aroclor-1248	42	U	41	U	38	U	38	U	38	U
Aroclor-1254	42	U	41	U	38	U	38	U	38	U
Aroclor-1260	42	U	41	U	38	U	38	U	38	U

Analytical Results (Qualified Data)

Case #: 30572 SDG : E1YM9
Site : ABBOTSFORD PCE
Lab. : ENVSYSTEMS
Reviewer : S. Tobin
Date : 07/15/2002

Sample Number :	E1YP0		E1YP1		PBLK05					
Sampling Location :	SS-8A		SS-8B							
Matrix :	Soil		Soil		Soil					
Units :	ug/Kg		ug/Kg		ug/Kg					
Date Sampled :	06/03/2002		06/05/2002							
Time Sampled :	12:05		10:40							
%Moisture :	13		15		N/A					
pH :	7.5		7.5		6.0					
Dilution Factor :	1.0		1.0		1.0					
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	2.0	U	2.0	U	1.7	U				
beta-BHC	2.0	U	2.0	U	1.7	U				
delta-BHC	2.0	U	2.0	U	1.7	U				
gamma-BHC (Lindane)	2.0	U	2.0	U	1.7	U				
Heptachlor	2.0	U	2.0	U	1.7	U				
Aldrin	2.0	U	2.0	U	1.7	U				
Heptachlor epoxide	2.0	U	2.0	U	1.7	U				
Endosulfan I	2.0	U	2.0	U	1.7	U				
Dieldrin	3.8	U	3.9	U	3.3	U				
4,4'-DDE	3.8	U	3.9	U	3.3	U				
Endrin	3.8	U	3.9	U	3.3	U				
Endosulfan II	3.8	U	3.9	U	3.3	U				
4,4'-DDD	3.8	U	3.9	U	3.3	U				
Endosulfan sulfate	3.8	U	3.9	U	3.3	U				
4,4'-DDT	3.8	U	3.9	U	3.3	U				
Methoxychlor	20	U	20	U	17	U				
Endrin ketone	3.8	U	3.9	U	3.3	U				
Endrin aldehyde	3.8	U	3.9	U	3.3	U				
alpha-Chlordane	2.0	U	2.0	U	1.7	U				
gamma-Chlordane	2.0	U	2.0	U	1.7	U				
Toxaphene	200	U	200	U	170	U				
Aroclor-1016	38	U	39	U	33	U				
Aroclor-1221	77	U	79	U	67	U				
Aroclor-1232	38	U	39	U	33	U				
Aroclor-1242	38	U	39	U	33	U				
Aroclor-1248	38	U	39	U	33	U				
Aroclor-1254	38	U	39	U	33	U				
Aroclor-1260	38	U	39	U	33	U				

Field duplicate of SS-~~8A~~ 8B

Lan blank

Case #: 30650 SDG : E1YS7
Site : ABBOTSFORD PCE Number of Soil Samples : 0
Lab. : MITKEM Number of Water Samples : 11
Reviewer :
Date :

	Background						Rinsate blank		Trip blank	
Sample Number :	E1YS7		E1YS8		E1YS9		E1YT0		E1YT1	
Sampling Location :	B-4A		MW-14		MW-15		MW-17		MW-18	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chloromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Vinyl Chloride	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromomethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Trichlorofluoromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Acetone	5	U	5	U	5	U	20		33	
Carbon Disulfide	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Methyl Acetate	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Methylene Chloride	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ
trans-1,2-Dichloroethene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
tert-Butyl Methyl Ether	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
cis-1,2-Dichloroethene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
2-Butanone	5	U	5	U	5	U	8		10	
Bromochloromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chloroform	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,1-Trichloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Cyclohexane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Carbon Tetrachloride	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Benzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Trichloroethene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Methylcyclohexane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichloropropane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromodichloromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
cis-1,3-Dichloropropene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
4-Methyl-2-pentanone	5	U	5	U	5	U	5	U	5	U
Toluene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
trans-1,3-Dichloropropene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2-Trichloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U

Analytical Results (Qualified Data)

Case #: 30650
SDG : E1YS7
Site : ABBOTSFORD PCE
Lab. : MITKEM
Reviewer :
Date :

	Background						Rinsate blank		Trip blank	
Sample Number :	E1YS7		E1YS8		E1YS9		E1YT0		E1YT1	
Sampling Location :	B-4A		MW-14		MW-15		MW-17		MW-18	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Tetrachloroethene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
2-Hexanone	5	U	5	U	5	U	5	U	5	U
Dibromochloromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dibromoethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Ethylbenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Xylenes (total)	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Styrene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromoform	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Isopropylbenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2,2-Tetrachloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,3-Dichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,4-Dichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dibromo-3-chloropropane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2,4-Trichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2,3-Trichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U

Analytical Results (Qualified Data)

Case #: 30650
SDG : E1YS7
Site : ABBOTSFORD PCE
Lab. : MITKEM
Reviewer :
Date :

			Lab QC		Lab QC				Field duplicate of MW-16A	
Sample Number :	E1YT2		E1YT2MS		E1YT2MSD		E1YT3		E1YT4	
Sampling Location :	PZ-14A		PZ-14A		PZ-14A		PZ-15A		PZ-17A	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chloromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Vinyl Chloride	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromomethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Trichlorofluoromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethene	0.5	U	5		5		0.5	U	0.5	U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Acetone	5	U	5	U	5	U	5	U	5	U
Carbon Disulfide	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Methyl Acetate	0.5	U	0.5	UJ	0.5	UJ	0.5	U	0.5	U
Methylene Chloride	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ
trans-1,2-Dichloroethene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
tert-Butyl Methyl Ether	0.5	U	0.5	UJ	0.5	UJ	0.5	U	0.5	U
1,1-Dichloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
cis-1,2-Dichloroethene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
2-Butanone	5	U	5	U	5	U	5	U	5	U
Bromochloromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chloroform	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,1-Trichloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Cyclohexane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Carbon Tetrachloride	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Benzene	0.5	U	6		6		0.5	U	0.5	U
1,2-Dichloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Trichloroethene	0.5	U	5		5		0.5	U	0.5	U
Methylcyclohexane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichloropropane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromodichloromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
cis-1,3-Dichloropropene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
4-Methyl-2-pentanone	5	U	5	U	5	U	5	U	5	U
Toluene	0.5	U	6		5		0.5	U	0.5	U
trans-1,3-Dichloropropene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2-Trichloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U

Case #: 30650 SDG : E1YS7
Site : ABBOTSFORD PCE
Lab. : MITKEM
Reviewer :
Date :

			Lab QC		Lab QC				Field duplicate of MW-16A	
Sample Number :	E1YT2		E1YT2MS		E1YT2MSD		E1YT3		E1YT4	
Sampling Location :	PZ-14A		PZ-14A		PZ-14A		PZ-15A		PZ-17A	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Tetrachloroethene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
2-Hexanone	5	U	5	U	5	U	5	U	5	U
Dibromochloromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dibromoethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chlorobenzene	0.5	U	5		5		0.5	U	0.5	U
Ethylbenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Xylenes (total)	0.5	U	0.5	U	0.5	U	2		2	
Styrene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromoform	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Isopropylbenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2,2-Tetrachloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,3-Dichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,4-Dichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dibromo-3-chloropropane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2,4-Trichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2,3-Trichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U

Case #: 30650 SDG : E1YS7
Site : ABBOTSFORD PCE
Lab. : MITKEM
Reviewer :
Date :

					Trip blank		Lab blank		Lab blank	
Sample Number :	E1YT5		E1YT6		E1YT7		VBLK2S		VBLK2U	
Sampling Location :	MW-16		MW-16A		MW-19					
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :					06/25/2002					
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chloromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Vinyl Chloride	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromomethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Trichlorofluoromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Acetone	5	U	8	U	22		5	U	5	U
Carbon Disulfide	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Methyl Acetate	0.5	U	0.5	U	0.5	U	0.5	U	0.5	UJ
Methylene Chloride	0.5	UJ	0.5	UJ	0.5	UJ	0.5	J	0.5	UJ
trans-1,2-Dichloroethene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
tert-Butyl Methyl Ether	0.5	U	0.5	U	0.5	U	0.5	U	0.5	UJ
1,1-Dichloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
cis-1,2-Dichloroethene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
2-Butanone	5	U	5	U	5	U	5	U	5	U
Bromochloromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chloroform	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,1-Trichloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Cyclohexane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Carbon Tetrachloride	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Benzene	0.5	U	0.7		0.5	U	0.5	U	0.5	U
1,2-Dichloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Trichloroethene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Methylcyclohexane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichloropropane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromodichloromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
cis-1,3-Dichloropropene	0.5	UJ	0.5	U	0.5	U	0.5	U	0.5	U
4-Methyl-2-pentanone	5	U	5	U	5	U	5	U	5	U
Toluene	0.5	U	0.6		0.5	U	0.5	U	0.5	U
trans-1,3-Dichloropropene	0.5	UJ	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2-Trichloroethane	0.5	UJ	0.5	U	0.5	U	0.5	U	0.5	U

Case #: 30650 SDG : E1YS7
Site : ABBOTSFORD PCE
Lab. : MITKEM
Reviewer :
Date :

					Trip blank		Lab blank		Lab blank	
Sample Number :	E1YT5		E1YT6		E1YT7		VBLK2S		VBLK2U	
Sampling Location :	MW-16		MW-16A		MW-19					
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :					06/25/2002					
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Tetrachloroethene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
2-Hexanone	5	U	5	U	5	U	5	U	5	U
Dibromochloromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dibromoethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Ethylbenzene	0.5	U	32		0.5	U	0.5	U	0.5	U
Xylenes (total)	0.5	U	11		0.5	U	0.5	U	0.5	U
Styrene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromoform	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Isopropylbenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2,2-Tetrachloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,3-Dichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,4-Dichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dibromo-3-chloropropane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2,4-Trichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2,3-Trichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U

Case #: 30650
Site :
Lab. :
Reviewer :
Date :

SDG : E1YS7
ABBOTSFORD PCE
MITKEM

Lab blank

Sample Number :	VHBLK2U									
Sampling Location :										
Matrix :	Water									
Units :	ug/L									
Date Sampled :										
Time Sampled :										
%Moisture :	N/A									
pH :										
Dilution Factor :	1.0									
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.5	U								
Chloromethane	0.5	U								
Vinyl Chloride	0.5	U								
Bromomethane	0.5	U								
Chloroethane	0.5	U								
Trichlorofluoromethane	0.5	U								
1,1-Dichloroethene	0.5	U								
1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U								
Acetone	5	U								
Carbon Disulfide	0.5	U								
Methyl Acetate	0.5	UJ								
Methylene Chloride	0.5	UJ								
trans-1,2-Dichloroethene	0.5	U								
tert-Butyl Methyl Ether	0.5	UJ								
1,1-Dichloroethane	0.5	U								
cis-1,2-Dichloroethene	0.5	U								
2-Butanone	5	U								
Bromochloromethane	0.5	U								
Chloroform	0.5	U								
1,1,1-Trichloroethane	0.5	U								
Cyclohexane	0.5	U								
Carbon Tetrachloride	0.5	U								
Benzene	0.5	U								
1,2-Dichloroethane	0.5	U								
Trichloroethene	0.5	U								
Methylcyclohexane	0.5	U								
1,2-Dichloropropane	0.5	U								
Bromodichloromethane	0.5	U								
cis-1,3-Dichloropropene	0.5	U								
4-Methyl-2-pentanone	5	U								
Toluene	0.5	U								
trans-1,3-Dichloropropene	0.5	U								
1,1,2-Trichloroethane	0.5	U								

Case #: 30650 SDG : E1YS7
Site : ABBOTSFORD PCE
Lab. : MITKEM
Reviewer :
Date :

Lab blank

Sample Number :	VHBLK2U									
Sampling Location :										
Matrix :	Water									
Units :	ug/L									
Date Sampled :										
Time Sampled :										
%Moisture :	N/A									
pH :										
Dilution Factor :	1.0									
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Tetrachloroethene	0.5	U								
2-Hexanone	5	U								
Dibromochloromethane	0.5	U								
1,2-Dibromoethane	0.5	U								
Chlorobenzene	0.5	U								
Ethylbenzene	0.5	U								
Xylenes (total)	0.5	U								
Styrene	0.5	U								
Bromoform	0.5	U								
Isopropylbenzene	0.5	U								
1,1,2,2-Tetrachloroethane	0.5	U								
1,3-Dichlorobenzene	0.5	U								
1,4-Dichlorobenzene	0.5	U								
1,2-Dichlorobenzene	0.5	U								
1,2-Dibromo-3-chloropropane	0.5	U								
1,2,4-Trichlorobenzene	0.5	U								
1,2,3-Trichlorobenzene	0.5	U								

Case #: 30650 SDG : E1YS7
Site : ABBOTSFORD PCE Number of Soil Samples : 0
Lab. : MITKEM Number of Water Samples : 9
Reviewer :
Date :

	Background						Rinsate blank			
Sample Number :	E1YS7		E1YS8		E1YS9		E1YT0		E1YT2	
Sampling Location :	B-4A		MW-14		MW-15		MW-17		PZ-14A	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	5	U	5	U	5	U	5	U	5	U
Phenol	5	U	5	U	5	U	5	U	5	U
bis-(2-Chloroethyl) ether	5	U	5	U	5	U	5	U	5	U
2-Chlorophenol	5	U	5	U	5	U	5	U	5	U
2-Methylphenol	5	U	5	U	5	U	5	U	5	U
2,2'-oxybis(1-Chloropropane)	5	U	5	U	5	U	5	U	5	U
Acetophenone	5	U	5	U	5	U	1	J	5	U
4-Methylphenol	5	U	5	U	5	U	5	U	5	U
N-Nitroso-di-n-propylamine	5	U	5	U	5	U	5	U	5	U
Hexachloroethane	5	UJ	5	UJ	5	UJ	5	U	5	U
Nitrobenzene	5	U	5	U	5	U	5	U	5	U
Isophorone	5	UJ	5	UJ	5	UJ	5	U	5	U
2-Nitrophenol	5	U	5	U	5	U	5	U	5	U
2,4-Dimethylphenol	5	U	5	U	5	U	5	U	5	U
bis(2-Chloroethoxy)methane	5	U	5	U	5	U	5	U	5	U
2,4-Dichlorophenol	5	U	5	U	5	U	5	U	5	U
Naphthalene	5	U	5	U	5	U	5	U	5	U
4-Chloroaniline	5	U	5	U	5	UJ	5	U	5	U
Hexachlorobutadiene	5	U	5	U	5	U	5	U	5	U
Caprolactam	5	U	5	U	5	U	5	U	5	U
4-Chloro-3-methylphenol	5	U	5	U	5	U	5	U	5	U
2-Methylnaphthalene	5	U	5	U	5	U	5	U	5	U
Hexachlorocyclopentadiene	5	U	5	U	5	UJ	5	U	5	U
2,4,6-Trichlorophenol	5	U	5	U	5	U	5	U	5	U
2,4,5-Trichlorophenol	20	U	20	U	20	U	20	U	20	U
1,1'-Biphenyl	5	U	5	U	5	U	5	U	5	U
2-Chloronaphthalene	5	U	5	U	5	U	5	U	5	U
2-Nitroaniline	20	U	20	U	20	U	20	U	20	U
Dimethylphthalate	5	U	5	U	5	U	5	U	5	U
2,6-Dinitrotoluene	5	U	5	U	5	U	5	U	5	U
Acenaphthylene	5	U	5	U	5	U	5	U	5	U
3-Nitroaniline	20	U	20	U	20	U	20	U	20	U
Acenaphthene	5	U	5	U	5	U	5	U	5	U

Case #: 30650 SDG : E1YS7
Site : ABBOTSFORD PCE
Lab. : MITKEM
Reviewer :
Date :

	Background						Rinsate blank			
Sample Number :	E1YS7		E1YS8		E1YS9		E1YT0		E1YT2	
Sampling Location :	B-4A		MW-14		MW-15		MW-17		PZ-14A	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	20	U	20	U	20	U	20	U	20	U
4-Nitrophenol	20	U	20	U	20	U	20	U	20	U
Dibenzofuran	5	U	5	U	5	U	5	U	5	U
2,4-Dinitrotoluene	5	U	5	U	5	U	5	U	5	U
Diethylphthalate	5	U	5	U	5	U	5	U	5	U
Fluorene	5	U	5	U	5	U	5	U	5	U
4-Chlorophenyl-phenyl ether	5	U	5	U	5	U	5	U	5	U
4-Nitroaniline	20	U	20	U	20	U	20	U	20	U
4,6-Dinitro-2-methylphenol	20	U	20	U	20	U	20	U	20	U
N-Nitrosodiphenylamine	5	U	5	U	5	U	5	U	5	U
1,2,4,5-Tetrachlorobenzene	5	U	5	U	5	U	5	U	5	U
4-Bromophenyl-phenylether	5	U	5	U	5	U	5	U	5	U
Hexachlorobenzene	5	UJ	5	UJ	5	UJ	5	U	5	U
Atrazine	5	U	5	UJ	5	U	5	U	5	U
Pentachlorophenol	5	U	5	U	5	U	5	U	5	U
Phenanthrene	5	U	5	UJ	5	U	5	U	5	U
Anthracene	5	U	5	U	5	U	5	U	5	U
Di-n-butylphthalate	5	UJ	5	UJ	5	UJ	5	U	5	U
Fluoranthene	5	U	5	U	5	U	5	U	5	U
Pyrene	5	U	5	U	5	U	5	U	5	U
Butylbenzylphthalate	5	U	5	U	5	U	5	U	5	U
3,3'-Dichlorobenzidine	5	U	5	U	5	UJ	5	U	5	U
Benzo(a)anthracene	5	U	5	U	5	U	5	U	5	U
Chrysene	5	U	5	U	5	U	5	U	5	U
bis(2-Ethylhexyl)phthalate	5	U	5	U	5	U	5	U	5	U
Di-n-octylphthalate	5	U	5	U	5	U	5	U	5	U
Benzo(b)fluoranthene	5	U	5	UJ	5	U	5	U	5	U
Benzo(k)fluoranthene	5	U	5	UJ	5	U	5	U	5	U
Benzo(a)pyrene	5	U	5	UJ	5	U	5	U	5	U
Indeno(1,2,3-cd)pyrene	5	U	5	UJ	5	U	5	U	5	U
Dibenzo(a,h)anthracene	5	U	5	UJ	5	U	5	U	5	U
Benzo(g,h,i)perylene	5	U	5	UJ	5	U	5	U	5	U

Case #: 30650 SDG : E1YS7
Site : ABBOTSFORD PCE
Lab. : MITKEM
Reviewer :
Date :

	Lab QC		Lab QC				Field duplicate of MW-16A			
Sample Number :	E1YT2MS		E1YT2MSD		E1YT3		E1YT4		E1YT5	
Sampling Location :	PZ-14A		PZ-14A		PZ-15A		PZ-17A		MW-16	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	5	U	5	U	5	U	5	U	5	U
Phenol	47		35		5	U	5	U	5	U
bis-(2-Chloroethyl) ether	5	U	5	U	5	U	5	U	5	U
2-Chlorophenol	47		36		5	U	5	U	5	U
2-Methylphenol	5	U	5	U	5	U	5	U	5	U
2,2'-oxybis(1-Chloropropane)	5	U	5	U	5	U	5	U	5	U
Acetophenone	5	U	5	U	5	U	5	U	5	U
4-Methylphenol	5	U	5	U	5	U	5	U	5	U
N-Nitroso-di-n-propylamine	18		13		5	U	5	U	5	U
Hexachloroethane	5	U	5	U	5	UJ	5	U	5	U
Nitrobenzene	5	U	5	U	5	U	5	U	5	U
Isophorone	5	U	5	U	5	UJ	5	U	5	U
2-Nitrophenol	5	U	5	U	5	U	5	U	5	U
2,4-Dimethylphenol	5	U	5	U	5	U	5	U	5	U
bis(2-Chloroethoxy)methane	5	U	5	U	5	U	5	U	5	U
2,4-Dichlorophenol	5	U	5	U	5	U	5	U	5	U
Naphthalene	5	U	5	U	5	U	5	U	5	U
4-Chloroaniline	5	U	5	U	5	U	5	U	5	R
Hexachlorobutadiene	5	U	5	U	5	U	5	U	5	U
Caprolactam	5	U	5	U	5	U	5	U	2	J
4-Chloro-3-methylphenol	52		38		5	U	5	U	5	U
2-Methylnaphthalene	5	U	5	U	5	U	5	U	5	U
Hexachlorocyclopentadiene	5	U	5	U	5	U	5	U	5	R
2,4,6-Trichlorophenol	5	U	5	U	5	U	5	U	5	U
2,4,5-Trichlorophenol	20	U	20	U	20	U	20	U	20	U
1,1'-Biphenyl	5	U	5	U	5	U	5	U	5	U
2-Chloronaphthalene	5	U	5	U	5	U	5	U	5	U
2-Nitroaniline	20	U	20	U	20	U	20	U	20	U
Dimethylphthalate	5	U	5	U	5	U	5	U	5	U
2,6-Dinitrotoluene	5	U	5	U	5	U	5	U	5	U
Acenaphthylene	5	U	5	U	5	U	5	U	5	U
3-Nitroaniline	20	U	20	U	20	U	20	U	20	U
Acenaphthene	17		13		5	U	5	U	5	U

Case #: 30650 SDG : E1YS7
Site : ABBOTSFORD PCE
Lab. : MITKEM
Reviewer :
Date :

	Lab QC		Lab QC				Field duplicate of MW-16A			
Sample Number :	E1YT2MS		E1YT2MSD		E1YT3		E1YT4		E1YT5	
Sampling Location :	PZ-14A		PZ-14A		PZ-15A		PZ-17A		MW-16	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	20	U	20	U	20	U	20	U	20	U
4-Nitrophenol	48		43		20	U	20	U	20	U
Dibenzofuran	5	U	5	U	5	U	5	U	5	U
2,4-Dinitrotoluene	18		16		5	U	5	U	5	U
Diethylphthalate	5	U	5	U	5	U	5	U	5	U
Fluorene	5	U	5	U	5	U	5	U	5	U
4-Chlorophenyl-phenyl ether	5	U	5	U	5	U	5	U	5	U
4-Nitroaniline	20	U	20	U	20	U	20	U	20	U
4,6-Dinitro-2-methylphenol	20	U	20	U	20	U	20	U	20	U
N-Nitrosodiphenylamine	5	U	5	U	5	U	5	U	5	U
1,2,4,5-Tetrachlorobenzene	5	U	5	U	5	U	5	U	5	U
4-Bromophenyl-phenylether	5	U	5	U	5	U	5	U	5	U
Hexachlorobenzene	5	U	5	U	5	UJ	5	U	5	UJ
Atrazine	5	U	5	U	5	U	5	U	5	UJ
Pentachlorophenol	68		62		5	U	5	U	5	U
Phenanthrene	5	U	5	U	5	U	5	U	5	UJ
Anthracene	5	U	5	U	5	U	5	U	5	UJ
Di-n-butylphthalate	5	U	5	U	5	UJ	5	U	5	U
Fluoranthene	5	U	5	U	5	U	5	U	5	U
Pyrene	19		17		5	U	5	U	5	U
Butylbenzylphthalate	5	U	5	U	5	U	5	U	5	U
3,3'-Dichlorobenzidine	5	U	5	U	5	U	5	U	5	R
Benzo(a)anthracene	5	U	5	U	5	U	5	U	5	U
Chrysene	5	U	5	U	5	U	5	U	5	U
bis(2-Ethylhexyl)phthalate	5	U	5	U	5	U	5	U	5	U
Di-n-octylphthalate	5	U	5	U	5	U	5	U	5	U
Benzo(b)fluoranthene	5	U	5	U	5	UJ	5	U	5	UJ
Benzo(k)fluoranthene	5	U	5	U	5	UJ	5	U	5	UJ
Benzo(a)pyrene	5	U	5	U	5	UJ	5	U	5	UJ
Indeno(1,2,3-cd)pyrene	5	U	5	U	5	UJ	5	U	5	UJ
Dibenzo(a,h)anthracene	5	U	5	U	5	UJ	5	U	5	UJ
Benzo(g,h,i)perylene	5	U	5	U	5	UJ	5	U	5	UJ

Case #: 30650 SDG : E1YS7
Site : ABBOTSFORD PCE
Lab. : MITKEM
Reviewer :
Date :

			Lab blank		Lab blank					
Sample Number :	E1YT6		SBLK1A		SBLK3D					
Sampling Location :	MW-16A									
Matrix :	Water		Water		Water					
Units :	ug/L		ug/L		ug/L					
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A		N/A					
pH :										
Dilution Factor :	1.0		1.0		1.0					
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	5	U	5	U	5	U				
Phenol	2	J	5	U	5	U				
bis-(2-Chloroethyl) ether	5	U	5	U	5	U				
2-Chlorophenol	5	U	5	U	5	U				
2-Methylphenol	5	U	5	U	5	U				
2,2'-oxybis(1-Chloropropane)	5	U	5	U	5	U				
Acetophenone	5	U	5	U	5	U				
4-Methylphenol	5	U	5	U	5	U				
N-Nitroso-di-n-propylamine	5	U	5	U	5	U				
Hexachloroethane	5	U	5	U	5	UJ				
Nitrobenzene	5	U	5	U	5	U				
Isophorone	5	U	5	U	5	UJ				
2-Nitrophenol	5	U	5	U	5	U				
2,4-Dimethylphenol	5	U	5	U	5	U				
bis(2-Chloroethoxy)methane	5	U	5	U	5	U				
2,4-Dichlorophenol	5	U	5	U	5	U				
Naphthalene	5	U	5	U	5	U				
4-Chloroaniline	5	R	5	U	5	U				
Hexachlorobutadiene	5	U	5	U	5	U				
Caprolactam	5	U	5	U	5	U				
4-Chloro-3-methylphenol	5	U	5	U	5	U				
2-Methylnaphthalene	5	U	5	U	5	U				
Hexachlorocyclopentadiene	5	R	5	U	5	U				
2,4,6-Trichlorophenol	5	U	5	U	5	U				
2,4,5-Trichlorophenol	20	U	20	U	20	U				
1,1'-Biphenyl	5	U	5	U	5	U				
2-Chloronaphthalene	5	U	5	U	5	U				
2-Nitroaniline	20	U	20	U	20	U				
Dimethylphthalate	5	U	5	U	5	U				
2,6-Dinitrotoluene	5	U	5	U	5	U				
Acenaphthylene	5	U	5	U	5	U				
3-Nitroaniline	20	U	20	U	20	U				
Acenaphthene	5	U	5	U	5	U				

Case #: 30650 SDG : E1YS7
Site : ABBOTSFORD PCE
Lab. : MITKEM
Reviewer :
Date :

			Lab blank		Lab blank					
Sample Number :	E1YT6		SBLK1A		SBLK3D					
Sampling Location :	MW-16A									
Matrix :	Water		Water		Water					
Units :	ug/L		ug/L		ug/L					
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A		N/A					
pH :										
Dilution Factor :	1.0		1.0		1.0					
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	20	U	20	U	20	U				
4-Nitrophenol	20	U	20	U	20	U				
Dibenzofuran	5	U	5	U	5	U				
2,4-Dinitrotoluene	5	U	5	U	5	U				
Diethylphthalate	1	J	5	U	5	U				
Fluorene	5	U	5	U	5	U				
4-Chlorophenyl-phenyl ether	5	U	5	U	5	U				
4-Nitroaniline	20	U	20	U	20	U				
4,6-Dinitro-2-methylphenol	20	U	20	U	20	U				
N-Nitrosodiphenylamine	5	U	5	U	5	U				
1,2,4,5-Tetrachlorobenzene	5	U	5	U	5	U				
4-Bromophenyl-phenylether	5	U	5	U	5	U				
Hexachlorobenzene	5	U	5	U	5	UJ				
Atrazine	5	U	5	U	5	U				
Pentachlorophenol	5	U	5	U	5	U				
Phenanthrene	5	U	5	U	5	U				
Anthracene	5	U	5	U	5	U				
Di-n-butylphthalate	5	U	5	U	5	UJ				
Fluoranthene	5	U	5	U	5	U				
Pyrene	5	U	5	U	5	U				
Butylbenzylphthalate	5	U	5	U	5	U				
3,3'-Dichlorobenzidine	5	R	5	U	5	U				
Benzo(a)anthracene	5	U	5	U	5	U				
Chrysene	5	U	5	U	5	U				
bis(2-Ethylhexyl)phthalate	5	U	5	U	5	U				
Di-n-octylphthalate	5	U	5	U	5	U				
Benzo(b)fluoranthene	5	UJ	5	U	5	U				
Benzo(k)fluoranthene	5	UJ	5	U	5	U				
Benzo(a)pyrene	5	UJ	5	U	5	U				
Indeno(1,2,3-cd)pyrene	5	UJ	5	U	5	U				
Dibenzo(a,h)anthracene	5	UJ	5	U	5	U				
Benzo(g,h,i)perylene	5	UJ	5	U	5	U				

Case #: 30650 SDG : E1YS7
Site : ABBOTSFORD PCE Number of Soil Samples : 0
Lab. : MITKEM Number of Water Samples : 9
Reviewer :
Date :

	Background						Rinsate blank			
Sample Number :	E1YS7		E1YS8		E1YS9		E1YT0		E1YT2	
Sampling Location :	B-4A		MW-14		MW-15		MW-17		PZ-14A	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
beta-BHC	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
delta-BHC	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
gamma-BHC (Lindane)	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
Heptachlor	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
Aldrin	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
Heptachlor epoxide	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
Endosulfan I	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
Dieldrin	0.020	U	0.020	U	0.020	U	0.020	U	0.020	U
4,4'-DDE	0.020	U	0.020	U	0.020	U	0.020	U	0.020	U
Endrin	0.020	U	0.020	U	0.020	U	0.020	U	0.020	U
Endosulfan II	0.020	U	0.020	U	0.020	U	0.020	U	0.020	U
4,4'-DDD	0.020	U	0.020	U	0.020	U	0.020	U	0.020	U
Endosulfan sulfate	0.020	U	0.020	U	0.020	U	0.020	U	0.020	U
4,4'-DDT	0.020	U	0.020	U	0.020	U	0.020	U	0.020	U
Methoxychlor	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endrin ketone	0.020	U	0.020	U	0.020	U	0.020	U	0.020	U
Endrin aldehyde	0.020	U	0.020	U	0.020	U	0.020	U	0.020	U
alpha-Chlordane	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
gamma-Chlordane	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
Toxaphene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1016	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Aroclor-1221	0.40	U	0.40	U	0.40	U	0.40	U	0.40	U
Aroclor-1232	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Aroclor-1242	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Aroclor-1248	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Aroclor-1254	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Aroclor-1260	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U

Analytical Results (Qualified Data)

Case #: 30650 SDG : E1YS7
Site : ABBOTSFORD PCE
Lab. : MITKEM
Reviewer :
Date :

	Lab QC		Lab QC				Field duplicate of MW-16A			
Sample Number :	E1YT2MS		E1YT2MSD		E1YT3		E1YT4		E1YT5	
Sampling Location :	PZ-14A		PZ-14A		PZ-15A		PZ-17A		MW-16	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
beta-BHC	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
delta-BHC	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
gamma-BHC (Lindane)	0.082		0.084		0.010	U	0.010	U	0.010	U
Heptachlor	0.093		0.10		0.010	U	0.010	U	0.010	U
Aldrin	0.073		0.077		0.010	U	0.010	U	0.010	U
Heptachlor epoxide	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
Endosulfan I	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
Dieldrin	0.18		0.18		0.020	U	0.020	U	0.020	U
4,4'-DDE	0.020	U	0.020	U	0.020	U	0.020	U	0.020	U
Endrin	0.20		0.21		0.020	U	0.020	U	0.020	U
Endosulfan II	0.020	U	0.020	U	0.020	U	0.020	U	0.020	U
4,4'-DDD	0.020	U	0.020	U	0.020	U	0.020	U	0.020	U
Endosulfan sulfate	0.020	U	0.020	U	0.020	U	0.020	U	0.020	U
4,4'-DDT	0.14		0.14		0.020	U	0.020	U	0.020	U
Methoxychlor	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endrin ketone	0.020	U	0.020	U	0.020	U	0.020	U	0.020	U
Endrin aldehyde	0.020	U	0.020	U	0.020	U	0.020	U	0.020	U
alpha-Chlordane	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
gamma-Chlordane	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
Toxaphene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1016	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Aroclor-1221	0.40	U	0.40	U	0.40	U	0.40	U	0.40	U
Aroclor-1232	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Aroclor-1242	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Aroclor-1248	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Aroclor-1254	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Aroclor-1260	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U

Case #: 30650 SDG : E1YS7
Site : ABBOTSFORD PCE
Lab. : MITKEM
Reviewer :
Date :

Sample Number :	E1YT6		PBLK01							
Sampling Location :	MW-16A									
Matrix :	Water		Water							
Units :	ug/L		ug/L							
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A							
pH :										
Dilution Factor :	1.0		1.0							
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.010	U	0.010	U						
beta-BHC	0.010	U	0.010	U						
delta-BHC	0.010	U	0.010	U						
gamma-BHC (Lindane)	0.010	U	0.010	U						
Heptachlor	0.010	U	0.010	U						
Aldrin	0.010	U	0.010	U						
Heptachlor epoxide	0.010	U	0.010	U						
Endosulfan I	0.010	U	0.010	U						
Dieldrin	0.020	U	0.020	U						
4,4'-DDE	0.020	U	0.020	U						
Endrin	0.020	U	0.020	U						
Endosulfan II	0.020	U	0.020	U						
4,4'-DDD	0.020	U	0.020	U						
Endosulfan sulfate	0.020	U	0.020	U						
4,4'-DDT	0.020	U	0.020	U						
Methoxychlor	0.10	U	0.10	U						
Endrin ketone	0.020	U	0.020	U						
Endrin aldehyde	0.020	U	0.020	U						
alpha-Chlordane	0.010	U	0.010	U						
gamma-Chlordane	0.010	U	0.010	U						
Toxaphene	1.0	U	1.0	U						
Aroclor-1016	0.20	U	0.20	U						
Aroclor-1221	0.40	U	0.40	U						
Aroclor-1232	0.20	U	0.20	U						
Aroclor-1242	0.20	U	0.20	U						
Aroclor-1248	0.20	U	0.20	U						
Aroclor-1254	0.20	U	0.20	U						
Aroclor-1260	0.20	U	0.20	U						

Wisconsin Department of Natural Resources
Laboratory Report

Laboratory: **Wisconsin State Laboratory of Hygiene** DNR ID **113133790**
2601 Agriculture Dr
Madison **WI** **53707**
Phone : **800-442-4618** Fax Phone : **608-224-6276**

Sample:

Field #:	**MW-17B**	Sample #:	**ON000139**
Collection Start:	**07/16/2002 07:45 am**	Collection End:	
Collected by:	**JOHN R. GRUMP**	Waterbody/Outfall Id:	
ID #:	**000508270**	ID Point #:	**POINT ID**
County:	**Marathon**	Account #:	**RR025**
Sample Location:	**ABBOTSFORD MUNICIPAL LANDFILL, GALVIN ROAD, CITY OF ABBOTSFORD**		
Sample Description:	**RINSATE SAMPLE OF DI WATER COLLECTED WITH A DISPOSABLE BAILER**		
Sample Source:	**MW**	Sample Depth:	
Date Reported:	**07/24/2002**	Sample Status:	**COMPLETE**
Project No:			

Analyses and Results:

Analysis Method: **VOCS IN WATER - EPA METHOD 8260B** Analysis Date: **07/17/2002** Lab Comment: **SEE ON000139.MM1**

Lab Memo

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THE FOLLOWING QUALIFIERS EXIST FOR THE DATA THAT IS REPORTED FOR
WISCONSIN STATE LABORATORY OF HYGIENE (WSLH) SAMPLE ON000139.

SAMPLE WAS NOT ACIDIFIED WITH HCL TO PH<2.
THE UPPER QC LIMIT FOR THE CALIBRATION CHECK IS EXCEEDED INDICATED
BY *QU.
THE LAB MATRIX SPIKE DOES NOT MEET THE UPPER QC LIMIT INDICATED BY *LMU.

IF YOU HAVE ANY QUESTIONS, CONTACT DAVID DEGENHARDT AT (608) 224-6269.
```

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
77562	**1,1,1,2-TETRACHLOROETHANE**	630206	**ND**	UG/L	0.50		1.7
34506	**1,1,1-TRICHLOROETHANE**	71556	**ND**	UG/L	0.50		1.7
34516	**1,1,2,2-TETRACHLOROETHANE**	79345	**ND**	UG/L	0.50		1.7
34511	**1,1,2-TRICHLOROETHANE**	79005	**ND**	UG/L	0.50		1.7
34496	**1,1-DICHLOROETHANE**	75343	**ND**	UG/L	0.50		1.7
34501	**1,1-DICHLOROETHYLENE**	75354	**ND**	UG/L	0.50		1.7
77168	**1,1-DICHLOROPROPENE**	563586	**ND**	UG/L	0.50		1.7
77613	**1,2,3-TRICHLOROBENZENE**	87616	**ND**	UG/L	0.50		1.7
77443	**1,2,3-TRICHLOROPROPANE**	96184	**ND**	UG/L	1.0		3.3
34551	**1,2,4-TRICHLOROBENZENE**	120821	**ND**	UG/L	0.50		1.7
77222	**1,2,4-TRIMETHYLBENZENE**	95636	**ND**	UG/L	0.50		1.7

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
38437	1,2-DIBROMO-3-CHLOROPROPANE	96128	ND	UG/L	1.0		3.3
77651	1,2-DIBROMOETHANE	106934	ND	UG/L	0.50		1.7
34536	1,2-DICHLOROBENZENE	95501	ND	UG/L	0.50		1.7
34531	1,2-DICHLOROETHANE	107062	ND	UG/L	0.50		1.7
34546	1,2-DICHLOROETHYLENE	156605	ND	UG/L	0.50		1.7
77093	1,2-DICHLOROETHYLENE CIS	156592	ND	UG/L	0.50		1.7
34541	1,2-DICHLOROPROPANE	78875	ND	UG/L	0.50		1.7
77226	1,3,5-TRIMETHYLBENZENE	108678	ND	UG/L	0.50		1.7
34566	1,3-DICHLOROBENZENE	541731	ND	UG/L	0.50		1.7
77173	1,3-DICHLOROPROPANE	142289	ND	UG/L	0.50		1.7
34704	1,3-DICHLOROPROPENE-CIS	10061015	ND	UG/L	0.50		1.7
34699	1,3-DICHLOROPROPENE-TRANS	10061026	ND	UG/L	1.0		3.3
34571	1,4-DICHLOROBENZENE	106467	ND	UG/L	0.50		1.7
77170	2,2-DICHLOROPROPANE	594207	ND	UG/L	1.0		3.3
78133	4-METHYL-2-PENTANONE	108101	ND	UG/L	3.0		10.
81552	ACETONE	67641	*QU*LMU 11.	UG/L	3.0		10.
34030	BENZENE	71432	ND	UG/L	0.50		1.7
81555	BROMOBENZENE	108861	ND	UG/L	0.50		1.7
77297	BROMOCHLOROMETHANE	74975	ND	UG/L	0.50		1.7
32101	BROMODICHLOROMETHANE	75274	ND	UG/L	0.50		1.7
32104	BROMOFORM	75252	ND	UG/L	1.0		3.3
34413	BROMOMETHANE	74839	ND	UG/L	1.0		3.3
77350	BUTYLBENZENE SEC	135988	ND	UG/L	0.50		1.7
77353	BUTYLBENZENE TERT	98066	ND	UG/L	0.50		1.7
77041	CARBON DISULFIDE	75150	ND	UG/L	3.0		10.
32102	CARBON TETRACHLORIDE	56235	ND	UG/L	0.50		1.7
34301	CHLOROBENZENE	108907	ND	UG/L	0.50		1.7
34311	CHLOROETHANE	75003	ND	UG/L	1.0		3.3
32106	CHLOROFORM	67663	ND	UG/L	0.50		1.7
34418	CHLOROMETHANE	74873	ND	UG/L	1.0		3.3
32105	DIBROMOCHLOROMETHANE	124481	ND	UG/L	1.0		3.3
77596	DIBROMOMETHANE	74953	ND	UG/L	0.50		1.7
34668	DICHLORODIFLUOROMETHANE	75718	ND	UG/L	1.0		3.3

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
81577	DIISOPROPYL ETHER	108203	ND	UG/L	3.0		10.
34371	ETHYLBENZENE	100414	ND	UG/L	0.50		1.7
34391	HEXACHLOROBUTADIENE	87683	ND	UG/L	0.50		1.7
77223	ISOPROPYLBENZENE	98828	ND	UG/L	0.50		1.7
85795	M/P-XYLENE	136777612	ND	UG/L	1.0		3.3
81595	METHYL ETHYL KETONE	78933	10.	UG/L	3.0		10.
78032	METHYL TERT BUTYL ETHER	1634044	ND	UG/L	1.0		3.3
34423	METHYLENE CHLORIDE	75092	ND	UG/L	1.0		3.3
77342	N-BUTYLBENZENE	104518	ND	UG/L	0.50		1.7
81590	N-HEXANE	110543	ND	UG/L	1.0		3.3
77224	N-PROPYLBENZENE	103651	ND	UG/L	0.50		1.7
34696	NAPHTHALENE	91203	ND	UG/L	0.50		1.7
77275	O-CHLOROTOLUENE	95498	ND	UG/L	0.50		1.7
77135	O-XYLENE	95476	ND	UG/L	0.50		1.7
77277	P-CHLOROTOLUENE	106434	ND	UG/L	0.50		1.7
77356	P-ISOPROPYLTOLUENE	99876	ND	UG/L	0.50		1.7
77128	STYRENE	100425	ND	UG/L	0.50		1.7
34475	TETRACHLOROETHYLENE	127184	ND	UG/L	0.50		1.7
81607	TETRAHYDROFURAN	109999	27.	UG/L	3.0		10.
34010	TOLUENE	108883	0.66	UG/L	0.50		1.7
39180	TRICHLOROETHYLENE	79016	ND	UG/L	0.50		1.7
34488	TRICHLOROFLUOROMETHANE	75694	ND	UG/L	1.0		3.3
81611	TRICHLOROTRIFLUOROETHANE	26523648	ND	UG/L	3.0		10.
39175	VINYL CHLORIDE	75014	ND	UG/L	0.50		1.7

Analysis Method	Analysis Date	Lab Comment
VOCS IN WATER - PREP - EPA METHOD 5030B	07/17/2002	

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
99385	PREP VOCS IN WATER METHOD 8260B		COMPLETE				

Analysis Method	Analysis Date	Lab Comment
TEMPERATURE ON RECEIPT-ICED - O95	07/16/2002	

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED			9999999	

Wisconsin Department of Natural Resources
Laboratory Report

Laboratory: **Wisconsin State Laboratory of Hygiene** DNR ID **113133790**
2601 Agriculture Dr
Madison **WI** **53707**
Phone : **800-442-4618** Fax Phone : **608-224-6276**

Sample:

Field #:	**MW-17A**	Sample #:	**ON000145**
Collection Start:	**07/16/2002 07:42 am**	Collection End:	
Collected by:	**JOHN R. GRUMP**	Waterbody/Outfall Id:	
ID #:	**000508270**	ID Point #:	**POINT ID**
County:	**Marathon**	Account #:	**RR025**
Sample Location:	**ABBOTSFORD MUNICIPAL LANDFILL, GALVIN ROAD, CITY OF ABBOTSFORD**		
Sample Description:	**RINSATE SAMPLE OF DI WATER COLLECTED WITH A DISPOSABLE BAILER**		
Sample Source:	**MW**	Sample Depth:	
Date Reported:	**07/24/2002**	Sample Status:	**COMPLETE**
Project No:			

Analyses and Results:

Analysis Method: **VOCS IN WATER - EPA METHOD 8260B** Analysis Date: **07/17/2002** Lab Comment: **SEE ON000145.MM1**

Lab Memo

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THE FOLLOWING QUALIFIERS EXIST FOR THE DATA THAT IS REPORTED FOR
WISCONSIN STATE LABORATORY OF HYGIENE (WSLH) SAMPLE ON000145.

THE UPPER QC LIMIT FOR THE CALIBRATION CHECK IS EXCEEDED INDICATED
BY *QU.
THE LAB MATRIX SPIKE DOES NOT MEET THE UPPER QC LIMIT INDICATED BY *LMU.

IF YOU HAVE ANY QUESTIONS, CONTACT DAVID DEGENHARDT AT (608) 224-6269
```

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
77562	**1,1,1,2-TETRACHLOROETHANE**	630206	**ND**	UG/L	0.50		1.7
34506	**1,1,1-TRICHLOROETHANE**	71556	**ND**	UG/L	0.50		1.7
34516	**1,1,2,2-TETRACHLOROETHANE**	79345	**ND**	UG/L	0.50		1.7
34511	**1,1,2-TRICHLOROETHANE**	79005	**ND**	UG/L	0.50		1.7
34496	**1,1-DICHLOROETHANE**	75343	**ND**	UG/L	0.50		1.7
34501	**1,1-DICHLOROETHYLENE**	75354	**ND**	UG/L	0.50		1.7
77168	**1,1-DICHLOROPROPENE**	563586	**ND**	UG/L	0.50		1.7
77613	**1,2,3-TRICHLOROBENZENE**	87616	**ND**	UG/L	0.50		1.7
77443	**1,2,3-TRICHLOROPROPANE**	96184	**ND**	UG/L	1.0		3.3
34551	**1,2,4-TRICHLOROBENZENE**	120821	**ND**	UG/L	0.50		1.7
77222	**1,2,4-TRIMETHYLBENZENE**	95636	**ND**	UG/L	0.50		1.7

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
38437	1,2-DIBROMO-3-CHLOROPROPANE	96128	ND	UG/L	1.0		3.3
77651	1,2-DIBROMOETHANE	106934	ND	UG/L	0.50		1.7
34536	1,2-DICHLOROBENZENE	95501	ND	UG/L	0.50		1.7
34531	1,2-DICHLOROETHANE	107062	ND	UG/L	0.50		1.7
34546	1,2-DICHLOROETHYLENE	156605	ND	UG/L	0.50		1.7
77093	1,2-DICHLOROETHYLENE CIS	156592	ND	UG/L	0.50		1.7
34541	1,2-DICHLOROPROPANE	78875	ND	UG/L	0.50		1.7
77226	1,3,5-TRIMETHYLBENZENE	108678	ND	UG/L	0.50		1.7
34566	1,3-DICHLOROBENZENE	541731	ND	UG/L	0.50		1.7
77173	1,3-DICHLOROPROPANE	142289	ND	UG/L	0.50		1.7
34704	1,3-DICHLOROPROPENE-CIS	10061015	ND	UG/L	0.50		1.7
34699	1,3-DICHLOROPROPENE-TRANS	10061026	ND	UG/L	1.0		3.3
34571	1,4-DICHLOROBENZENE	106467	ND	UG/L	0.50		1.7
77170	2,2-DICHLOROPROPANE	594207	ND	UG/L	1.0		3.3
78133	4-METHYL-2-PENTANONE	108101	ND	UG/L	3.0		10.
81552	ACETONE	67641	*QU*LMU 13.	UG/L	3.0		10.
34030	BENZENE	71432	ND	UG/L	0.50		1.7
81555	BROMOBENZENE	108861	ND	UG/L	0.50		1.7
77297	BROMOCHLOROMETHANE	74975	ND	UG/L	0.50		1.7
32101	BROMODICHLOROMETHANE	75274	ND	UG/L	0.50		1.7
32104	BROMOFORM	75252	ND	UG/L	1.0		3.3
34413	BROMOMETHANE	74839	ND	UG/L	1.0		3.3
77350	BUTYLBENZENE SEC	135988	ND	UG/L	0.50		1.7
77353	BUTYLBENZENE TERT	98066	ND	UG/L	0.50		1.7
77041	CARBON DISULFIDE	75150	ND	UG/L	3.0		10.
32102	CARBON TETRACHLORIDE	56235	ND	UG/L	0.50		1.7
34301	CHLOROBENZENE	108907	ND	UG/L	0.50		1.7
34311	CHLOROETHANE	75003	ND	UG/L	1.0		3.3
32106	CHLOROFORM	67663	ND	UG/L	0.50		1.7
34418	CHLOROMETHANE	74873	ND	UG/L	1.0		3.3
32105	DIBROMOCHLOROMETHANE	124481	ND	UG/L	1.0		3.3
77596	DIBROMOMETHANE	74953	ND	UG/L	0.50		1.7
34668	DICHLORODIFLUOROMETHANE	75718	ND	UG/L	1.0		3.3

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
81577	DIISOPROPYL ETHER	108203	ND	UG/L	3.0		10.
34371	ETHYLBENZENE	100414	ND	UG/L	0.50		1.7
34391	HEXACHLOROBUTADIENE	87683	ND	UG/L	0.50		1.7
77223	ISOPROPYLBENZENE	98828	ND	UG/L	0.50		1.7
85795	M/P-XYLENE	136777612	ND	UG/L	1.0		3.3
81595	METHYL ETHYL KETONE	78933	11.	UG/L	3.0		10.
78032	METHYL TERT BUTYL ETHER	1634044	ND	UG/L	1.0		3.3
34423	METHYLENE CHLORIDE	75092	ND	UG/L	1.0		3.3
77342	N-BUTYLBENZENE	104518	ND	UG/L	0.50		1.7
81590	N-HEXANE	110543	ND	UG/L	1.0		3.3
77224	N-PROPYLBENZENE	103651	ND	UG/L	0.50		1.7
34696	NAPHTHALENE	91203	ND	UG/L	0.50		1.7
77275	O-CHLOROTOLUENE	95498	ND	UG/L	0.50		1.7
77135	O-XYLENE	95476	ND	UG/L	0.50		1.7
77277	P-CHLOROTOLUENE	106434	ND	UG/L	0.50		1.7
77356	P-ISOPROPYLTOLUENE	99876	ND	UG/L	0.50		1.7
77128	STYRENE	100425	ND	UG/L	0.50		1.7
34475	TETRACHLOROETHYLENE	127184	ND	UG/L	0.50		1.7
81607	TETRAHYDROFURAN	109999	27.	UG/L	3.0		10.
34010	TOLUENE	108883	0.67	UG/L	0.50		1.7
39180	TRICHLOROETHYLENE	79016	ND	UG/L	0.50		1.7
34488	TRICHLOROFLUOROMETHANE	75694	ND	UG/L	1.0		3.3
81611	TRICHLOROTRIFLUOROETHANE	26523648	ND	UG/L	3.0		10.
39175	VINYL CHLORIDE	75014	ND	UG/L	0.50		1.7

Analysis Method	Analysis Date	Lab Comment
VOCS IN WATER - PREP - EPA METHOD 5030B	08/07/2002	

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
99385	PREP VOCS IN WATER METHOD 8260B		COMPLETE				

Analysis Method	Analysis Date	Lab Comment
TEMPERATURE ON RECEIPT-ICED - O950	07/16/2002	

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED			9999999	

Wisconsin Department of Natural Resources
Laboratory Report

Laboratory: Wisconsin State Laboratory of Hygiene DNR ID 113133790
2601 Agriculture Dr
Madison WI 53707
Phone : 800-442-4618 Fax Phone : 608-224-6276

Sample:

Field #: PZ-17AB
Sample #: ON000138
Collection Start: 07/16/2002 07:10 am
Collection End:
Collected by: JOHN R. GRUMP
Waterbody/Outfall Id:
ID #: 000508270
ID Point #: POINT ID
County: Marathon
Account #: RR025
Sample Location: ABBOTSFORD MUNICIPAL LANDFILL, GALVIN ROAD, CITY OF ABBOTSFORD
Sample Description: ON-SITE (DOWNGRADIENT) PIEZOMETER
Sample Source: MW-15A
Sample Depth:
Date Reported: 07/24/2002
Sample Status: COMPLETE
Project No:

Analyses and Results:

Analysis Method	Analysis Date	Lab Comment
VOCS IN WATER - EPA METHOD 8260B	07/17/2002	SAMPLE WAS NOT ACIDIFIED WITH HCL TO PH<2.

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
77562	1,1,1,2-TETRACHLOROETHANE	630206	ND	UG/L	0.50		1.7
34506	1,1,1-TRICHLOROETHANE	71556	ND	UG/L	0.50		1.7
34516	1,1,2,2-TETRACHLOROETHANE	79345	ND	UG/L	0.50		1.7
34511	1,1,2-TRICHLOROETHANE	79005	ND	UG/L	0.50		1.7
34496	1,1-DICHLOROETHANE	75343	ND	UG/L	0.50		1.7
34501	1,1-DICHLOROETHYLENE	75354	ND	UG/L	0.50		1.7
77168	1,1-DICHLOROPROPENE	563586	ND	UG/L	0.50		1.7
77613	1,2,3-TRICHLOROBENZENE	87616	ND	UG/L	0.50		1.7
77443	1,2,3-TRICHLOROPROPANE	96184	ND	UG/L	1.0		3.3
34551	1,2,4-TRICHLOROBENZENE	120821	ND	UG/L	0.50		1.7
77222	1,2,4-TRIMETHYLBENZENE	95636	ND	UG/L	0.50		1.7
38437	1,2-DIBROMO-3-CHLOROPROPANE	96128	ND	UG/L	1.0		3.3
77651	1,2-DIBROMOETHANE	106934	ND	UG/L	0.50		1.7
34536	1,2-DICHLOROBENZENE	95501	ND	UG/L	0.50		1.7
34531	1,2-DICHLOROETHANE	107062	ND	UG/L	0.50		1.7
34546	1,2-DICHLOROETHYLENE	156605	ND	UG/L	0.50		1.7
77093	1,2-DICHLOROETHYLENE CIS	156592	ND	UG/L	0.50		1.7
34541	1,2-DICHLOROPROPANE	78875	ND	UG/L	0.50		1.7
77226	1,3,5-TRIMETHYLBENZENE	108678	ND	UG/L	0.50		1.7

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
34566	**1,3-DICHLOROBENZENE**	541731	**ND**	UG/L	0.50		1.7
77173	**1,3-DICHLOROPROPANE**	142289	**ND**	UG/L	0.50		1.7
34704	**1,3-DICHLOROPROPENE-CIS**	10061015	**ND**	UG/L	0.50		1.7
34699	**1,3-DICHLOROPROPENE-TRANS**	10061026	**ND**	UG/L	1.0		3.3
34571	**1,4-DICHLOROBENZENE**	106467	**ND**	UG/L	0.50		1.7
77170	**2,2-DICHLOROPROPANE**	594207	**ND**	UG/L	1.0		3.3
78133	**4-METHYL-2-PENTANONE**	108101	**ND**	UG/L	3.0		10.
81552	**ACETONE**	67641	**ND**	UG/L	3.0		10.
34030	**BENZENE**	71432	**ND**	UG/L	0.50		1.7
81555	**BROMOBENZENE**	108861	**ND**	UG/L	0.50		1.7
77297	**BROMOCHLOROMETHANE**	74975	**ND**	UG/L	0.50		1.7
32101	**BROMODICHLOROMETHANE**	75274	**ND**	UG/L	0.50		1.7
32104	**BROMOFORM**	75252	**ND**	UG/L	1.0		3.3
34413	**BROMOMETHANE**	74839	**ND**	UG/L	1.0		3.3
77350	**BUTYLBENZENE SEC**	135988	**ND**	UG/L	0.50		1.7
77353	**BUTYLBENZENE TERT**	98066	**ND**	UG/L	0.50		1.7
77041	**CARBON DISULFIDE**	75150	**ND**	UG/L	3.0		10.
32102	**CARBON TETRACHLORIDE**	56235	**ND**	UG/L	0.50		1.7
34301	**CHLOROBENZENE**	108907	**ND**	UG/L	0.50		1.7
34311	**CHLOROETHANE**	75003	**ND**	UG/L	1.0		3.3
32106	**CHLOROFORM**	67663	**ND**	UG/L	0.50		1.7
34418	**CHLOROMETHANE**	74873	**ND**	UG/L	1.0		3.3
32105	**DIBROMOCHLOROMETHANE**	124481	**ND**	UG/L	1.0		3.3
77596	**DIBROMOMETHANE**	74953	**ND**	UG/L	0.50		1.7
34668	**DICHLORODIFLUOROMETHANE**	75718	**ND**	UG/L	1.0		3.3
81577	**DIISOPROPYL ETHER**	108203	**ND**	UG/L	3.0		10.
34371	**ETHYLBENZENE**	100414	**0.83**	UG/L	0.50		1.7
34391	**HEXACHLOROBUTADIENE**	87683	**ND**	UG/L	0.50		1.7
77223	**ISOPROPYLBENZENE**	98828	**ND**	UG/L	0.50		1.7
85795	**M/P-XYLENE**	136777612	**1.7**	UG/L	1.0		3.3
81595	**METHYL ETHYL KETONE**	78933	**ND**	UG/L	3.0		10.
78032	**METHYL TERT BUTYL ETHER**	1634044	**ND**	UG/L	1.0		3.3
34423	**METHYLENE CHLORIDE**	75092	**ND**	UG/L	1.0		3.3
77342	**N-BUTYLBENZENE**	104518	**ND**	UG/L	0.50		1.7

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
81590	N-HEXANE	110543	ND	UG/L	1.0		3.3
77224	N-PROPYLBENZENE	103651	ND	UG/L	0.50		1.7
34696	NAPHTHALENE	91203	ND	UG/L	0.50		1.7
77275	O-CHLOROTOLUENE	95498	ND	UG/L	0.50		1.7
77135	O-XYLENE	95476	1.5	UG/L	0.50		1.7
77277	P-CHLOROTOLUENE	106434	ND	UG/L	0.50		1.7
77356	P-ISOPROPYLTOLUENE	99876	ND	UG/L	0.50		1.7
77128	STYRENE	100425	ND	UG/L	0.50		1.7
34475	TETRACHLOROETHYLENE	127184	ND	UG/L	0.50		1.7
81607	TETRAHYDROFURAN	109999	ND	UG/L	3.0		10.
34010	TOLUENE	108883	ND	UG/L	0.50		1.7
39180	TRICHLOROETHYLENE	79016	ND	UG/L	0.50		1.7
34488	TRICHLOROFLUOROMETHANE	75694	ND	UG/L	1.0		3.3
81611	TRICHLOROTRIFLUOROETHANE	26523648	ND	UG/L	3.0		10.
39175	VINYL CHLORIDE	75014	ND	UG/L	0.50		1.7

Analysis Method	Analysis Date	Lab Comment
VOCS IN WATER - PREP - EPA METHOD 5030B	08/07/2002	

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
99385	PREP VOCS IN WATER METHOD 8260B		COMPLETE				

Analysis Method	Analysis Date	Lab Comment
TEMPERATURE ON RECEIPT-ICED - O95	07/16/2002	

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED			9999999	

Wisconsin Department of Natural Resources
Laboratory Report

Laboratory: Wisconsin State Laboratory of Hygiene DNR ID 113133790
2601 Agriculture Dr
Madison WI 53707
Phone : 800-442-4618 Fax Phone : 608-224-6276

Sample:

Field #:	PZ-17AA	Sample #:	ON000144
Collection Start:	07/16/2002 07:18 am	Collection End:	
Collected by:	JOHN R. GRUMP	Waterbody/Outfall Id:	
ID #:	000508270	ID Point #:	POINT ID
County:	Marathon	Account #:	RR025
Sample Location:	ABBOTSFORD MUNICIPAL LANDFILL, GALVIN ROAD, CITY OF ABBOTSFORD		
Sample Description:	ON-SITE (DOWNGRADIENT) PIEZOMETER		
Sample Source:	MW-15A	Sample Depth:	
Date Reported:	07/24/2002	Sample Status:	COMPLETE
Project No:			

Analyses and Results:

Analysis Method		Analysis Date	Lab Comment				
VOCS IN WATER - EPA METHOD 8260B		07/17/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
77562	1,1,1,2-TETRACHLOROETHANE	630206	ND	UG/L	0.50		1.7
34506	1,1,1-TRICHLOROETHANE	71556	ND	UG/L	0.50		1.7
34516	1,1,2,2-TETRACHLOROETHANE	79345	ND	UG/L	0.50		1.7
34511	1,1,2-TRICHLOROETHANE	79005	ND	UG/L	0.50		1.7
34496	1,1-DICHLOROETHANE	75343	ND	UG/L	0.50		1.7
34501	1,1-DICHLOROETHYLENE	75354	ND	UG/L	0.50		1.7
77168	1,1-DICHLOROPROPENE	563586	ND	UG/L	0.50		1.7
77613	1,2,3-TRICHLOROBENZENE	87616	ND	UG/L	0.50		1.7
77443	1,2,3-TRICHLOROPROPANE	96184	ND	UG/L	1.0		3.3
34551	1,2,4-TRICHLOROBENZENE	120821	ND	UG/L	0.50		1.7
77222	1,2,4-TRIMETHYLBENZENE	95636	ND	UG/L	0.50		1.7
38437	1,2-DIBROMO-3-CHLOROPROPANE	96128	ND	UG/L	1.0		3.3
77651	1,2-DIBROMOETHANE	106934	ND	UG/L	0.50		1.7
34536	1,2-DICHLOROBENZENE	95501	ND	UG/L	0.50		1.7
34531	1,2-DICHLOROETHANE	107062	ND	UG/L	0.50		1.7
34546	1,2-DICHLOROETHYLENE	156605	ND	UG/L	0.50		1.7
77093	1,2-DICHLOROETHYLENE CIS	156592	ND	UG/L	0.50		1.7
34541	1,2-DICHLOROPROPANE	78875	ND	UG/L	0.50		1.7
77226	1,3,5-TRIMETHYLBENZENE	108678	ND	UG/L	0.50		1.7

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
34566	**1,3-DICHLOROBENZENE**	541731	**ND**	UG/L	0.50		1.7
77173	**1,3-DICHLOROPROPANE**	142289	**ND**	UG/L	0.50		1.7
34704	**1,3-DICHLOROPROPENE-CIS**	10061015	**ND**	UG/L	0.50		1.7
34699	**1,3-DICHLOROPROPENE-TRANS**	10061026	**ND**	UG/L	1.0		3.3
34571	**1,4-DICHLOROBENZENE**	106467	**ND**	UG/L	0.50		1.7
77170	**2,2-DICHLOROPROPANE**	594207	**ND**	UG/L	1.0		3.3
78133	**4-METHYL-2-PENTANONE**	108101	**ND**	UG/L	3.0		10.
81552	**ACETONE**	67641	**ND**	UG/L	3.0		10.
34030	**BENZENE**	71432	**ND**	UG/L	0.50		1.7
81555	**BROMOBENZENE**	108861	**ND**	UG/L	0.50		1.7
77297	**BROMOCHLOROMETHANE**	74975	**ND**	UG/L	0.50		1.7
32101	**BROMODICHLOROMETHANE**	75274	**ND**	UG/L	0.50		1.7
32104	**BROMOFORM**	75252	**ND**	UG/L	1.0		3.3
34413	**BROMOMETHANE**	74839	**ND**	UG/L	1.0		3.3
77350	**BUTYLBENZENE SEC**	135988	**ND**	UG/L	0.50		1.7
77353	**BUTYLBENZENE TERT**	98066	**ND**	UG/L	0.50		1.7
77041	**CARBON DISULFIDE**	75150	**ND**	UG/L	3.0		10.
32102	**CARBON TETRACHLORIDE**	56235	**ND**	UG/L	0.50		1.7
34301	**CHLOROBENZENE**	108907	**ND**	UG/L	0.50		1.7
34311	**CHLOROETHANE**	75003	**ND**	UG/L	1.0		3.3
32106	**CHLOROFORM**	67663	**ND**	UG/L	0.50		1.7
34418	**CHLOROMETHANE**	74873	**ND**	UG/L	1.0		3.3
32105	**DIBROMOCHLOROMETHANE**	124481	**ND**	UG/L	1.0		3.3
77596	**DIBROMOMETHANE**	74953	**ND**	UG/L	0.50		1.7
34668	**DICHLORODIFLUOROMETHANE**	75718	**ND**	UG/L	1.0		3.3
81577	**DIISOPROPYL ETHER**	108203	**ND**	UG/L	3.0		10.
34371	**ETHYLBENZENE**	100414	**0.86**	UG/L	0.50		1.7
34391	**HEXACHLOROBUTADIENE**	87683	**ND**	UG/L	0.50		1.7
77223	**ISOPROPYLBENZENE**	98828	**ND**	UG/L	0.50		1.7
85795	**M/P-XYLENE**	136777612	**1.9**	UG/L	1.0		3.3
81595	**METHYL ETHYL KETONE**	78933	**ND**	UG/L	3.0		10.
78032	**METHYL TERT BUTYL ETHER**	1634044	**ND**	UG/L	1.0		3.3
34423	**METHYLENE CHLORIDE**	75092	**ND**	UG/L	1.0		3.3
77342	**N-BUTYLBENZENE**	104518	**ND**	UG/L	0.50		1.7

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
81590	N-HEXANE	110543	ND	UG/L	1.0		3.3
77224	N-PROPYLBENZENE	103651	ND	UG/L	0.50		1.7
34696	NAPHTHALENE	91203	ND	UG/L	0.50		1.7
77275	O-CHLOROTOLUENE	95498	ND	UG/L	0.50		1.7
77135	O-XYLENE	95476	1.5	UG/L	0.50		1.7
77277	P-CHLOROTOLUENE	106434	ND	UG/L	0.50		1.7
77356	P-ISOPROPYLTOLUENE	99876	ND	UG/L	0.50		1.7
77128	STYRENE	100425	ND	UG/L	0.50		1.7
34475	TETRACHLOROETHYLENE	127184	ND	UG/L	0.50		1.7
81607	TETRAHYDROFURAN	109999	ND	UG/L	3.0		10.
34010	TOLUENE	108883	ND	UG/L	0.50		1.7
39180	TRICHLOROETHYLENE	79016	ND	UG/L	0.50		1.7
34488	TRICHLOROFLUOROMETHANE	75694	ND	UG/L	1.0		3.3
81611	TRICHLOROTRIFLUOROETHANE	26523648	ND	UG/L	3.0		10.
39175	VINYL CHLORIDE	75014	ND	UG/L	0.50		1.7

Analysis Method	Analysis Date	Lab Comment
VOCS IN WATER - PREP - EPA METHOD 5030B	07/16/2002	

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
99385	PREP VOCS IN WATER METHOD 8260B		COMPLETE				

Analysis Method	Analysis Date	Lab Comment
TEMPERATURE ON RECEIPT-ICED - O950	07/16/2002	

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED			9999999	

Wisconsin Department of Natural Resources
Laboratory Report

Laboratory: Wisconsin State Laboratory of Hygiene DNR ID 113133790
2601 Agriculture Dr
Madison WI 53707
Phone : 800-442-4618 Fax Phone : 608-224-6276

Sample:

Field #: PZ-15AB
Sample #: ON000141
Collection Start: 07/16/2002 07:03 am
Collection End:
Collected by: JOHN R. GRUMP
Waterbody/Outfall Id:
ID #: 000508270
ID Point #: POINT ID
County: Marathon
Account #: RR025
Sample Location: ABBOTSFORD MUNICIPAL LANDFILL, GALVIN ROAD, CITY OF ABBOTSFORD
Sample Description: ON-SITE (DOWNGRADIENT) PIEZOMETER
Sample Source: MW
Sample Depth:
Date Reported: 07/24/2002
Sample Status: COMPLETE
Project No:

Analyses and Results:

Analysis Method	Analysis Date	Lab Comment
VOCS IN WATER - EPA METHOD 8260B	07/17/2002	SAMPLE WAS NOT ACIDIFIED WITH HCL TO PH<2.

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
77562	1,1,1,2-TETRACHLOROETHANE	630206	ND	UG/L	0.50		1.7
34506	1,1,1-TRICHLOROETHANE	71556	ND	UG/L	0.50		1.7
34516	1,1,2,2-TETRACHLOROETHANE	79345	ND	UG/L	0.50		1.7
34511	1,1,2-TRICHLOROETHANE	79005	ND	UG/L	0.50		1.7
34496	1,1-DICHLOROETHANE	75343	ND	UG/L	0.50		1.7
34501	1,1-DICHLOROETHYLENE	75354	ND	UG/L	0.50		1.7
77168	1,1-DICHLOROPROPENE	563586	ND	UG/L	0.50		1.7
77613	1,2,3-TRICHLOROBENZENE	87616	ND	UG/L	0.50		1.7
77443	1,2,3-TRICHLOROPROPANE	96184	ND	UG/L	1.0		3.3
34551	1,2,4-TRICHLOROBENZENE	120821	ND	UG/L	0.50		1.7
77222	1,2,4-TRIMETHYLBENZENE	95636	ND	UG/L	0.50		1.7
38437	1,2-DIBROMO-3-CHLOROPROPANE	96128	ND	UG/L	1.0		3.3
77651	1,2-DIBROMOETHANE	106934	ND	UG/L	0.50		1.7
34536	1,2-DICHLOROBENZENE	95501	ND	UG/L	0.50		1.7
34531	1,2-DICHLOROETHANE	107062	ND	UG/L	0.50		1.7
34546	1,2-DICHLOROETHYLENE	156605	ND	UG/L	0.50		1.7
77093	1,2-DICHLOROETHYLENE CIS	156592	ND	UG/L	0.50		1.7
34541	1,2-DICHLOROPROPANE	78875	ND	UG/L	0.50		1.7
77226	1,3,5-TRIMETHYLBENZENE	108678	ND	UG/L	0.50		1.7

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
34566	1,3-DICHLOROBENZENE	541731	ND	UG/L	0.50		1.7
77173	1,3-DICHLOROPROPANE	142289	ND	UG/L	0.50		1.7
34704	1,3-DICHLOROPROPENE-CIS	10061015	ND	UG/L	0.50		1.7
34699	1,3-DICHLOROPROPENE-TRANS	10061026	ND	UG/L	1.0		3.3
34571	1,4-DICHLOROBENZENE	106467	ND	UG/L	0.50		1.7
77170	2,2-DICHLOROPROPANE	594207	ND	UG/L	1.0		3.3
78133	4-METHYL-2-PENTANONE	108101	ND	UG/L	3.0		10.
81552	ACETONE	67641	ND	UG/L	3.0		10.
34030	BENZENE	71432	ND	UG/L	0.50		1.7
81555	BROMOBENZENE	108861	ND	UG/L	0.50		1.7
77297	BROMOCHLOROMETHANE	74975	ND	UG/L	0.50		1.7
32101	BROMODICHLOROMETHANE	75274	ND	UG/L	0.50		1.7
32104	BROMOFORM	75252	ND	UG/L	1.0		3.3
34413	BROMOMETHANE	74839	ND	UG/L	1.0		3.3
77350	BUTYLBENZENE SEC	135988	ND	UG/L	0.50		1.7
77353	BUTYLBENZENE TERT	98066	ND	UG/L	0.50		1.7
77041	CARBON DISULFIDE	75150	ND	UG/L	3.0		10.
32102	CARBON TETRACHLORIDE	56235	ND	UG/L	0.50		1.7
34301	CHLOROBENZENE	108907	ND	UG/L	0.50		1.7
34311	CHLOROETHANE	75003	ND	UG/L	1.0		3.3
32106	CHLOROFORM	67663	ND	UG/L	0.50		1.7
34418	CHLOROMETHANE	74873	ND	UG/L	1.0		3.3
32105	DIBROMOCHLOROMETHANE	124481	ND	UG/L	1.0		3.3
77596	DIBROMOMETHANE	74953	ND	UG/L	0.50		1.7
34668	DICHLORODIFLUOROMETHANE	75718	ND	UG/L	1.0		3.3
81577	DIISOPROPYL ETHER	108203	ND	UG/L	3.0		10.
34371	ETHYLBENZENE	100414	0.82	UG/L	0.50		1.7
34391	HEXACHLOROBUTADIENE	87683	ND	UG/L	0.50		1.7
77223	ISOPROPYLBENZENE	98828	ND	UG/L	0.50		1.7
85795	M/P-XYLENE	136777612	1.7	UG/L	1.0		3.3
81595	METHYL ETHYL KETONE	78933	ND	UG/L	3.0		10.
78032	METHYL TERT BUTYL ETHER	1634044	ND	UG/L	1.0		3.3
34423	METHYLENE CHLORIDE	75092	ND	UG/L	1.0		3.3
77342	N-BUTYLBENZENE	104518	ND	UG/L	0.50		1.7

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
81590	N-HEXANE	110543	ND	UG/L	1.0		3.3
77224	N-PROPYLBENZENE	103651	ND	UG/L	0.50		1.7
34696	NAPHTHALENE	91203	ND	UG/L	0.50		1.7
77275	O-CHLOROTOLUENE	95498	ND	UG/L	0.50		1.7
77135	O-XYLENE	95476	1.4	UG/L	0.50		1.7
77277	P-CHLOROTOLUENE	106434	ND	UG/L	0.50		1.7
77356	P-ISOPROPYLTOLUENE	99876	ND	UG/L	0.50		1.7
77128	STYRENE	100425	ND	UG/L	0.50		1.7
34475	TETRACHLOROETHYLENE	127184	ND	UG/L	0.50		1.7
81607	TETRAHYDROFURAN	109999	ND	UG/L	3.0		10.
34010	TOLUENE	108883	ND	UG/L	0.50		1.7
39180	TRICHLOROETHYLENE	79016	ND	UG/L	0.50		1.7
34488	TRICHLOROFLUOROMETHANE	75694	ND	UG/L	1.0		3.3
81611	TRICHLOROTRIFLUOROETHANE	26523648	ND	UG/L	3.0		10.
39175	VINYL CHLORIDE	75014	ND	UG/L	0.50		1.7

Analysis Method	Analysis Date	Lab Comment
VOCS IN WATER - PREP - EPA METHOD 503	08/2002	

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
99385	PREP VOCS IN WATER METHOD 8260B		COMPLETE				

Analysis Method	Analysis Date	Lab Comment
TEMPERATURE ON RECEIPT-ICED - O950	07/16/2002	

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED			9999999	

Wisconsin Department of Natural Resources
Laboratory Report

Laboratory: **Wisconsin State Laboratory of Hygiene** DNR ID **113133790**
2601 Agriculture Dr
Madison **WI** **53707**
Phone : **800-442-4618** Fax Phone : **608-224-6276**

Sample:

Field #: **PZ-15AA** Sample #: **ON000147**
Collection Start: **07/16/2002 07:05 am** Collection End:
Collected by: **JOHN R. GRUMP** Waterbody/Outfall Id:
ID #: **000508270** ID Point #: **POINT ID**
County: **Marathon** Account #: **RR025**
Sample Location: **ABBOTSFORD MUNICIPAL LANDFILL, GALVIN ROAD, CITY OF ABBOTSFORD**
Sample Description: **ON-SITE (DOWNGRADIENT) PIEZOMETER**
Sample Source: **MW** Sample Depth:
Date Reported: **07/24/2002** Sample Status: **COMPLETE**
Project No:

Analyses and Results:

Analysis Method		Analysis Date	Lab Comment				
VOCS IN WATER - EPA METHOD 8260B		**07/17/2002**					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
77562	**1,1,1,2-TETRACHLOROETHANE**	630206	**ND**	UG/L	0.50		1.7
34506	**1,1,1-TRICHLOROETHANE**	71556	**ND**	UG/L	0.50		1.7
34516	**1,1,2,2-TETRACHLOROETHANE**	79345	**ND**	UG/L	0.50		1.7
34511	**1,1,2-TRICHLOROETHANE**	79005	**ND**	UG/L	0.50		1.7
34496	**1,1-DICHLOROETHANE**	75343	**ND**	UG/L	0.50		1.7
34501	**1,1-DICHLOROETHYLENE**	75354	**ND**	UG/L	0.50		1.7
77168	**1,1-DICHLOROPROPENE**	563586	**ND**	UG/L	0.50		1.7
77613	**1,2,3-TRICHLOROBENZENE**	87616	**ND**	UG/L	0.50		1.7
77443	**1,2,3-TRICHLOROPROPANE**	96184	**ND**	UG/L	1.0		3.3
34551	**1,2,4-TRICHLOROBENZENE**	120821	**ND**	UG/L	0.50		1.7
77222	**1,2,4-TRIMETHYLBENZENE**	95636	**ND**	UG/L	0.50		1.7
38437	**1,2-DIBROMO-3-CHLOROPROPANE**	96128	**ND**	UG/L	1.0		3.3
77651	**1,2-DIBROMOETHANE**	106934	**ND**	UG/L	0.50		1.7
34536	**1,2-DICHLOROBENZENE**	95501	**ND**	UG/L	0.50		1.7
34531	**1,2-DICHLOROETHANE**	107062	**ND**	UG/L	0.50		1.7
34546	**1,2-DICHLOROETHYLENE**	156605	**ND**	UG/L	0.50		1.7
77093	**1,2-DICHLOROETHYLENE CIS**	156592	**ND**	UG/L	0.50		1.7
34541	**1,2-DICHLOROPROPANE**	78875	**ND**	UG/L	0.50		1.7
77226	**1,3,5-TRIMETHYLBENZENE**	108678	**ND**	UG/L	0.50		1.7

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
34566	1,3-DICHLOROBENZENE	541731	ND	UG/L	0.50		1.7
77173	1,3-DICHLOROPROPANE	142289	ND	UG/L	0.50		1.7
34704	1,3-DICHLOROPROPENE-CIS	10061015	ND	UG/L	0.50		1.7
34699	1,3-DICHLOROPROPENE-TRANS	10061026	ND	UG/L	1.0		3.3
34571	1,4-DICHLOROBENZENE	106467	ND	UG/L	0.50		1.7
77170	2,2-DICHLOROPROPANE	594207	ND	UG/L	1.0		3.3
78133	4-METHYL-2-PENTANONE	108101	ND	UG/L	3.0		10.
81552	ACETONE	67641	ND	UG/L	3.0		10.
34030	BENZENE	71432	ND	UG/L	0.50		1.7
81555	BROMOBENZENE	108861	ND	UG/L	0.50		1.7
77297	BROMOCHLOROMETHANE	74975	ND	UG/L	0.50		1.7
32101	BROMODICHLOROMETHANE	75274	ND	UG/L	0.50		1.7
32104	BROMOFORM	75252	ND	UG/L	1.0		3.3
34413	BROMOMETHANE	74839	ND	UG/L	1.0		3.3
77350	BUTYLBENZENE SEC	135988	ND	UG/L	0.50		1.7
77353	BUTYLBENZENE TERT	98066	ND	UG/L	0.50		1.7
77041	CARBON DISULFIDE	75150	ND	UG/L	3.0		10.
32102	CARBON TETRACHLORIDE	56235	ND	UG/L	0.50		1.7
34301	CHLOROBENZENE	108907	ND	UG/L	0.50		1.7
34311	CHLOROETHANE	75003	ND	UG/L	1.0		3.3
32106	CHLOROFORM	67663	ND	UG/L	0.50		1.7
34418	CHLOROMETHANE	74873	ND	UG/L	1.0		3.3
32105	DIBROMOCHLOROMETHANE	124481	ND	UG/L	1.0		3.3
77596	DIBROMOMETHANE	74953	ND	UG/L	0.50		1.7
34668	DICHLORODIFLUOROMETHANE	75718	ND	UG/L	1.0		3.3
81577	DIISOPROPYL ETHER	108203	ND	UG/L	3.0		10.
34371	ETHYLBENZENE	100414	0.83	UG/L	0.50		1.7
34391	HEXACHLOROBUTADIENE	87683	ND	UG/L	0.50		1.7
77223	ISOPROPYLBENZENE	98828	ND	UG/L	0.50		1.7
85795	M/P-XYLENE	136777612	1.7	UG/L	1.0		3.3
81595	METHYL ETHYL KETONE	78933	ND	UG/L	3.0		10.
78032	METHYL TERT BUTYL ETHER	1634044	ND	UG/L	1.0		3.3
34423	METHYLENE CHLORIDE	75092	ND	UG/L	1.0		3.3
77342	N-BUTYLBENZENE	104518	ND	UG/L	0.50		1.7

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
81590	N-HEXANE	110543	ND	UG/L	1.0		3.3
77224	N-PROPYLBENZENE	103651	ND	UG/L	0.50		1.7
34696	NAPHTHALENE	91203	ND	UG/L	0.50		1.7
77275	O-CHLOROTOLUENE	95498	ND	UG/L	0.50		1.7
77135	O-XYLENE	95476	1.4	UG/L	0.50		1.7
77277	P-CHLOROTOLUENE	106434	ND	UG/L	0.50		1.7
77356	P-ISOPROPYLTOLUENE	99876	ND	UG/L	0.50		1.7
77128	STYRENE	100425	ND	UG/L	0.50		1.7
34475	TETRACHLOROETHYLENE	127184	ND	UG/L	0.50		1.7
81607	TETRAHYDROFURAN	109999	ND	UG/L	3.0		10.
34010	TOLUENE	108883	ND	UG/L	0.50		1.7
39180	TRICHLOROETHYLENE	79016	ND	UG/L	0.50		1.7
34488	TRICHLOROFLUOROMETHANE	75694	ND	UG/L	1.0		3.3
81611	TRICHLOROTRIFLUOROETHANE	26523648	ND	UG/L	3.0		10.
39175	VINYL CHLORIDE	75014	ND	UG/L	0.50		1.7

Analysis Method	Analysis Date	Lab Comment
VOCS IN WATER - PREP - EPA METHOD 5030B	08/2002	

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
99385	PREP VOCS IN WATER METHOD 8260B		COMPLETE				

Analysis Method	Analysis Date	Lab Comment
TEMPERATURE ON RECEIPT-ICED - O950	07/16/2002	

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED			9999999	

Wisconsin Department of Natural Resources
Laboratory Report

Laboratory: Wisconsin State Laboratory of Hygiene DNR ID 113133790
2601 Agriculture Dr
Madison WI 53707
Phone : 800-442-4618 Fax Phone : 608-224-6276

Sample:

Field #: PZ-14AB
Sample #: ON000140
Collection Start: 07/16/2002 06:37 am
Collection End:
Collected by: JOHN R. GRUMP
Waterbody/Outfall Id:
ID #: 000508270
ID Point #: POINT ID
County: Marathon
Account #: RR025
Sample Location: ABBOTSFORD MUNICIPAL LANDFILL, GALVIN ROAD, CITY OF ABBOTSFORD
Sample Description: ON-SITE (DOWNGRADIENT) PIEZOMETER
Sample Source: MW
Sample Depth:
Date Reported: 07/24/2002
Sample Status: COMPLETE
Project No:

Analyses and Results:

Analysis Method	Analysis Date	Lab Comment
VOCS IN WATER - EPA METHOD 8260B	07/17/2002	SAMPLE WAS NOT ACIDIFIED WITH HCL TO PH<2.

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
77562	1,1,1,2-TETRACHLOROETHANE	630206	ND	UG/L	0.50		1.7
34506	1,1,1-TRICHLOROETHANE	71556	ND	UG/L	0.50		1.7
34516	1,1,2,2-TETRACHLOROETHANE	79345	ND	UG/L	0.50		1.7
34511	1,1,2-TRICHLOROETHANE	79005	ND	UG/L	0.50		1.7
34496	1,1-DICHLOROETHANE	75343	ND	UG/L	0.50		1.7
34501	1,1-DICHLOROETHYLENE	75354	ND	UG/L	0.50		1.7
77168	1,1-DICHLOROPROPENE	563586	ND	UG/L	0.50		1.7
77613	1,2,3-TRICHLOROBENZENE	87616	ND	UG/L	0.50		1.7
77443	1,2,3-TRICHLOROPROPANE	96184	ND	UG/L	1.0		3.3
34551	1,2,4-TRICHLOROBENZENE	120821	ND	UG/L	0.50		1.7
77222	1,2,4-TRIMETHYLBENZENE	95636	ND	UG/L	0.50		1.7
38437	1,2-DIBROMO-3-CHLOROPROPANE	96128	ND	UG/L	1.0		3.3
77651	1,2-DIBROMOETHANE	106934	ND	UG/L	0.50		1.7
34536	1,2-DICHLOROBENZENE	95501	ND	UG/L	0.50		1.7
34531	1,2-DICHLOROETHANE	107062	ND	UG/L	0.50		1.7
34546	1,2-DICHLOROETHYLENE	156605	ND	UG/L	0.50		1.7
77093	1,2-DICHLOROETHYLENE CIS	156592	ND	UG/L	0.50		1.7
34541	1,2-DICHLOROPROPANE	78875	ND	UG/L	0.50		1.7
77226	1,3,5-TRIMETHYLBENZENE	108678	ND	UG/L	0.50		1.7

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
34566	1,3-DICHLOROBENZENE	541731	ND	UG/L	0.50		1.7
77173	1,3-DICHLOROPROPANE	142289	ND	UG/L	0.50		1.7
34704	1,3-DICHLOROPROPENE-CIS	10061015	ND	UG/L	0.50		1.7
34699	1,3-DICHLOROPROPENE-TRANS	10061026	ND	UG/L	1.0		3.3
34571	1,4-DICHLOROBENZENE	106467	ND	UG/L	0.50		1.7
77170	2,2-DICHLOROPROPANE	594207	ND	UG/L	1.0		3.3
78133	4-METHYL-2-PENTANONE	108101	ND	UG/L	3.0		10.
81552	ACETONE	67641	ND	UG/L	3.0		10.
34030	BENZENE	71432	ND	UG/L	0.50		1.7
81555	BROMOBENZENE	108861	ND	UG/L	0.50		1.7
77297	BROMOCHLOROMETHANE	74975	ND	UG/L	0.50		1.7
32101	BROMODICHLOROMETHANE	75274	ND	UG/L	0.50		1.7
32104	BROMOFORM	75252	ND	UG/L	1.0		3.3
34413	BROMOMETHANE	74839	ND	UG/L	1.0		3.3
77350	BUTYLBENZENE SEC	135988	ND	UG/L	0.50		1.7
77353	BUTYLBENZENE TERT	98066	ND	UG/L	0.50		1.7
77041	CARBON DISULFIDE	75150	ND	UG/L	3.0		10.
32102	CARBON TETRACHLORIDE	56235	ND	UG/L	0.50		1.7
34301	CHLOROBENZENE	108907	ND	UG/L	0.50		1.7
34311	CHLOROETHANE	75003	ND	UG/L	1.0		3.3
32106	CHLOROFORM	67663	ND	UG/L	0.50		1.7
34418	CHLOROMETHANE	74873	ND	UG/L	1.0		3.3
32105	DIBROMOCHLOROMETHANE	124481	ND	UG/L	1.0		3.3
77596	DIBROMOMETHANE	74953	ND	UG/L	0.50		1.7
34668	DICHLORODIFLUOROMETHANE	75718	ND	UG/L	1.0		3.3
81577	DIISOPROPYL ETHER	108203	ND	UG/L	3.0		10.
34371	ETHYLBENZENE	100414	ND	UG/L	0.50		1.7
34391	HEXACHLOROBUTADIENE	87683	ND	UG/L	0.50		1.7
77223	ISOPROPYLBENZENE	98828	ND	UG/L	0.50		1.7
85795	M/P-XYLENE	136777612	ND	UG/L	1.0		3.3
81595	METHYL ETHYL KETONE	78933	ND	UG/L	3.0		10.
78032	METHYL TERT BUTYL ETHER	1634044	ND	UG/L	1.0		3.3
34423	METHYLENE CHLORIDE	75092	ND	UG/L	1.0		3.3
77342	N-BUTYLBENZENE	104518	ND	UG/L	0.50		1.7

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
81590	N-HEXANE	110543	ND	UG/L	1.0		3.3
77224	N-PROPYLBENZENE	103651	ND	UG/L	0.50		1.7
34696	NAPHTHALENE	91203	ND	UG/L	0.50		1.7
77275	O-CHLOROTOLUENE	95498	ND	UG/L	0.50		1.7
77135	O-XYLENE	95476	ND	UG/L	0.50		1.7
77277	P-CHLOROTOLUENE	106434	ND	UG/L	0.50		1.7
77356	P-ISOPROPYLTOLUENE	99876	ND	UG/L	0.50		1.7
77128	STYRENE	100425	ND	UG/L	0.50		1.7
34475	TETRACHLOROETHYLENE	127184	ND	UG/L	0.50		1.7
81607	TETRAHYDROFURAN	109999	ND	UG/L	3.0		10.
34010	TOLUENE	108883	ND	UG/L	0.50		1.7
39180	TRICHLOROETHYLENE	79016	ND	UG/L	0.50		1.7
34488	TRICHLOROFLUOROMETHANE	75694	ND	UG/L	1.0		3.3
81611	TRICHLOROTRIFLUOROETHANE	26523648	ND	UG/L	3.0		10.
39175	VINYL CHLORIDE	75014	ND	UG/L	0.50		1.7

Analysis Method	Analysis Date	Lab Comment
VOCS IN WATER - PREP - EPA METHOD 503	08/07/2002	

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
99385	PREP VOCS IN WATER METHOD 8260B		COMPLETE				

Analysis Method	Analysis Date	Lab Comment
TEMPERATURE ON RECEIPT-ICED - O950	07/16/2002	

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED			9999999	

Wisconsin Department of Natural Resources
Laboratory Report

Laboratory: **Wisconsin State Laboratory of Hygiene** DNR ID **113133790**
2601 Agriculture Dr
Madison **WI** **53707**
Phone : **800-442-4618** Fax Phone : **608-224-6276**

Sample:

Field #: **PZ-14AA** Sample #: **ON000146**
Collection Start: **07/16/2002 06:43 am** Collection End:
Collected by: **JOHN R. GRUMP** Waterbody/Outfall Id:
ID #: **000508270** ID Point #: **POINT ID**
County: **Marathon** Account #: **RR025**
Sample Location: **ABBOTSFORD MUNICIPAL LANDFILL, GALVIN ROAD, CITY OF ABBOTSFORD**
Sample Description: **ON-SITE (DOWNGRADIENT) PIEZOMETER**
Sample Source: **MW** Sample Depth:
Date Reported: **07/24/2002** Sample Status: **COMPLETE**
Project No:

Analyses and Results:

Analysis Method		Analysis Date	Lab Comment				
VOCS IN WATER - EPA METHOD 8260B		**07/17/2002**					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
77562	**1,1,1,2-TETRACHLOROETHANE**	630206	**ND**	UG/L	0.50		1.7
34506	**1,1,1-TRICHLOROETHANE**	71556	**ND**	UG/L	0.50		1.7
34516	**1,1,2,2-TETRACHLOROETHANE**	79345	**ND**	UG/L	0.50		1.7
34511	**1,1,2-TRICHLOROETHANE**	79005	**ND**	UG/L	0.50		1.7
34496	**1,1-DICHLOROETHANE**	75343	**ND**	UG/L	0.50		1.7
34501	**1,1-DICHLOROETHYLENE**	75354	**ND**	UG/L	0.50		1.7
77168	**1,1-DICHLOROPROPENE**	563586	**ND**	UG/L	0.50		1.7
77613	**1,2,3-TRICHLOROBENZENE**	87616	**ND**	UG/L	0.50		1.7
77443	**1,2,3-TRICHLOROPROPANE**	96184	**ND**	UG/L	1.0		3.3
34551	**1,2,4-TRICHLOROBENZENE**	120821	**ND**	UG/L	0.50		1.7
77222	**1,2,4-TRIMETHYLBENZENE**	95636	**ND**	UG/L	0.50		1.7
38437	**1,2-DIBROMO-3-CHLOROPROPANE**	96128	**ND**	UG/L	1.0		3.3
77651	**1,2-DIBROMOETHANE**	106934	**ND**	UG/L	0.50		1.7
34536	**1,2-DICHLOROBENZENE**	95501	**ND**	UG/L	0.50		1.7
34531	**1,2-DICHLOROETHANE**	107062	**ND**	UG/L	0.50		1.7
34546	**1,2-DICHLOROETHYLENE**	156605	**ND**	UG/L	0.50		1.7
77093	**1,2-DICHLOROETHYLENE CIS**	156592	**ND**	UG/L	0.50		1.7
34541	**1,2-DICHLOROPROPANE**	78875	**ND**	UG/L	0.50		1.7
77226	**1,3,5-TRIMETHYLBENZENE**	108678	**ND**	UG/L	0.50		1.7

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
34566	1,3-DICHLOROBENZENE	541731	ND	UG/L	0.50		1.7
77173	1,3-DICHLOROPROPANE	142289	ND	UG/L	0.50		1.7
34704	1,3-DICHLOROPROPENE-CIS	10061015	ND	UG/L	0.50		1.7
34699	1,3-DICHLOROPROPENE-TRANS	10061026	ND	UG/L	1.0		3.3
34571	1,4-DICHLOROBENZENE	106467	ND	UG/L	0.50		1.7
77170	2,2-DICHLOROPROPANE	594207	ND	UG/L	1.0		3.3
78133	4-METHYL-2-PENTANONE	108101	ND	UG/L	3.0		10.
81552	ACETONE	67641	ND	UG/L	3.0		10.
34030	BENZENE	71432	ND	UG/L	0.50		1.7
81555	BROMOBENZENE	108861	ND	UG/L	0.50		1.7
77297	BROMOCHLOROMETHANE	74975	ND	UG/L	0.50		1.7
32101	BROMODICHLOROMETHANE	75274	ND	UG/L	0.50		1.7
32104	BROMOFORM	75252	ND	UG/L	1.0		3.3
34413	BROMOMETHANE	74839	ND	UG/L	1.0		3.3
77350	BUTYLBENZENE SEC	135988	ND	UG/L	0.50		1.7
77353	BUTYLBENZENE TERT	98066	ND	UG/L	0.50		1.7
77041	CARBON DISULFIDE	75150	ND	UG/L	3.0		10.
32102	CARBON TETRACHLORIDE	56235	ND	UG/L	0.50		1.7
34301	CHLOROBENZENE	108907	ND	UG/L	0.50		1.7
34311	CHLOROETHANE	75003	ND	UG/L	1.0		3.3
32106	CHLOROFORM	67663	ND	UG/L	0.50		1.7
34418	CHLOROMETHANE	74873	ND	UG/L	1.0		3.3
32105	DIBROMOCHLOROMETHANE	124481	ND	UG/L	1.0		3.3
77596	DIBROMOMETHANE	74953	ND	UG/L	0.50		1.7
34668	DICHLORODIFLUOROMETHANE	75718	ND	UG/L	1.0		3.3
81577	DIISOPROPYL ETHER	108203	ND	UG/L	3.0		10.
34371	ETHYLBENZENE	100414	ND	UG/L	0.50		1.7
34391	HEXACHLOROBUTADIENE	87683	ND	UG/L	0.50		1.7
77223	ISOPROPYLBENZENE	98828	ND	UG/L	0.50		1.7
85795	M/P-XYLENE	136777612	ND	UG/L	1.0		3.3
81595	METHYL ETHYL KETONE	78933	ND	UG/L	3.0		10.
78032	METHYL TERT BUTYL ETHER	1634044	ND	UG/L	1.0		3.3
34423	METHYLENE CHLORIDE	75092	ND	UG/L	1.0		3.3
77342	N-BUTYLBENZENE	104518	ND	UG/L	0.50		1.7

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
81590	N-HEXANE	110543	ND	UG/L	1.0		3.3
77224	N-PROPYLBENZENE	103651	ND	UG/L	0.50		1.7
34696	NAPHTHALENE	91203	ND	UG/L	0.50		1.7
77275	O-CHLOROTOLUENE	95498	ND	UG/L	0.50		1.7
77135	O-XYLENE	95476	ND	UG/L	0.50		1.7
77277	P-CHLOROTOLUENE	106434	ND	UG/L	0.50		1.7
77356	P-ISOPROPYLTOLUENE	99876	ND	UG/L	0.50		1.7
77128	STYRENE	100425	ND	UG/L	0.50		1.7
34475	TETRACHLOROETHYLENE	127184	ND	UG/L	0.50		1.7
81607	TETRAHYDROFURAN	109999	ND	UG/L	3.0		10.
34010	TOLUENE	108883	ND	UG/L	0.50		1.7
39180	TRICHLOROETHYLENE	79016	ND	UG/L	0.50		1.7
34488	TRICHLOROFLUOROMETHANE	75694	ND	UG/L	1.0		3.3
81611	TRICHLOROTRIFLUOROETHANE	26523648	ND	UG/L	3.0		10.
39175	VINYL CHLORIDE	75014	ND	UG/L	0.50		1.7

Analysis Method	Analysis Date	Lab Comment
VOCS IN WATER - PREP - EPA METHOD 5030B	07/16/2002	

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
99385	PREP VOCS IN WATER METHOD 8260B		COMPLETE				

Analysis Method	Analysis Date	Lab Comment
TEMPERATURE ON RECEIPT-ICED - O950	07/16/2002	

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED			9999999	

Wisconsin Department of Natural Resources
Laboratory Report

Laboratory: Wisconsin State Laboratory of Hygiene DNR ID 113133790
2601 Agriculture Dr
Madison WI 53707
Phone : 800-442-4618 Fax Phone : 608-224-6276

Sample:

Field #: MW-14A
Sample #: ON000142
Collection Start: 07/16/2002 06:27 am
Collection End:
Collected by: JOHN R. GRUMP
Waterbody/Outfall Id:
ID #: 000508270
ID Point #: POINT ID
County: Marathon
Account #: RR025
Sample Location: ABBOTSFORD MUNICIPAL LANDFILL, GALVIN ROAD, CITY OF ABBOTSFORD
Sample Description: ON-SITE (DOWNGRADIENT) WATER TABLE OBSERVATION WELL
Sample Source: MW
Sample Depth:
Date Reported: 07/24/2002
Sample Status: COMPLETE
Project No:

Analyses and Results:

Analysis Method		Analysis Date	Lab Comment				
VOCS IN WATER - EPA METHOD 8260B		07/17/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
77562	1,1,1,2-TETRACHLOROETHANE	630206	ND	UG/L	0.50		1.7
34506	1,1,1-TRICHLOROETHANE	71556	ND	UG/L	0.50		1.7
34516	1,1,2,2-TETRACHLOROETHANE	79345	ND	UG/L	0.50		1.7
34511	1,1,2-TRICHLOROETHANE	79005	ND	UG/L	0.50		1.7
34496	1,1-DICHLOROETHANE	75343	ND	UG/L	0.50		1.7
34501	1,1-DICHLOROETHYLENE	75354	ND	UG/L	0.50		1.7
77168	1,1-DICHLOROPROPENE	563586	ND	UG/L	0.50		1.7
77613	1,2,3-TRICHLOROBENZENE	87616	ND	UG/L	0.50		1.7
77443	1,2,3-TRICHLOROPROPANE	96184	ND	UG/L	1.0		3.3
34551	1,2,4-TRICHLOROBENZENE	120821	ND	UG/L	0.50		1.7
77222	1,2,4-TRIMETHYLBENZENE	95636	ND	UG/L	0.50		1.7
38437	1,2-DIBROMO-3-CHLOROPROPANE	96128	ND	UG/L	1.0		3.3
77651	1,2-DIBROMOETHANE	106934	ND	UG/L	0.50		1.7
34536	1,2-DICHLOROBENZENE	95501	ND	UG/L	0.50		1.7
34531	1,2-DICHLOROETHANE	107062	ND	UG/L	0.50		1.7
34546	1,2-DICHLOROETHYLENE	156605	ND	UG/L	0.50		1.7
77093	1,2-DICHLOROETHYLENE CIS	156592	ND	UG/L	0.50		1.7
34541	1,2-DICHLOROPROPANE	78875	ND	UG/L	0.50		1.7
77226	1,3,5-TRIMETHYLBENZENE	108678	ND	UG/L	0.50		1.7

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
34566	1,3-DICHLOROBENZENE	541731	ND	UG/L	0.50		1.7
77173	1,3-DICHLOROPROPANE	142289	ND	UG/L	0.50		1.7
34704	1,3-DICHLOROPROPENE-CIS	10061015	ND	UG/L	0.50		1.7
34699	1,3-DICHLOROPROPENE-TRANS	10061026	ND	UG/L	1.0		3.3
34571	1,4-DICHLOROBENZENE	106467	ND	UG/L	0.50		1.7
77170	2,2-DICHLOROPROPANE	594207	ND	UG/L	1.0		3.3
78133	4-METHYL-2-PENTANONE	108101	ND	UG/L	3.0		10.
81552	ACETONE	67641	ND	UG/L	3.0		10.
34030	BENZENE	71432	ND	UG/L	0.50		1.7
81555	BROMOBENZENE	108861	ND	UG/L	0.50		1.7
77297	BROMOCHLOROMETHANE	74975	ND	UG/L	0.50		1.7
32101	BROMODICHLOROMETHANE	75274	ND	UG/L	0.50		1.7
32104	BROMOFORM	75252	ND	UG/L	1.0		3.3
34413	BROMOMETHANE	74839	ND	UG/L	1.0		3.3
77350	BUTYLBENZENE SEC	135988	ND	UG/L	0.50		1.7
77353	BUTYLBENZENE TERT	98066	ND	UG/L	0.50		1.7
77041	CARBON DISULFIDE	75150	ND	UG/L	3.0		10.
32102	CARBON TETRACHLORIDE	56235	ND	UG/L	0.50		1.7
34301	CHLOROBENZENE	108907	ND	UG/L	0.50		1.7
34311	CHLOROETHANE	75003	ND	UG/L	1.0		3.3
32106	CHLOROFORM	67663	ND	UG/L	0.50		1.7
34418	CHLOROMETHANE	74873	ND	UG/L	1.0		3.3
32105	DIBROMOCHLOROMETHANE	124481	ND	UG/L	1.0		3.3
77596	DIBROMOMETHANE	74953	ND	UG/L	0.50		1.7
34668	DICHLORODIFLUOROMETHANE	75718	ND	UG/L	1.0		3.3
81577	DIISOPROPYL ETHER	108203	ND	UG/L	3.0		10.
34371	ETHYLBENZENE	100414	ND	UG/L	0.50		1.7
34391	HEXACHLOROBUTADIENE	87683	ND	UG/L	0.50		1.7
77223	ISOPROPYLBENZENE	98828	ND	UG/L	0.50		1.7
85795	M/P-XYLENE	136777612	ND	UG/L	1.0		3.3
81595	METHYL ETHYL KETONE	78933	ND	UG/L	3.0		10.
78032	METHYL TERT BUTYL ETHER	1634044	ND	UG/L	1.0		3.3
34423	METHYLENE CHLORIDE	75092	ND	UG/L	1.0		3.3
77342	N-BUTYLBENZENE	104518	ND	UG/L	0.50		1.7

Code	*Description*	*Cas No*	*Result*	*Units*	*LOD*	*Report Limit*	*LOQ*
81590	**N-HEXANE**	110543	**ND**	UG/L	1.0		3.3
77224	**N-PROPYLBENZENE**	103651	**ND**	UG/L	0.50		1.7
34696	**NAPHTHALENE**	91203	**ND**	UG/L	0.50		1.7
77275	**O-CHLOROTOLUENE**	95498	**ND**	UG/L	0.50		1.7
77135	**O-XYLENE**	95476	**ND**	UG/L	0.50		1.7
77277	**P-CHLOROTOLUENE**	106434	**ND**	UG/L	0.50		1.7
77356	**P-ISOPROPYLTOLUENE**	99876	**ND**	UG/L	0.50		1.7
77128	**STYRENE**	100425	**ND**	UG/L	0.50		1.7
34475	**TETRACHLOROETHYLENE**	127184	**ND**	UG/L	0.50		1.7
81607	**TETRAHYDROFURAN**	109999	**ND**	UG/L	3.0		10.
34010	**TOLUENE**	108883	**ND**	UG/L	0.50		1.7
39180	**TRICHLOROETHYLENE**	79016	**ND**	UG/L	0.50		1.7
34488	**TRICHLOROFLUOROMETHANE**	75694	**ND**	UG/L	1.0		3.3
81611	**TRICHLOROTRIFLUOROETHANE**	26523648	**ND**	UG/L	3.0		10.
39175	**VINYL CHLORIDE**	75014	**ND**	UG/L	0.50		1.7

Analysis Method	*Analysis Date*	*Lab Comment*
VOCS IN WATER - PREP - EPA METHOD 503	**08/2002**	

Code	*Description*	*Cas No*	*Result*	*Units*	*LOD*	*Report Limit*	*LOQ*
99385	**PREP VOCS IN WATER METHOD 8260B**		**COMPLETE**				

Analysis Method	*Analysis Date*	*Lab Comment*
TEMPERATURE ON RECEIPT-ICED - O950	**07/16/2002**	

Code	*Description*	*Cas No*	*Result*	*Units*	*LOD*	*Report Limit*	*LOQ*
136	**TEMPERATURE AT LAB**	E1645696	**ICED**			9999999	

Wisconsin Department of Natural Resources
Laboratory Report

Laboratory: Wisconsin State Laboratory of Hygiene DNR ID 113133790
2601 Agriculture Dr
Madison WI 53707
Phone : 800-442-4618 Fax Phone : 608-224-6276

Sample:

Field #: MW-14B
Sample #: ON000136
Collection Start: 07/16/2002 06:20 am
Collection End:
Collected by: JOHN R. GRUMP
Waterbody/Outfall Id:
ID #: 000508270
ID Point #: POINT ID
County: Marathon
Account #: RR025
Sample Location: ABBOTSFORD MUNICIPAL LANDFILL, GALVIN ROAD, CITY OF ABBOTSFORD
Sample Description: ON-SITE (DOWNGRADIENT) WATER TABLE OBSERVATION WELL
Sample Source: MW
Sample Depth:
Date Reported: 07/24/2002
Sample Status: COMPLETE
Project No:

Analyses and Results:

Analysis Method	Analysis Date	Lab Comment
VOCS IN WATER - EPA METHOD 8260B	07/17/2002	SAMPLE WAS NOT ACIDIFIED WITH HCL TO PH<2.

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
77562	1,1,1,2-TETRACHLOROETHANE	630206	ND	UG/L	0.50		1.7
34506	1,1,1-TRICHLOROETHANE	71556	ND	UG/L	0.50		1.7
34516	1,1,2,2-TETRACHLOROETHANE	79345	ND	UG/L	0.50		1.7
34511	1,1,2-TRICHLOROETHANE	79005	ND	UG/L	0.50		1.7
34496	1,1-DICHLOROETHANE	75343	ND	UG/L	0.50		1.7
34501	1,1-DICHLOROETHYLENE	75354	ND	UG/L	0.50		1.7
77168	1,1-DICHLOROPROPENE	563586	ND	UG/L	0.50		1.7
77613	1,2,3-TRICHLOROBENZENE	87616	ND	UG/L	0.50		1.7
77443	1,2,3-TRICHLOROPROPANE	96184	ND	UG/L	1.0		3.3
34551	1,2,4-TRICHLOROBENZENE	120821	ND	UG/L	0.50		1.7
77222	1,2,4-TRIMETHYLBENZENE	95636	ND	UG/L	0.50		1.7
38437	1,2-DIBROMO-3-CHLOROPROPANE	96128	ND	UG/L	1.0		3.3
77651	1,2-DIBROMOETHANE	106934	ND	UG/L	0.50		1.7
34536	1,2-DICHLOROBENZENE	95501	ND	UG/L	0.50		1.7
34531	1,2-DICHLOROETHANE	107062	ND	UG/L	0.50		1.7
34546	1,2-DICHLOROETHYLENE	156605	ND	UG/L	0.50		1.7
77093	1,2-DICHLOROETHYLENE CIS	156592	ND	UG/L	0.50		1.7
34541	1,2-DICHLOROPROPANE	78875	ND	UG/L	0.50		1.7
77226	1,3,5-TRIMETHYLBENZENE	108678	ND	UG/L	0.50		1.7

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
34566	1,3-DICHLOROBENZENE	541731	ND	UG/L	0.50		1.7
77173	1,3-DICHLOROPROPANE	142289	ND	UG/L	0.50		1.7
34704	1,3-DICHLOROPROPENE-CIS	10061015	ND	UG/L	0.50		1.7
34699	1,3-DICHLOROPROPENE-TRANS	10061026	ND	UG/L	1.0		3.3
34571	1,4-DICHLOROBENZENE	106467	ND	UG/L	0.50		1.7
77170	2,2-DICHLOROPROPANE	594207	ND	UG/L	1.0		3.3
78133	4-METHYL-2-PENTANONE	108101	ND	UG/L	3.0		10.
81552	ACETONE	67641	ND	UG/L	3.0		10.
34030	BENZENE	71432	ND	UG/L	0.50		1.7
81555	BROMOBENZENE	108861	ND	UG/L	0.50		1.7
77297	BROMOCHLOROMETHANE	74975	ND	UG/L	0.50		1.7
32101	BROMODICHLOROMETHANE	75274	ND	UG/L	0.50		1.7
32104	BROMOFORM	75252	ND	UG/L	1.0		3.3
34413	BROMOMETHANE	74839	ND	UG/L	1.0		3.3
77350	BUTYLBENZENE SEC	135988	ND	UG/L	0.50		1.7
77353	BUTYLBENZENE TERT	98066	ND	UG/L	0.50		1.7
77041	CARBON DISULFIDE	75150	ND	UG/L	3.0		10.
32102	CARBON TETRACHLORIDE	56235	ND	UG/L	0.50		1.7
34301	CHLOROBENZENE	108907	ND	UG/L	0.50		1.7
34311	CHLOROETHANE	75003	ND	UG/L	1.0		3.3
32106	CHLOROFORM	67663	ND	UG/L	0.50		1.7
34418	CHLOROMETHANE	74873	ND	UG/L	1.0		3.3
32105	DIBROMOCHLOROMETHANE	124481	ND	UG/L	1.0		3.3
77596	DIBROMOMETHANE	74953	ND	UG/L	0.50		1.7
34668	DICHLORODIFLUOROMETHANE	75718	ND	UG/L	1.0		3.3
81577	DIISOPROPYL ETHER	108203	ND	UG/L	3.0		10.
34371	ETHYLBENZENE	100414	ND	UG/L	0.50		1.7
34391	HEXACHLOROBUTADIENE	87683	ND	UG/L	0.50		1.7
77223	ISOPROPYLBENZENE	98828	ND	UG/L	0.50		1.7
85795	M/P-XYLENE	136777612	ND	UG/L	1.0		3.3
81595	METHYL ETHYL KETONE	78933	ND	UG/L	3.0		10.
78032	METHYL TERT BUTYL ETHER	1634044	ND	UG/L	1.0		3.3
34423	METHYLENE CHLORIDE	75092	ND	UG/L	1.0		3.3
77342	N-BUTYLBENZENE	104518	ND	UG/L	0.50		1.7

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
81590	N-HEXANE	110543	ND	UG/L	1.0		3.3
77224	N-PROPYLBENZENE	103651	ND	UG/L	0.50		1.7
34696	NAPHTHALENE	91203	ND	UG/L	0.50		1.7
77275	O-CHLOROTOLUENE	95498	ND	UG/L	0.50		1.7
77135	O-XYLENE	95476	ND	UG/L	0.50		1.7
77277	P-CHLOROTOLUENE	106434	ND	UG/L	0.50		1.7
77356	P-ISOPROPYLTOLUENE	99876	ND	UG/L	0.50		1.7
77128	STYRENE	100425	ND	UG/L	0.50		1.7
34475	TETRACHLOROETHYLENE	127184	ND	UG/L	0.50		1.7
81607	TETRAHYDROFURAN	109999	ND	UG/L	3.0		10.
34010	TOLUENE	108883	ND	UG/L	0.50		1.7
39180	TRICHLOROETHYLENE	79016	ND	UG/L	0.50		1.7
34488	TRICHLOROFLUOROMETHANE	75694	ND	UG/L	1.0		3.3
81611	TRICHLOROTRIFLUOROETHANE	26523648	ND	UG/L	3.0		10.
39175	VINYL CHLORIDE	75014	ND	UG/L	0.50		1.7

Analysis Method	Analysis Date	Lab Comment
VOCS IN WATER - PREP - EPA METHOD 503	08/07/2002	

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
99385	PREP VOCS IN WATER METHOD 8260B		COMPLETE				

Analysis Method	Analysis Date	Lab Comment
TEMPERATURE ON RECEIPT-ICED - O950	07/16/2002	

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED			9999999	

Wisconsin Department of Natural Resources
Laboratory Report

Laboratory: Wisconsin State Laboratory of Hygiene DNR ID 113133790
2601 Agriculture Dr
Madison WI 53707
Phone : 800-442-4618 Fax Phone : 608-224-6276

Sample:

Field #: B4-AB
Sample #: ON000137
Collection Start: 07/16/2002 08:01 am
Collection End:
Collected by: JOHN R. GRUMP
Waterbody/Outfall Id:
ID #: 000508270
ID Point #: POINT ID
County: Marathon
Account #: RR025
Sample Location: ABBOTSFORD MUNICIPAL LANDFILL, GALVIN ROAD, CITY OF ABBOTSFORD
Sample Description: UP-GRADIENT (BACKGROUND) PIEZOMETER
Sample Source: MW
Sample Depth:
Date Reported: 07/24/2002
Sample Status: COMPLETE
Project No:

Analyses and Results:

Analysis Method	Analysis Date	Lab Comment
VOCS IN WATER - EPA METHOD 8260B	07/17/2002	SAMPLE WAS NOT ACIDIFIED WITH HCL TO PH<2.

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
77562	1,1,1,2-TETRACHLOROETHANE	630206	ND	UG/L	0.50		1.7
34506	1,1,1-TRICHLOROETHANE	71556	ND	UG/L	0.50		1.7
34516	1,1,2,2-TETRACHLOROETHANE	79345	ND	UG/L	0.50		1.7
34511	1,1,2-TRICHLOROETHANE	79005	ND	UG/L	0.50		1.7
34496	1,1-DICHLOROETHANE	75343	ND	UG/L	0.50		1.7
34501	1,1-DICHLOROETHYLENE	75354	ND	UG/L	0.50		1.7
77168	1,1-DICHLOROPROPENE	563586	ND	UG/L	0.50		1.7
77613	1,2,3-TRICHLOROBENZENE	87616	ND	UG/L	0.50		1.7
77443	1,2,3-TRICHLOROPROPANE	96184	ND	UG/L	1.0		3.3
34551	1,2,4-TRICHLOROBENZENE	120821	ND	UG/L	0.50		1.7
77222	1,2,4-TRIMETHYLBENZENE	95636	ND	UG/L	0.50		1.7
38437	1,2-DIBROMO-3-CHLOROPROPANE	96128	ND	UG/L	1.0		3.3
77651	1,2-DIBROMOETHANE	106934	ND	UG/L	0.50		1.7
34536	1,2-DICHLOROBENZENE	95501	ND	UG/L	0.50		1.7
34531	1,2-DICHLOROETHANE	107062	ND	UG/L	0.50		1.7
34546	1,2-DICHLOROETHYLENE	156605	ND	UG/L	0.50		1.7
77093	1,2-DICHLOROETHYLENE CIS	156592	ND	UG/L	0.50		1.7
34541	1,2-DICHLOROPROPANE	78875	ND	UG/L	0.50		1.7
77226	1,3,5-TRIMETHYLBENZENE	108678	ND	UG/L	0.50		1.7

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
34566	1,3-DICHLOROBENZENE	541731	ND	UG/L	0.50		1.7
77173	1,3-DICHLOROPROPANE	142289	ND	UG/L	0.50		1.7
34704	1,3-DICHLOROPROPENE-CIS	10061015	ND	UG/L	0.50		1.7
34699	1,3-DICHLOROPROPENE-TRANS	10061026	ND	UG/L	1.0		3.3
34571	1,4-DICHLOROBENZENE	106467	ND	UG/L	0.50		1.7
77170	2,2-DICHLOROPROPANE	594207	ND	UG/L	1.0		3.3
78133	4-METHYL-2-PENTANONE	108101	ND	UG/L	3.0		10.
81552	ACETONE	67641	ND	UG/L	3.0		10.
34030	BENZENE	71432	ND	UG/L	0.50		1.7
81555	BROMOBENZENE	108861	ND	UG/L	0.50		1.7
77297	BROMOCHLOROMETHANE	74975	ND	UG/L	0.50		1.7
32101	BROMODICHLOROMETHANE	75274	ND	UG/L	0.50		1.7
32104	BROMOFORM	75252	ND	UG/L	1.0		3.3
34413	BROMOMETHANE	74839	ND	UG/L	1.0		3.3
77350	BUTYLBENZENE SEC	135988	ND	UG/L	0.50		1.7
77353	BUTYLBENZENE TERT	98066	ND	UG/L	0.50		1.7
77041	CARBON DISULFIDE	75150	ND	UG/L	3.0		10.
32102	CARBON TETRACHLORIDE	56235	ND	UG/L	0.50		1.7
34301	CHLOROBENZENE	108907	ND	UG/L	0.50		1.7
34311	CHLOROETHANE	75003	ND	UG/L	1.0		3.3
32106	CHLOROFORM	67663	ND	UG/L	0.50		1.7
34418	CHLOROMETHANE	74873	ND	UG/L	1.0		3.3
32105	DIBROMOCHLOROMETHANE	124481	ND	UG/L	1.0		3.3
77596	DIBROMOMETHANE	74953	ND	UG/L	0.50		1.7
34668	DICHLORODIFLUOROMETHANE	75718	ND	UG/L	1.0		3.3
81577	DIISOPROPYL ETHER	108203	ND	UG/L	3.0		10.
34371	ETHYLBENZENE	100414	ND	UG/L	0.50		1.7
34391	HEXACHLOROBUTADIENE	87683	ND	UG/L	0.50		1.7
77223	ISOPROPYLBENZENE	98828	ND	UG/L	0.50		1.7
85795	M/P-XYLENE	136777612	ND	UG/L	1.0		3.3
81595	METHYL ETHYL KETONE	78933	ND	UG/L	3.0		10.
78032	METHYL TERT BUTYL ETHER	1634044	ND	UG/L	1.0		3.3
34423	METHYLENE CHLORIDE	75092	ND	UG/L	1.0		3.3
77342	N-BUTYLBENZENE	104518	ND	UG/L	0.50		1.7

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
81590	N-HEXANE	110543	ND	UG/L	1.0		3.3
77224	N-PROPYLBENZENE	103651	ND	UG/L	0.50		1.7
34696	NAPHTHALENE	91203	ND	UG/L	0.50		1.7
77275	O-CHLOROTOLUENE	95498	ND	UG/L	0.50		1.7
77135	O-XYLENE	95476	ND	UG/L	0.50		1.7
77277	P-CHLOROTOLUENE	106434	ND	UG/L	0.50		1.7
77356	P-ISOPROPYLTOLUENE	99876	ND	UG/L	0.50		1.7
77128	STYRENE	100425	ND	UG/L	0.50		1.7
34475	TETRACHLOROETHYLENE	127184	ND	UG/L	0.50		1.7
81607	TETRAHYDROFURAN	109999	ND	UG/L	3.0		10.
34010	TOLUENE	108883	ND	UG/L	0.50		1.7
39180	TRICHLOROETHYLENE	79016	ND	UG/L	0.50		1.7
34488	TRICHLOROFLUOROMETHANE	75694	ND	UG/L	1.0		3.3
81611	TRICHLOROTRIFLUOROETHANE	26523648	ND	UG/L	3.0		10.
39175	VINYL CHLORIDE	75014	ND	UG/L	0.50		1.7

Analysis Method	Analysis Date	Lab Comment
VOCS IN WATER - PREP - EPA METHOD 503	07/2002	

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
99385	PREP VOCS IN WATER METHOD 8260B		COMPLETE				

Analysis Method	Analysis Date	Lab Comment
TEMPERATURE ON RECEIPT-ICED - O950	07/16/2002	

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED			9999999	

Wisconsin Department of Natural Resources
Laboratory Report

Laboratory: Wisconsin State Laboratory of Hygiene DNR ID 113133790
2601 Agriculture Dr
Madison WI 53707
Phone : 800-442-4618 Fax Phone : 608-224-6276

Sample:

Field #: B-4AA
Sample #: ON000143
Collection Start: 07/16/2002 08:04 am
Collection End:
Collected by: JOHN R. GRUMP
Waterbody/Outfall Id:
ID #: 000508270
ID Point #: POINT-ID
County: Marathon
Account #: RR025
Sample Location: ABBOTSFORD MUNICIPAL LANDFILL, GALVIN ROAD, CITY OF ABBOTSFORD
Sample Description: UP-GRADIENT (BACKGROUND) PIEZOMETER
Sample Source: MW
Sample Depth:
Date Reported: 07/24/2002
Sample Status: COMPLETE
Project No:

Analyses and Results:

Analysis Method: VOCS IN WATER - EPA METHOD 8260B
Analysis Date: 07/17/2002
Lab Comment:

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
77562	1,1,1,2-TETRACHLOROETHANE	630206	ND	UG/L	0.50		1.7
34506	1,1,1-TRICHLOROETHANE	71556	ND	UG/L	0.50		1.7
34516	1,1,2,2-TETRACHLOROETHANE	79345	ND	UG/L	0.50		1.7
34511	1,1,2-TRICHLOROETHANE	79005	ND	UG/L	0.50		1.7
34496	1,1-DICHLOROETHANE	75343	ND	UG/L	0.50		1.7
34501	1,1-DICHLOROETHYLENE	75354	ND	UG/L	0.50		1.7
77168	1,1-DICHLOROPROPENE	563586	ND	UG/L	0.50		1.7
77613	1,2,3-TRICHLOROBENZENE	87616	ND	UG/L	0.50		1.7
77443	1,2,3-TRICHLOROPROPANE	96184	ND	UG/L	1.0		3.3
34551	1,2,4-TRICHLOROBENZENE	120821	ND	UG/L	0.50		1.7
77222	1,2,4-TRIMETHYLBENZENE	95636	ND	UG/L	0.50		1.7
38437	1,2-DIBROMO-3-CHLOROPROPANE	96128	ND	UG/L	1.0		3.3
77651	1,2-DIBROMOETHANE	106934	ND	UG/L	0.50		1.7
34536	1,2-DICHLOROBENZENE	95501	ND	UG/L	0.50		1.7
34531	1,2-DICHLOROETHANE	107062	ND	UG/L	0.50		1.7
34546	1,2-DICHLOROETHYLENE	156605	ND	UG/L	0.50		1.7
77093	1,2-DICHLOROETHYLENE CIS	156592	ND	UG/L	0.50		1.7
34541	1,2-DICHLOROPROPANE	78875	ND	UG/L	0.50		1.7
77226	1,3,5-TRIMETHYLBENZENE	108678	ND	UG/L	0.50		1.7

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
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34699	1,3-DICHLOROPROPENE-TRANS	10061026	ND	UG/L	1.0		3.3
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78133	4-METHYL-2-PENTANONE	108101	ND	UG/L	3.0		10.
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34413	BROMOMETHANE	74839	ND	UG/L	1.0		3.3
77350	BUTYLBENZENE SEC	135988	ND	UG/L	0.50		1.7
77353	BUTYLBENZENE TERT	98066	ND	UG/L	0.50		1.7
77041	CARBON DISULFIDE	75150	ND	UG/L	3.0		10.
32102	CARBON TETRACHLORIDE	56235	ND	UG/L	0.50		1.7
34301	CHLOROBENZENE	108907	ND	UG/L	0.50		1.7
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32106	CHLOROFORM	67663	ND	UG/L	0.50		1.7
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77223	ISOPROPYLBENZENE	98828	ND	UG/L	0.50		1.7
85795	M/P-XYLENE	136777612	ND	UG/L	1.0		3.3
81595	METHYL ETHYL KETONE	78933	ND	UG/L	3.0		10.
78032	METHYL TERT BUTYL ETHER	1634044	ND	UG/L	1.0		3.3
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77135	O-XYLENE	95476	ND	UG/L	0.50		1.7
77277	P-CHLOROTOLUENE	106434	ND	UG/L	0.50		1.7
77356	P-ISOPROPYLTOLUENE	99876	ND	UG/L	0.50		1.7
77128	STYRENE	100425	ND	UG/L	0.50		1.7
34475	TETRACHLOROETHYLENE	127184	ND	UG/L	0.50		1.7
81607	TETRAHYDROFURAN	109999	ND	UG/L	3.0		10.
34010	TOLUENE	108883	ND	UG/L	0.50		1.7
39180	TRICHLOROETHYLENE	79016	ND	UG/L	0.50		1.7
34488	TRICHLOROFLUOROMETHANE	75694	ND	UG/L	1.0		3.3
81611	TRICHLOROTRIFLUOROETHANE	26523648	ND	UG/L	3.0		10.
39175	VINYL CHLORIDE	75014	ND	UG/L	0.50		1.7

Analysis Method	Analysis Date	Lab Comment
VOCS IN WATER - PREP - EPA METHOD 5030B	07/16/2002	

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
99385	PREP VOCS IN WATER METHOD 8260B		COMPLETE				

Analysis Method	Analysis Date	Lab Comment
TEMPERATURE ON RECEIPT-ICED - O950	07/16/2002	

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED			9999999	