February 9, 2010

Mr. Allan Timm and Ed Olson
MPCA VIC Program
520 Lafayette Road
St. Paul, MN 55155-4194

Re: Monthly Dual Phase Extraction System Effectiveness and Quarterly Groundwater Monitoring Report
MN Bio Business Center, Rochester, MN

Dear Mr. Timm and Mr. Olson:

On behalf of the City of Rochester (City) Administration Department, Landmark Environmental, LLC (Landmark) has prepared this letter to present a status update for the dual phase extraction (DPE) system installed at the above referenced property (Property), as shown in Figure 1.

Introduction

This report documents the monthly DPE system operational and analytical data from November 17, December 17, 2009, and January 14, 2010, as well as quarterly groundwater monitoring data from samples collected on November 16 and 17, 2009. The DPE system well locations and equipment layout are provided in Figures 2 and 3, respectively. A system operation and maintenance summary table is included as Table 1.

The DPE system has continued to operate sequentially at all of the DPE system wells since being switched from continuous operation at DPE-1 on October 15, 2009. The DPE system is programmed to operate on each well for 45 minutes before switching to the next well and takes 6 hours to complete one full cycle. The air sample collection method, during sequential operation of the DPE system wells, consists of a composite Summa canister which utilizes a 6-hour flow control valve.

System Operational Results

After switching the DPE system to operate sequentially on all DPE system wells, the VOC concentrations and mass removed continued to decrease through the December 17, 2009, sampling event. However, from December 17 through January 14, 2009, the DPE system lowered the groundwater elevations, exposing and removing a significant amount of contamination from the fractured bedrock. During this 28 day period, the DPE system removed 1,270 pounds of total volatile organic compounds (VOCs), including 953 pounds from perchloroethene (PCE) (see Figure 4 and Table 2). Through January 14, 2010, the DPE system has removed a total of 2,469 pounds of total VOCs and 1,988 pounds of PCE. The mass of total

VOCs and PCE removed since the October 15, 2009, sampling event was 1,317 pounds and 994 pounds, respectively.

On December 17, 2009, the concentrations of VOCs decreased from 14,613,880 micrograms per cubic meter (ug/m^3) on April 9, 2009, (the baseline emissions sampling date) to 12,510 ug/m^3 of total VOCs, a decrease of 99.9 percent (See Figure 5). PCE concentrations decreased from 11,600,000 ug/m^3 to 6,790 ug/m^3, a decrease of 99.9 percent. From December 17, 2009, to January 14, 2010, the total VOC and PCE concentrations increased to 11,403,200 and 8,550,000 ug/m^3, respectively. When compared to the baseline emissions concentrations, the total VOC and PCE concentrations from January 14, 2010, have decreased 22 and 26 percent, respectively. Emissions analytical data is provided in Table 3 and system operational data tables and field data sheets are provided in Attachment A. The emissions analytical reports are included in Attachment B.

The Minnesota Pollution Control Agency's (MPCA's) Remediation Risk Analysis Screening Spreadsheet (RRASS) spreadsheet was used to evaluate the emissions rates from the DPE system and air stripper stacks on the Property during each of the DPE system sampling events. The site specific emissions rates for PCE during the November 17 and December 17, 2009, sampling events were below the MPCA screening emissions rate (SER) for chronic risk of 16,300 micrograms per second (ug/s), and the MPCA SER for acute risk of 5,980,000 ug/s. The January 14, 2010, site specific emissions rate for PCE of 393,304 ug/s exceeded the SER for chronic risk, but was below the SER for acute risk. The RRASS emissions rates are provided in Table 4 and the RRASS spreadsheets are provided in Attachment C.

The cumulative total VOC mass removed from the DPE system groundwater discharge during air stripper operation was 0.26 pounds on January 14, 2010. The air stripper is effectively removing VOCs from the groundwater discharge and does not need to be cleaned at this time. On November 17, 2009, December 17, 2009, and January 14, 2010, the effluent groundwater discharge concentrations were below the City's Water Reclamation Plant discharge criteria of 2,130 ug/L. Mass removal data from the groundwater treatment system is provided in Table 5 and the groundwater discharge analytical data is included in Table 6. The groundwater discharge analytical reports are provided in Attachment B.

The groundwater hydrographs show an immediate rise in the groundwater elevations as a result of switching the DPE system to sequential operation of all DPE system wells on October 16, 2009. The groundwater elevations at most of the monitoring and DPE system wells peaked during the November 17, 2009, sampling event and have been decreasing gradually since. The hydrographs provided in Figures 6 and 7 show that sequential operation of all of the DPE system wells has been effective in lowering the water table at all of the DPE system and monitoring wells. The groundwater elevation data is provided in Table 7. Well construction information is provided in Table 8.

Groundwater Monitoring Results

Quarterly groundwater sampling was conducted on November 16 and 17, 2009 (see Figure 8). After approximately 7 months of DPE system operation, the PCE concentrations at the following wells have continued to decrease (see Figure 9 and Table 9): MW-14 (77%), MW-15 (91%), MW-18 (49%), MW-20 (49%), DPE-1 (98%), DPE-2 (72%), DPE-4 (86%), and DPE-8 (90%). The groundwater analytical results are included in Table 10 and the groundwater analytical reports are included in Attachment B. Groundwater monitoring field data sheets are included in Attachment A.

Per the MPCA's approval, analysis of the following natural attenuation parameters has been discontinued: dissolved calcium, dissolved organic carbon, dissolved iron, dissolved magnesium, methane, nitrate as N, sulfate, and sulfide. However, baseline natural attenuation data is provided in Table 11. Data was also collected for the following field parameters: temperature, conductivity, pH, oxidation reduction potential, dissolved oxygen, and headspace photo-ionization detector readings for each well (See Table 12).

DPE System Operation and Maintenance

The DPE system's moisture separator tank has been slowly accumulating PCE contaminated sediment since startup of the system. The DPE system extracts a mixture of soil vapor and groundwater from the subsurface. Groundwater is separated from the air phase when is passes through a moisture separator. During this process, a small percentage of bedrock sediment settles out of the groundwater and collects on the bottom of the moisture separator tank. After seven months of operation, the DPE system has generated approximately 150 pounds of sediment, or approximately 22 pounds per month. Sediment is routinely removed from the moisture separator tank and placed into a 55-gallon drum located inside the DPE room. A sediment sample was collected on October 27, 2009, and analyzed for Toxicity Characteristic Leaching Potential (TCLP) VOCs using EPA 8260 Leachate Method. PCE, the only parameter detected, was detected at a concentration of 185 micrograms per liter, which is below the Toxicity Characteristic Wastes Maximum Contaminant Concentration of 700 ug/L for PCE. In an email to Ed Olson and Al Timm of the MPCA dated December 3, 2009, Landmark submitted an MPCA Site Remediation Hazardous Waste Determination Document to be used for determining the proper disposal method for the sediment. The Hazardous Waste Determination Document is provided in Attachment D and the sediment sample laboratory analytical report is included in Attachment B.

Conclusions

After analyzing the data from the monthly DPE system and quarterly groundwater monitoring and sampling events, the following conclusions can be made:

- The DPE system is operating as designed and has removed a significant amount of VOCs in a short period of time.

  - From June 29, 2009, through January 14, 2010, the DPE system has removed 2,469 pounds of total VOCs and 1,988 pounds of PCE from the subsurface.

  - From December 17, 2009, through January 14, 2010, the DPE system effectively lowered the water table exposing a new pocket of source area contamination in the fractured bedrock. During this 28 day period, 1,270 pounds of total VOCs, including 953 pounds from PCE, were removed by the DPE system.

  - DPE system emissions concentrations of VOCs and PCE from January 14, 2010, have decreased 22 and 26 percent, respectively, when compared to the baseline emissions concentrations.

- The site specific emissions rates for PCE during the November 17 and December 17, 2009, sampling events were below the MPCA SER for chronic and acute risk.

- The January 14, 2010, site specific emissions rates for PCE of 393,304 ug/s exceeded the SER for chronic risk, but was below the SER for acute risk.

- The groundwater treatment system is operating as designed by reducing the groundwater discharge concentrations of VOCs to below the discharge criteria of the City's Water Reclamation Plant.

- Sequential operation of all DPE system wells has effectively lowered the water table at the Property.

- DPE system operation has effectively decreased the concentrations of PCE in the groundwater at the following wells: MW-14 (77%), MW-15 (91%), MW-18 (49%), MW-20 (49%), DPE-1 (98%), DPE-2 (72%), DPE-4 (86%), and DPE-8 (90%).

- The TCLP PCE concentration in the sediment from the moisture separator tank was detected at a concentration of 185 micrograms per liter, which is below the Toxicity Characteristic Wastes Maximum Contaminant Concentration of 700 ug/L for PCE.

Recommendations

Landmark recommends sequential operation of all eight DPE wells for the next couple of months, or until a significant decrease in emissions concentrations and mass removed is observed. At that time, Landmark recommends switching the system to operate continuously at DPE-1 until a significant decrease in emissions concentrations and mass removed is observed.

Although the January 14, 2010, site specific emissions rates for PCE exceeded the SER for chronic risk, Landmark does not recommend emissions treatment. Based on the emissions

results from the first six months of system operation, the site specific emissions rate for PCE will likely decrease to levels below the SER for chronic risk in 30 to 60 days. In addition, the nearest receptor, the Franklin Heating Station (a steam generation plant), is not occupied by tenants who would be exposed to chronic risk.

Landmark recommends the MPCA issue a Hazardous Waste Determination letter allowing the sediment generated from the moisture separator tank to be disposed of as non-hazardous waste at a Subtitle D landfill, because the TCLP PCE concentration in the sediment is less than the Toxicity Characteristic Wastes – Maximum Contaminant Concentration for PCE.

Additional monthly system operational, analytical, and fluid level data will be collected to better evaluate the system's effectiveness at accomplishing remedial goals, and to make adjustments as necessary to increase effectiveness. This data will be carefully monitored and analyzed, and system adjustments will be made to maintain efficient mass recovery.

Groundwater monitoring will continue on a quarterly basis to assist in evaluating the effect of the DPE system on VOC concentrations in the groundwater.

If you have any questions or require additional information, please feel free to contact me at jskramstad@landmarkenv.com and (952) 887-9601, extension 205.

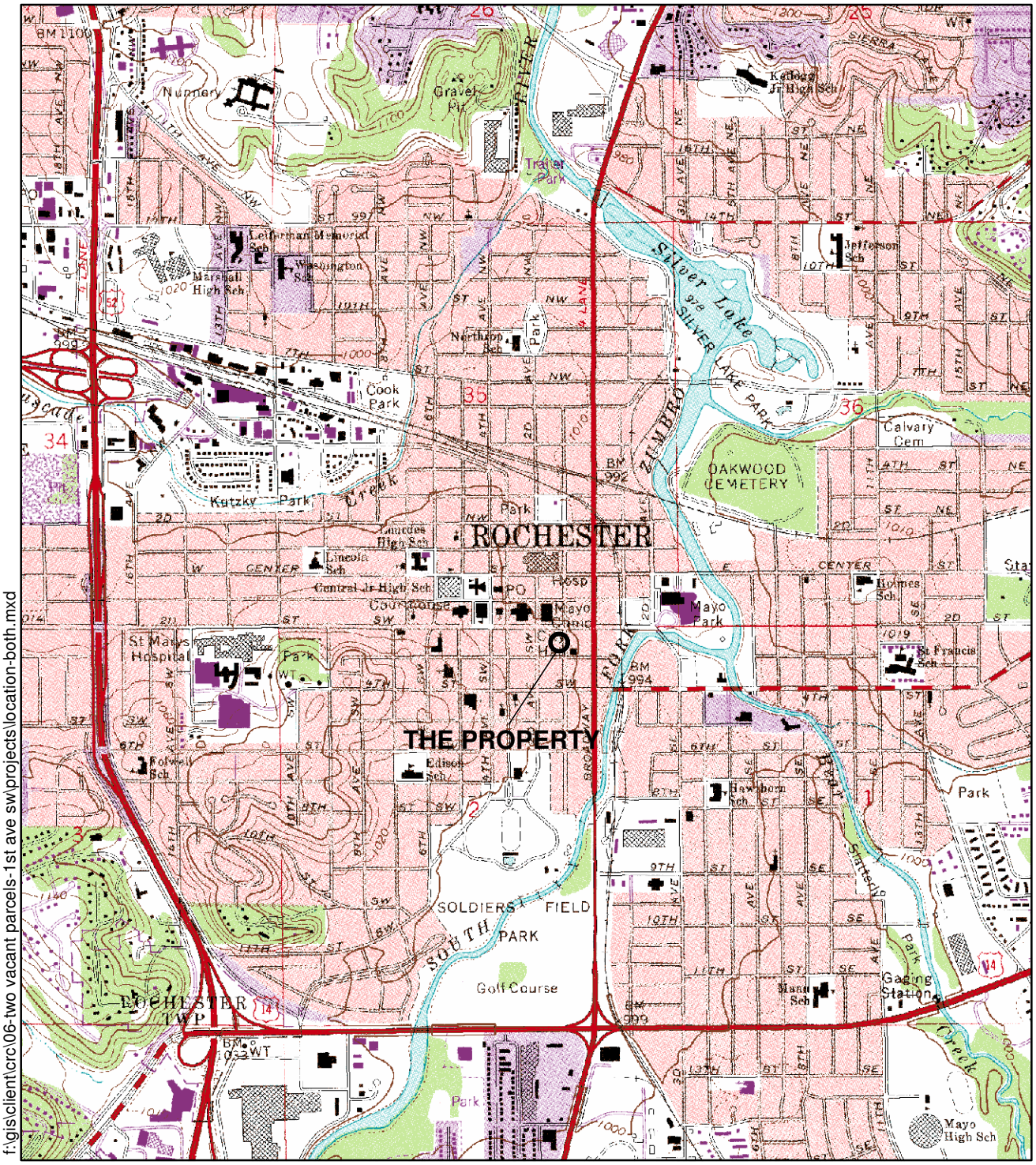
Sincerely,

Jason D. Skramstad, P.E.

Cc: Terry Spaeth, City of Rochester

F:\PROJECTS\Crc \Monthly System Reports\20100208 DPE GW\20100208 Monthly System Report - Final

Figures



f:\gis\client\crc\06-two vacant parcels-1st ave sw\projects\location-both.mxd

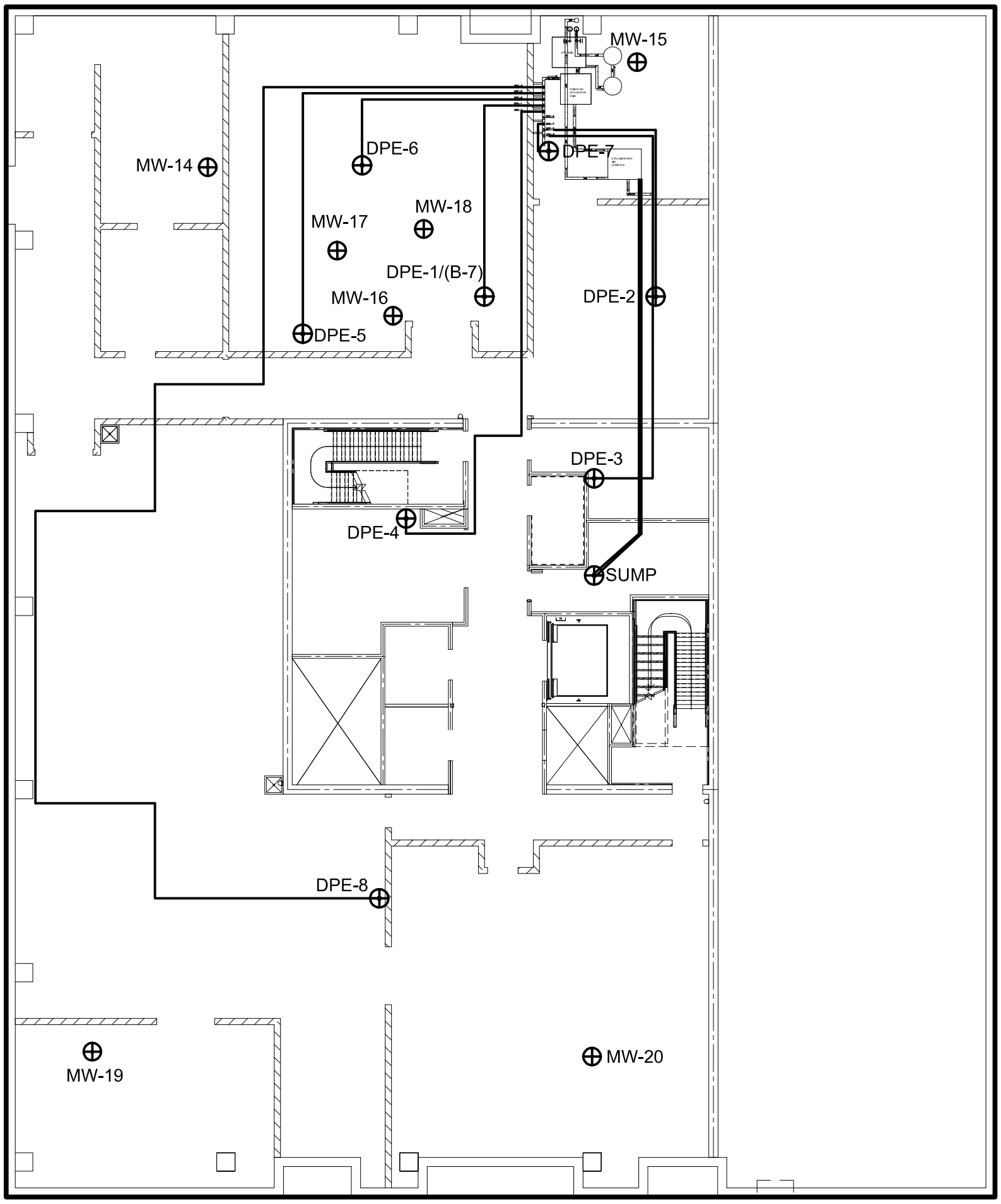
Source: Rochester, Minnesota Topographic Quadrangle, 7.5-Minute Series

N

2,000 1,000 0 2,000 Feet

FIGURE 1

PROPERTY LOCATION MAP
219 and 223 1ST Avenue Southwest
Rochester, Minnesota



BASEMENT FLOOR PLAN

LEGEND

⊕ DPE, Monitoring Well, or Sump Location

DPE Piping Location

Property Boundary

N

20 feet
SCALE

BASE DRAWINGS PROVIDED BY HGA
F:/Projects/CRC/CAD/basement planview\DPE AS Layout.dwg

Rev	Date	By	Description

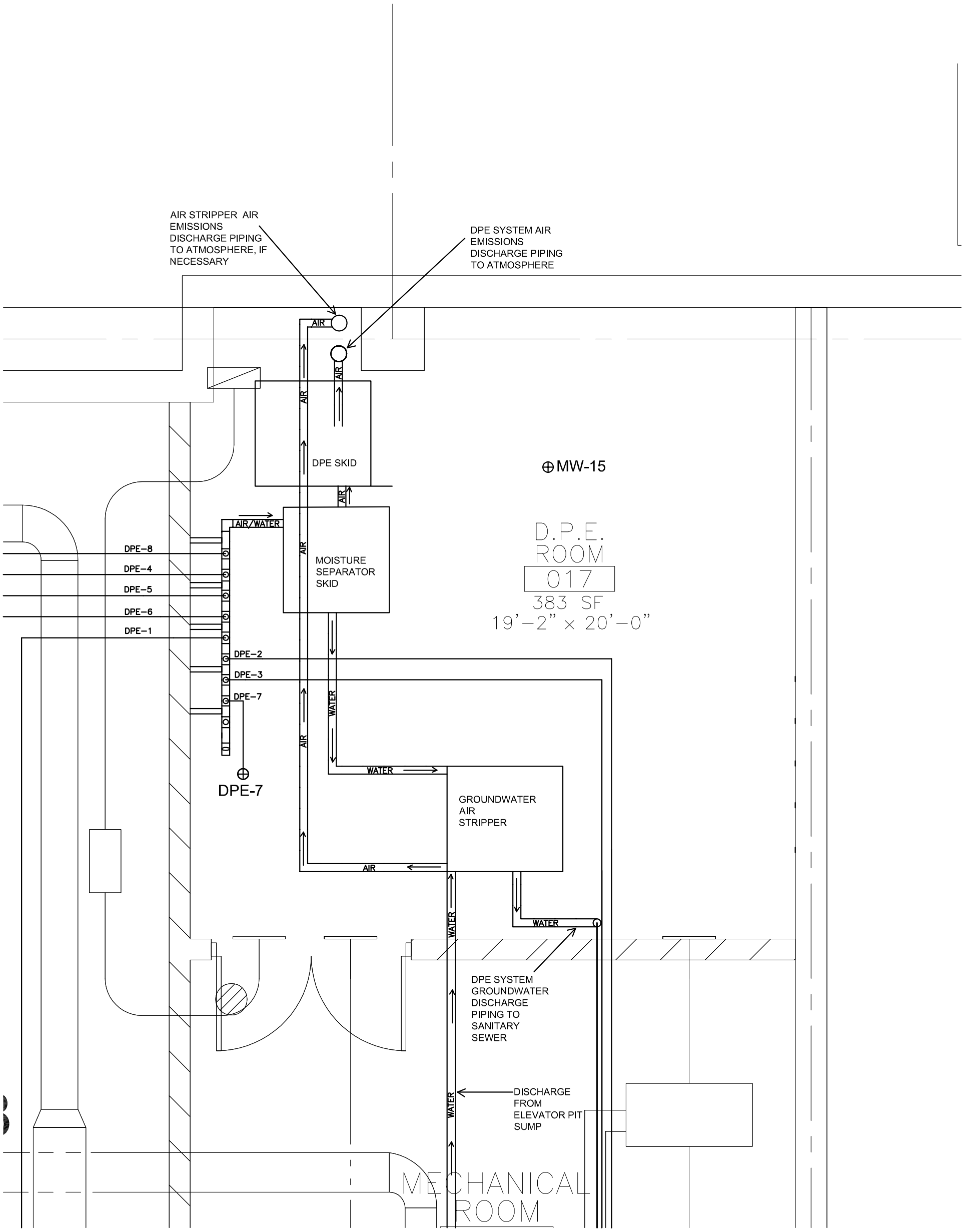
LANDMARK ENVIRONMENTAL, LLC
2042 West 98th Street
Bloomington, MN 55431

FIGURE 2

DPE SYSTEM LAYOUT

221 FIRST AVENUE S.W.
ROCHESTER, MINNESOTA

Landmark Project Number: CRC		
Drawn: JDS	Checked: JDS	Designed: JDS
Scale: .	Date: 7/9/2009	Revision:
Drawing Number: .	Sheet . Of .	Sheets .



LEGEND

N

Existing DPE Piping Location

AIR — Proposed Air Emissions Piping Location

WATER — Proposed Groundwater Discharge Piping Location

1 in = 3 ft
APPROXIMATE SCALE

BASEDRAWINGS PROVIDED BY HGA
F:/Projects/CRC/CAD/basement planview/20070829 DPE System/20091005 DPE Room.dwg

Rev	Date	By	Description

LANDMARK ENVIRONMENTAL, LLC
2042 West 98th Street
Bloomington, MN 55431

FIGURE 3

DPE ROOM LAYOUT

221 FIRST AVENUE S.W.
ROCHESTER, MINNESOTA

Landmark Project Number: CRC		
Drawn: JDS	Checked: JDS	Designed: JDS
Scale: 1:3	Date: 2/8/2010	Revision:
Drawing Number: .	Sheet Of	Sheets

FIGURE 4

CUMULATIVE MASS REMOVED
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

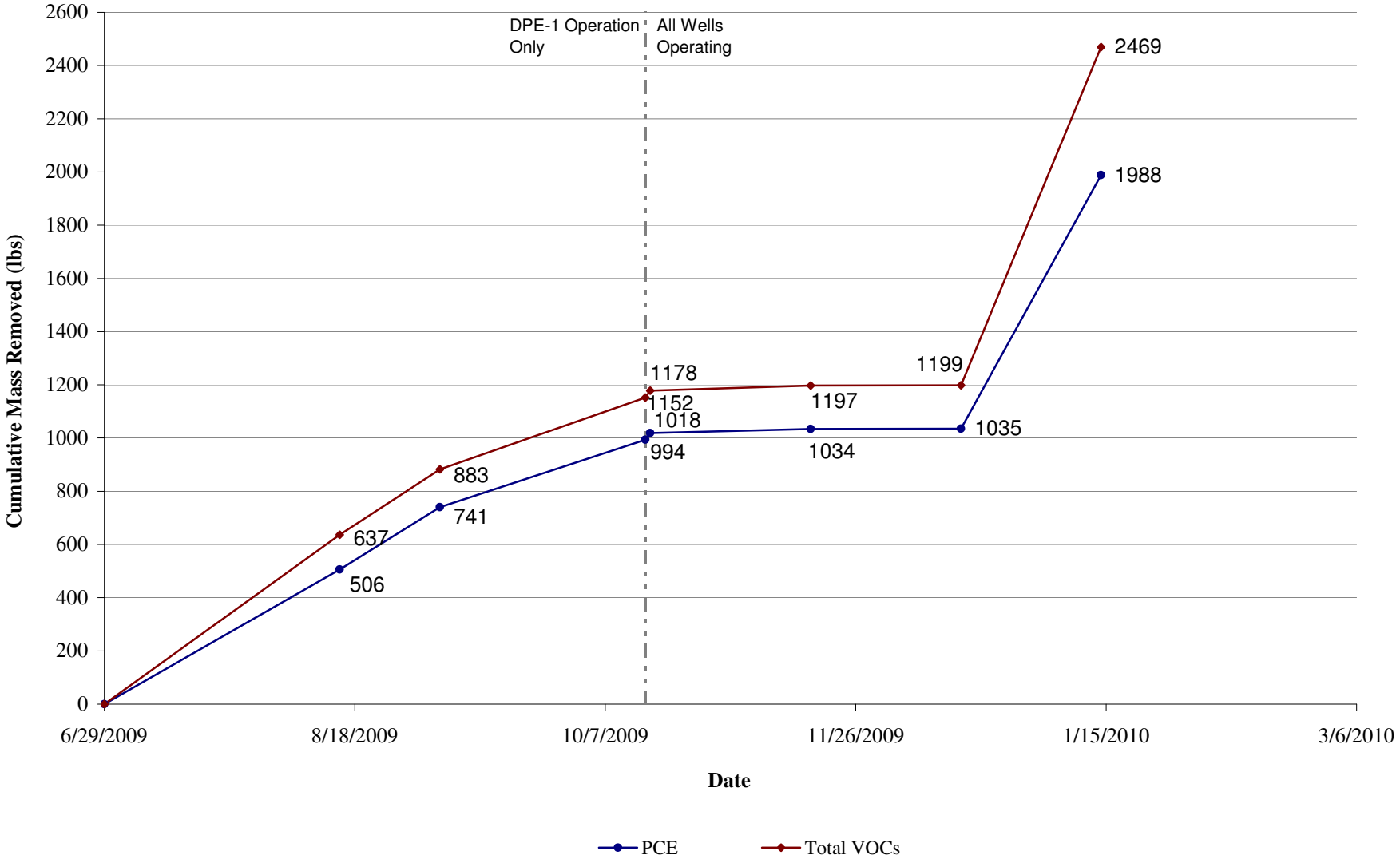


FIGURE 5

DPE EMISSIONS CONCENTRATIONS
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

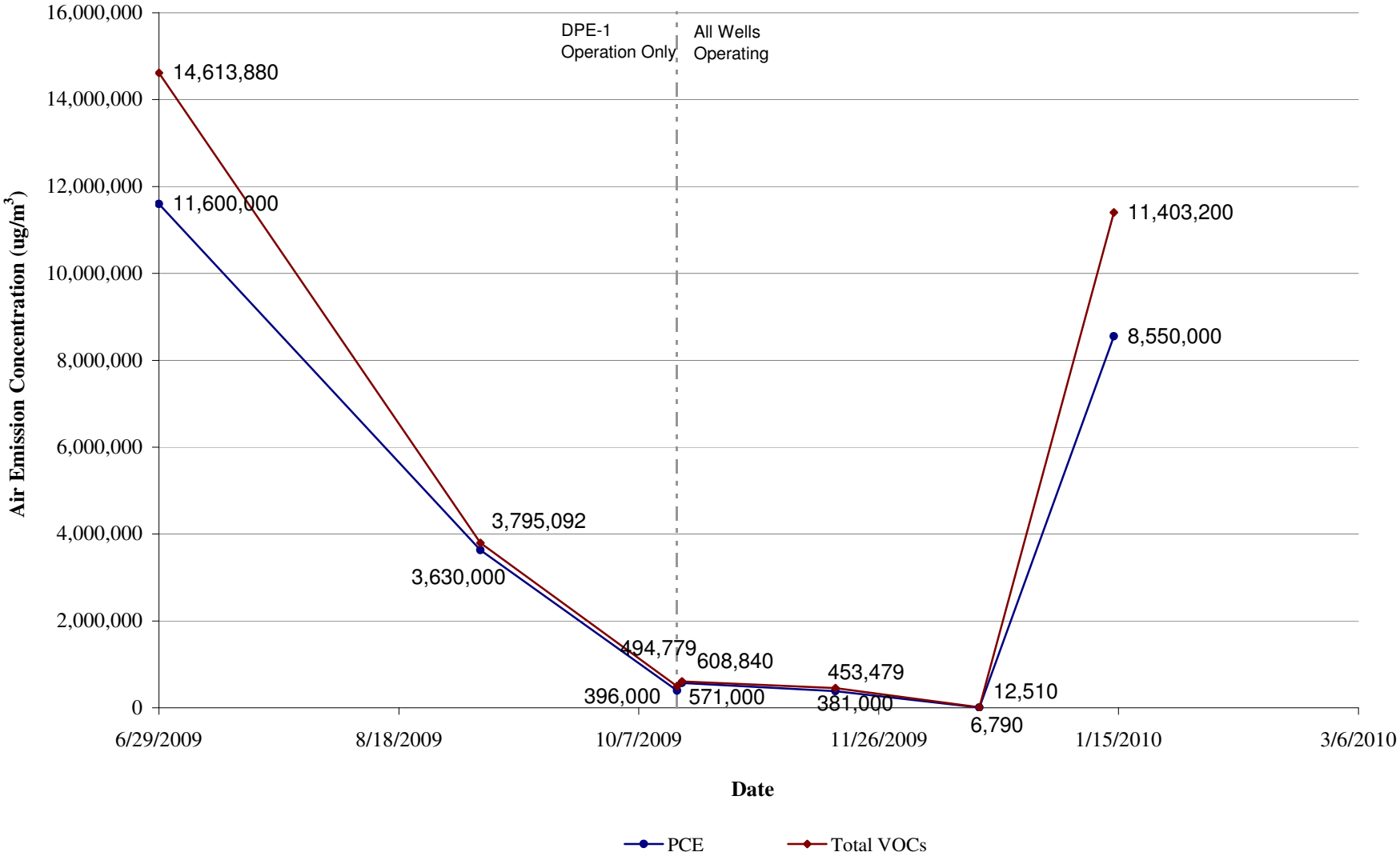


FIGURE 6

DPE WELL HYDROGRAPHS
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

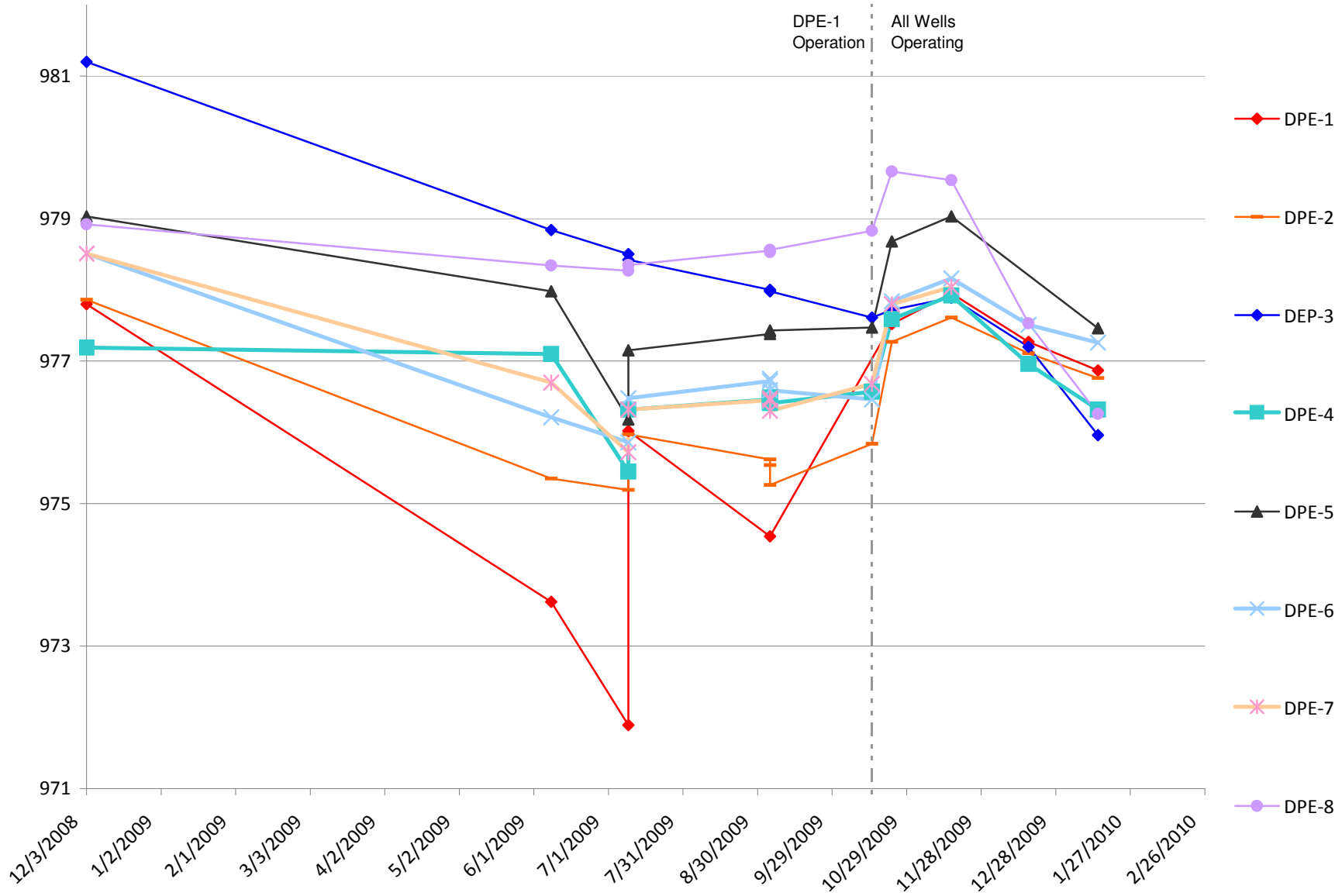
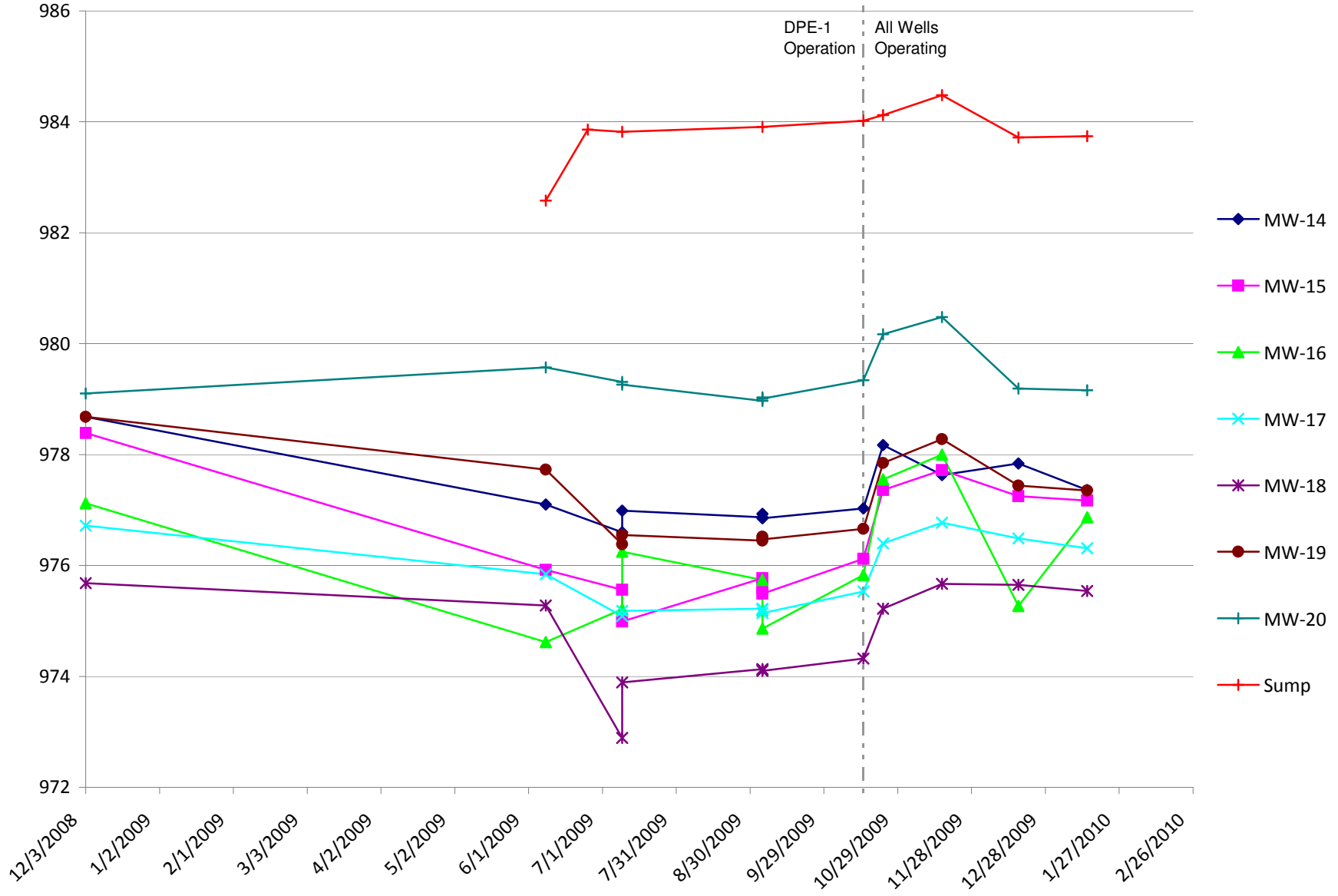
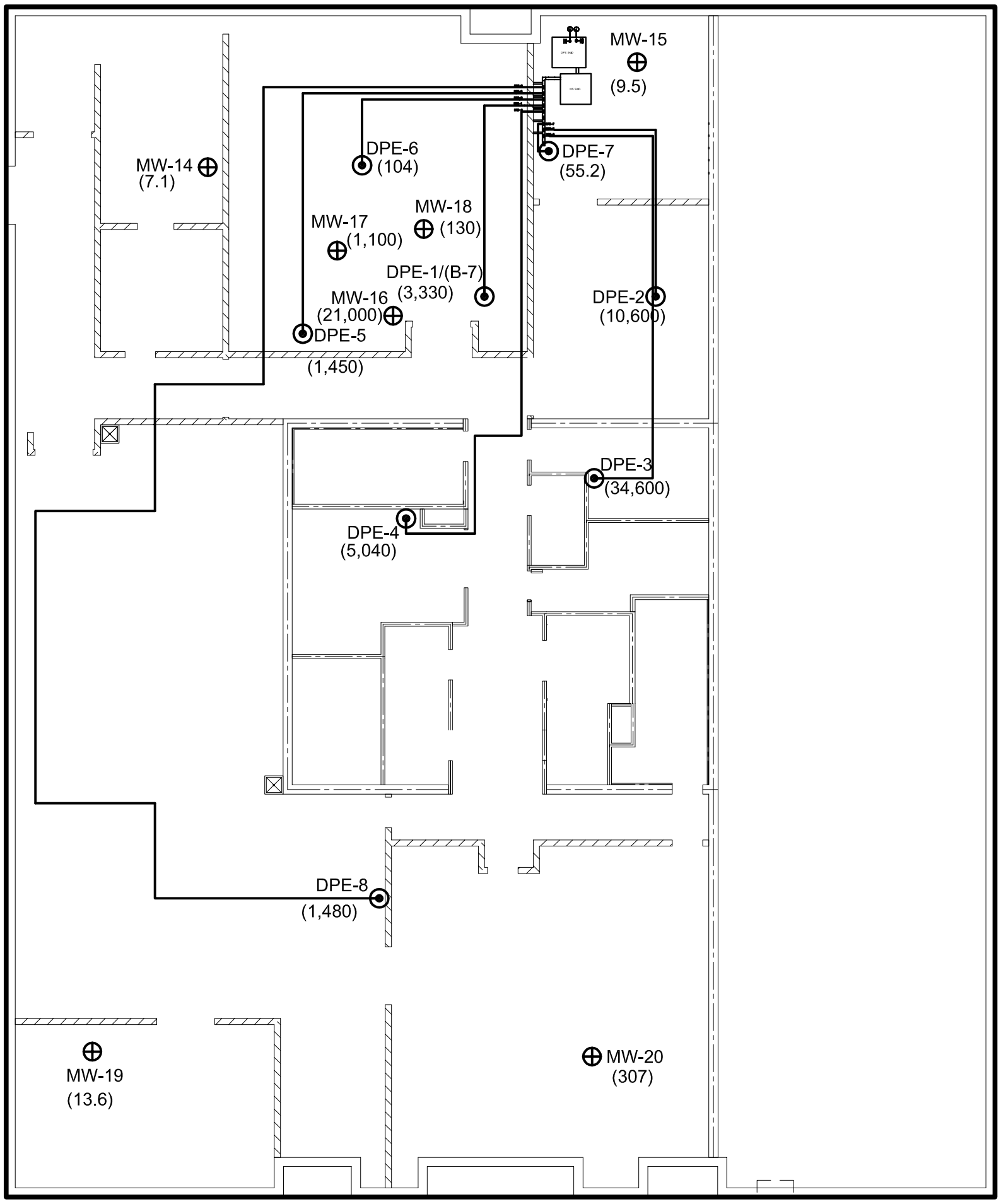


FIGURE 7

MONITORING WELL AND SUMP HYDROGRAPHS
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota





BASEMENT FLOOR PLAN

LEGEND

- DPE Well Location
- Monitoring Well Location
- (13.6) PCE Concentration in ug/L
- DPE Piping Location
- Property Boundary

N

20 feet
SCALE

BASE DRAWINGS PROVIDED BY HGA
F:/Projects/CRC/CAD/Groundwater Data/20091116 GW Results.dwg

Rev	Date	By	Description

LANDMARK ENVIRONMENTAL, LLC
2042 West 98th Street
Bloomington, MN 55431

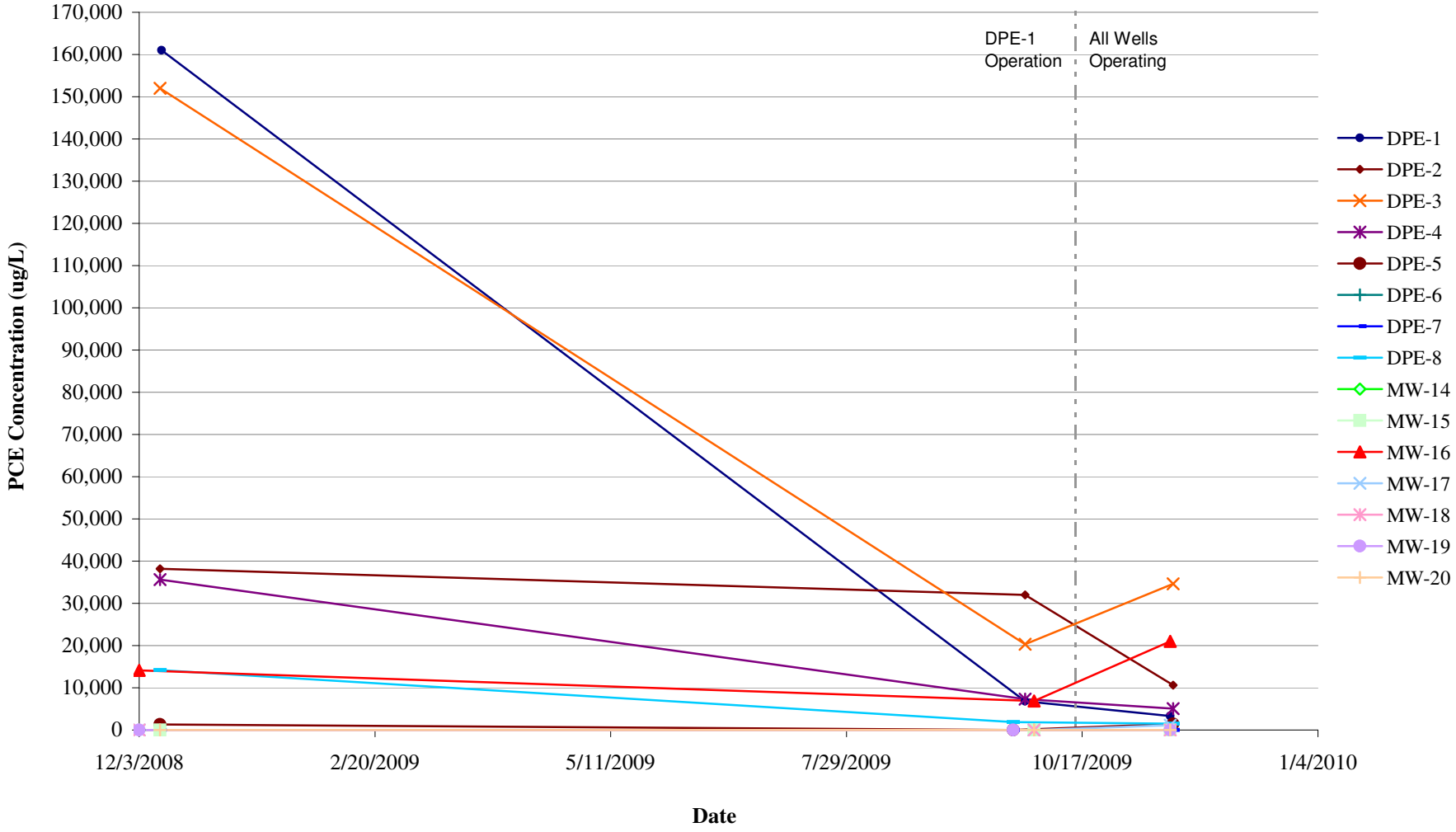
FIGURE 8

NOVEMBER 2009 -
PCE GROUNDWATER CONCENTRATIONS
221 FIRST AVENUE S.W.
ROCHESTER, MINNESOTA

Landmark Project Number: CRC		
Drawn: JDS	Checked: JDS	Designed: JDS
Scale: .	Date: 2/9/2010	Revision:
Drawing Number: .	Sheet . Of .	Sheets .

FIGURE 9

PCE CONCENTRATION SUMMARY
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota



Tables

TABLE 1

SYSTEM OPERATION AND MAINTENANCE SUMMARY
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Date	Approximate Time	Sensophone Call Received?	Alarm Condition	DPE System Status	Comments
9-Apr-09	NA	NA	NA	Off	DPE system temporarty startup. **Sampled initial DPE groundwater discharge and air emissions.** System shut down to determine if air emissions and/or groundwater treatment were necessary.
4-Jun-09	NA	NA	NA	Off	Air stripper installed. **Air stripper air emissions and influent and effluent groundwater samples collected.**
5-Jun-09	NA	NA	NA	Off/On	Installed temporary secondary containment around DPE room door way. DPE system left on.
6-Jun-09	19:00	Y	MS High Level	On/Off	
8-Jun-09	NA	NA	NA	Off	Landmark on site to clean MS float switch assembly. DPE system left off per client request until elevator pit drain tile sump can be connected to the air stripper, a permanent secondary containment berm can be installed, and additional floor sump alarm and conductivity meter can be installed.
19-Jun-09	NA	NA	NA	Off	Landmark onsite to monitor elevator pit sump water levels and PID readings.
23-Jun-09	NA	NA	NA	Off	Landmark, SDE, and Muska on site to install permanent secondary containment berm and sump pit flow meter.
25-Jun-09	NA	NA	NA	Off	Landmark and PLC on site to terminate switches to the control panel. Noticed lower trilevel float switch is getting caught on the site tube. PLC to replace MS trilevel float assembly. Pumped 300 gallons of water from elevator drain tile sump through the air stripper. Sump appears to be recharging with water.
29-Jun-09	NA	NA	NA	Off/On	Landmark replaced MS trilevel float assembly. Bottom float still catches on site tube; therefore, Landmark installed JB-welded washers onto float assembly. Also compared flow meter readings with handheld monitor; replaced leaking air stripper hoses; recorded all system data from gauges and control panel. System restarted for permanent operation.
9-Jul-09	NA	NA	NA	On	Landmark onsite to troubleshoot low flowrate and vacuum readings observed remotely, to collect fluid level measurements at each well, to check the vacuum influence from DPE-1 operation at each DPE well head location; collect operational data during operation of DPE-1; to conduct a groundwater recovery test a DPE-1; modified the drop tube at DPE-3; and collected operational data wile operating on DPE-3. Kept system operating on DPE-1. **Sampled groundwater discharge.**
18-Jul-09	NA	No	DPE Pump Motor Fault	On/Off	
20-Jul-09	NA	NA	DPE Pump Motor Fault	Off	Received a call from Paramark stating the DPE was off and there was about 1 quart of oil leaking from the DPE pump.
22-Jul-09	NA	NA	DPE Pump Motor Fault	Off	Landmark onsite to troubleshoot DPE system shut down and determine the source of the oil leak.
24-Jul-09	NA	NA	DPE Pump Motor Fault	Off	Landmark and PLC onsite to remove DPE pump and deliver to John Henry Foster for Repair.

TABLE 1

SYSTEM OPERATION AND MAINTENANCE SUMMARY
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Date	Approximate Time	Sensophone Call Received?	Alarm Condition	DPE System Status	Comments
11-Aug-09	NA	NA	DPE Pump Motor Fault	Off/On	Landmark and PLC onsite to reinstall repaired DPE pump and restart the system. Landmark installed thermometer to monitor the ambient and max temperature in the DPE room in two different locations. Landmark swept, vacuumed, and mopped the floor several times to prevent dust from passing through the vacuum relief valve and clogging the pump inlet screen. PLC fixed the sensaphone. PLC and Landmark checked flow rate readings with blower curve. DPE system was restarted.
14-Aug-09	13:17	Y	DPE Pump High Inlet Vacuum	On/Off/On	Paramark opened all of the individual DPE well bleed valves and restarted the system.
16-Aug-09	4:34	Y	DPE Pump High Outlet Temperature	On/Off	
17-Aug-09	NA	NA	DPE Pump High Outlet Temperature	Off/On	Paramark checked max room temperature readings and all were OK. Paramark could not restart the DPE system. Landmark onsite to troubleshoot the pump and determined the inlet screen was plugged. Landmark cleaned the inlet screen, replaced the moisture separator filter, and restarted the system. The system was adjusted to run with the DPE pump bleed valve open 5% and the DPE-1 bleed valve open 20%.
18-Aug-09	4:15	Y	DPE Pump High Inlet Vacuum	On/Off	Landmark tried restarting the system remotely, but the system would not operate for more than 30 seconds. A pressure drop was observed while trying to restart the system indicating the moisture separator filter or pump inlet screen was plugged.
20-Aug-09	NA	NA	DPE Pump High Inlet Vacuum	Off/On	Landmark onsite to troubleshoot system shutdown. Landmark verified the shutdown was the result of a plugged pump intake screen. The screen was cleaned with hydrochloric acid and reinstalled. Landmark installed a pipe plug in place of the vacuum relief valve to determine if the material plugging the screen is entering through the vacuum relief valve. Landmark added slits to DPE-1 drop tube to facilitate dewatering of the well. System restarted with DPE-1 bleed air valve opened 50% and pump bleed valve closed.
22-Aug-09	5:30	Y	DPE Pump High Inlet Vacuum	On/Off	
24-Aug-09	NA	NA	DPE Pump High Inlet Vacuum	Off/On	Restarted system remotely. Directed Paramark to open DPE-1 bleed valve 100%.
4-Sep-09	NA	NA	NA	On	Landmark on site to conduct **monthly monitoring and sampling event**, install 1 micron moisture separator filter, and install new pump intake screen.

TABLE 1

SYSTEM OPERATION AND MAINTENANCE SUMMARY
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Date	Approximate Time	Sensophone Call Received?	Alarm Condition	DPE System Status	Comments
16-Sep-09	19:26	Y	DPE Pump High Inlet Vacuum	On/Off	
17-Sep-09	NA	NA	DPE Pump High Inlet Vacuum	Off/On	Restarted system remotely. Directed Paramark to open DPE-1 bleed valve 100%.
28-Sep-09	NA	NA	NA	On	Landmark on site to conduct **quarterly groundwater monitoring and sampling event**, and spray aluminum pump inlet components with dry lube to prevent corrosion.
	21:22	Y	DPE Pump High Inlet Vacuum	On/Off	
29-Sep-09	NA	NA	DPE Pump High Inlet Vacuum	Off/On	Landmark and PLC on site to troubleshoot alarm. The rubber hose between the moisture separator and the DPE pump was found to be defective. The rubber hose was replaced and the system was restarted.
30-Sep-09	6:32	Y	MS High Level	Off	
	NA	NA	MS High Level	Off/On	Landmark on site to finish **quarterly groundwater monitoring and sampling event**, and clean the float switches controlling the moisture separator transfer pump. The DPE system was restarted.
10/15/2009 and 10/16/09	NA	NA	NA	On	Landmark on site to conduct **monthly monitoring and sampling event** and modify all of the wells for sequential operation.
19-Oct-09	18:00	Y	MS High Level	On/Off	
23-Oct-09	NA	Yes	NA	Off/On	Landmark on site to clean the MS float assembly, replace MS hose with SCH 80 pipe and union, and install bleed air port on DPE-3 water level drop tube.
25-Oct-09	8:15	Y	MS High Level	On/Off	
27-Oct-09	NA	Yes	NA	Off/On	Landmark on site to clean MS float assembly, remove sediment from the MS, collect a TCLP VOC sediment sample for haz waste characterization, and modify the drop tube for DPE-3.
	14:15	Y	Hi Vacuum and Hi Inlet Vacuum	On/Off	System shut down from DPE-4's solenoid valve which was stuck in the off position.
28-Oct-09	NA	NA	Hi Vacuum and Hi Inlet Vacuum	Off/On	Under Landmark's direction, Paramark was able to get DPE-4's solenoid valve to work.
2-Nov-09	23:15	Y	Hi Vacuum and Hi Inlet Vacuum	On/Off	System shut down from high inlet vacuum while operating at DPE-8.
3-Nov-09	11:15	NA	Hi Vacuum and Hi Inlet Vacuum	Off/On	System restarted remotely by Landmark.

TABLE 1

SYSTEM OPERATION AND MAINTENANCE SUMMARY
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Date	Approximate Time	Sensophone Call Received?	Alarm Condition	DPE System Status	Comments
5-Nov-09	11:16	Y	Hi Vacuum and Hi Inlet Vacuum	On/Off	System shut down from high inlet vacuum while operating at DPE-8.
	11:36	NA	Hi Vacuum and Hi Inlet Vacuum	Off/On	System restarted remotely by Landmark. DPE-8 interval replaced by DPE-1 until Landmark is on site to modify the DPE-8's well head. Large pressure drop observed between VT1 an VT2. With Paramark's assistance, Landmark was able to determine the pressure drop was from a plugged DPE pump inlet screen.
	13:00	NA	NA	On/Off	Large pressure drop observed between VT1 an VT2 while Landmark checked the system remotely. With Paramark's assistance, Landmark was able to determine the pressure drop was from a plugged DPE pump inlet screen. System shut down by Landmark until screen could be cleaned.
6-Nov-09	NA	NA	NA	Off/On	Landmark onsite to install new inlet screen on DPE pump, tighten air stripper rods, inspect and clean inside of DPE-1 and DPE-3 aluminum solenoid valves, and restart the system.
7-Nov-09	20:15	Y	Hi Vacuum and Hi Inlet Vacuum	On/Off	System shut down from high inlet vacuum while operating at DPE-4.
9-Nov-09	10:58	NA	Hi Vacuum and Hi Inlet Vacuum	Off/On	Landmark restarted the system remotely and adjusted the high vacuum alarm setpoints to 25 in. Hg.
15-Nov-09	6:27	Y	MS High Level	On/Off	
11/16/2009 and 11/17/09	NA	NA	MS High Level	Off/On	Landmark on site to conduct **monthly monitoring and sampling event** and **quarterly groundwater monitoring event.** Removed sediment from moisture separator, and modified DPE-8 well head, and cleaned pump inlet screen.
26-Nov-09	3:45	Y	DPE Pump Hi Outlet Temperature	On/Off	
27-Nov-09	NA	NA	DPE Pump Hi Outlet Temperature	Off/On	Landmark on site to clean the pump inlet screen and restart the system.
4-Dec-09	NA	NA	NA	On/Off	Landmark on site to clean slenoid valves and apply corrosion resistant coating to valves; DPE-4 and DPE-5 well heads modified to entrain air through water level port.
7-Dec-09	NA	NA	NA	Off/On	Landmark on site to reassemble solenoid valves; raise the manifold 1 foot; clean the pump inlet screen; and restart the system.
17-Dec-09	NA	NA	NA	On	Landmark on site to **conduct monthly monitoring and sampling event,** replace pump inlet screen, clean moisture separator, and clean floats.
28-Dec-09	NA	NA	NA	On	Landmark on site to replace pump inlet screen after remote monitoring indicated it was about to shut down from being clogged.
11-Jan-10	NA	NA	NA	On/Off	Landmark shut down the system remotely after the remote data indicated the pump inlet screen was clogged and about to shut down the system.

TABLE 1

SYSTEM OPERATION AND MAINTENANCE SUMMARY
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Date	Approximate Time	Sensophone Call Received?	Alarm Condition	DPE System Status	Comments
14-Jan-10	NA	NA	NA	Off/On	Landmark on site to **conduct monthly monitoring and sampling event,** clean pump inlet screen, and clean moisture separator floats.
23-Jan-10	14:15	Y	DPE Pump High Inlet Vacuum	On/Off	
27-Jan-10	NA	NA	DPE Pump High Inlet Vacuum	Off/On	Landmark on site to clean the pump inlet screen and restart the system.
30-Jan-10	18:58	Y	MS High Level	On/Off	
3-Feb-10	NA	NA	MS High Level	Off/On	Landmark onsite to clean the transfer pump floats, clean the moisture separator, and clean the pump inlet screen.
3-Feb-10	22:09	Y	MS High Level	On/Off	
4-Feb-10	14:50	NA	MS High Level	Off/On	Landmark directed Paramark to pour tap water through the site tube to dislodge the low level transfer pump float and restart the system.

NA: Not Applicable.
Y: Yes.
N: No.

TABLE 2

MASS REMOVAL FROM DPE EXHAUST
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Monitoring Period						Total VOCs			PCE		
Start Date	End Date	DPE Well(s) Operating	DPE Pump Hours	Hours Per Period	Total Flow Rate (scfm)	Concentration (ug/m^3)	Pounds Per Period	Cumulative pounds	Concentration (ug/m^3)	Pounds Per Period	Cumulative Pounds
---	6/29/2009		0	0	0	0	0	0	0	0	0
6/29/2009	8/15/2009	DPE-1	478.5	478.5	24.3	14,613,880	636.97	636.97	11,600,000	505.61	505.61
8/15/2009	9/4/2009	DPE-1	957	478.5	36.1	3,795,092	245.74	882.71	3,630,000	235.05	740.66
9/4/2009	---	DPE-1	1428	471	36.1	3,795,092	241.89	1,124.60	3,630,000	231.37	972.02
---	10/15/2009	DPE-1	1899	471	31.6	494,779	27.60	1,152.21	396,000	22.09	994.12
10/16/2009	---	All Wells	1899	231	48.9	608,840	25.78	1,177.99	571,000	24.18	1018.30
---	11/17/2009	All Wells	2361	231	48.9	453,479	19.20	1,197.19	381,000	16.13	1034.43
11/17/2009	12/17/2009	All Wells	2960	599	48.9	12,510	1.37	1,198.56	6,790	0.75	1035.17
12/17/2009	1/14/2010	All Wells	3568	608	48.9	11,403,200	1270.88	2,469.45	8,550,000	952.89	1988.07

Notes:

1. The initial concentrations of total VOCs and PCE used for estimating the mass removed during the first 478.5 hours of system operation, which was estimated to be from, June 29, 2009, through August 15, 2009.
2. The concentrations of total VOCs and PCE from the September 4, 2009, sampling event were used for estimating the mass removed during the remaining 478.5 hours of system operation, which was estimated to be from August 15, 2009, through September 4, 2009.
3. The DPE system was temporarily started on April 9, 2009, for baseling DPE emissions sampling and analysis. The analytical data from April 4, 2009, was used for the emissions calculations on the estimated DPE system start date of June 29, 2009.
4. The flow rate used for the 10/15/09 calculations was from operation at DPE-1.
5. The flow rate used for the 11/17/09, 12/17/09, and 1/14/10 calculations was from averaging the flowrates on 11/17/09 from each well during sequential operation of all DPE wells.

TABLE 3

AIR EMISSIONS ANALYTICAL RESULTS
(micrograms per cubic meter)
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Sample ID	DPE OUTLET 1042	DPE-OUTLET 0903	DPE-OUTLET 1254	DPE-EFFLUENT 531	DPE-EFFLUENT 253	DPE - EFFLUENT 0680	DPE EXHAUST 842
Wells Operating	All DPE Wells	All DPE Wells	All DPE Wells	All DPE Wells	DPE-1	DPE-1	DPE-1
Sample Collection Method	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	Grab	Grab	Grab
Collected Date	1/14/2010	12/17/2009	11/17/2009	10/16/2009	10/15/2009	9/4/2009	4/9/2009
1,1,1-Trichloroethane	ND	**23.9**	ND	**81.7**	**4.2**	**127**	**4,450**
1,1,2,2-Tetrachloroethane	ND	ND	ND	<2.2	<2.1	<2.1	<2480
1,1,2-Trichloroethane	ND	ND	ND	<1.7	<1.6	<1.6	<1950
1,1,2-Trichlorotrifluoroethane	**2,720,000**	**4,440**	**72,100**	**172**	**97,900**	**153,000**	**2,940,000**
1,1-Dichloroethane	ND	ND	ND	<1.3	<1.2	<1.2	<1450
1,1-Dichloroethene	ND	ND	ND	**13.9**	<1.2	15.0	<1440
1,2,4-Trichlorobenzene	ND	ND	ND	<1.5	<1.5	<1.5	<1760
1,2,4-Trimethylbenzene	ND	ND	ND	<3.8	<3.7	**10.2**	<4440
1,2-Dibromoethane (EDB)	ND	ND	ND	<2.5	<2.4	<2.4	<2840
1,2-Dichlorobenzene	ND	ND	ND	<1.8	<1.8	<1.8	<2130
1,2-Dichloroethane	ND	ND	ND	<1.3	<1.2	<1.2	<1450
1,2-Dichloropropane	ND	ND	ND	<1.4	<1.4	<1.4	<1670
1,3,5-Trimethylbenzene	ND	ND	ND	<3.8	<3.7	**5.0**	<4440
1,3-Butadiene	ND	ND	ND	<0.69	<0.67	<0.67	<798
1,3-Dichlorobenzene	ND	ND	ND	<1.8	<1.8	**6.0**	<2130
1,4-Dichlorobenzene	ND	ND	ND	<1.8	<1.8	**8.6**	<2130
2-Butanone (MEK)	ND	ND	ND	**12.2**	<0.89	**15.8**	<1060
2-Hexanone	ND	ND	ND	<1.3	<1.2	<1.2	<1470
2-Propanol	NA	NA	NA	**4.9**	<3.7	<3.7	<4440
4-Ethyltoluene	ND	ND	ND	<3.8	<3.7	**6.0**	<4440
4-Methyl-2-pentanone (MIBK)	ND	ND	ND	<1.3	<1.2	<1.2	<1470
Acetone	**76,800**	**126**	**116**	**37,000**	**501**	**7,510**	<852
Benzene	ND	**16.2**	ND	**1.1**	**1.5**	**2.3**	<1150
Bromodichloromethane	ND	ND	ND	<2.2	<2.1	<2.1	<2480
Bromoform	ND	ND	ND	<3.2	<3.1	<3.1	<3730
Bromomethane	ND	ND	ND	<1.2	<1.2	<1.2	<1400
Carbon disulfide	ND	ND	ND	<0.97	<0.93	**5.9**	<1120
Carbon tetrachloride	ND	ND	ND	<2.0	<1.9	<1.9	<2310
Chlorobenzene	ND	ND	ND	<1.4	<1.4	<1.4	<1670
Chloroethane	ND	ND	ND	<0.83	<0.80	<0.80	<958
Chloroform	ND	ND	ND	**25.8**	<1.5	**21.5**	<1760
Chloromethane	ND	ND	ND	<0.65	<0.62	<0.62	<745
cis-1,2-Dichloroethene	ND	**47.2**	**118**	**257**	**21.5**	**2,620**	**36,300**
cis-1,3-Dichloropropene	ND	ND	ND	<1.4	<1.4	<1.4	<1630
Cyclohexane	ND	**766**	ND	<1.0	<1.0	**3.5**	<1210
Dibromochloromethane	ND	ND	ND	<2.6	<2.5	<2.5	<3020
Dichlorodifluoromethane	ND	ND	ND	<1.5	**2.8**	<1.5	**2,230**
Dichlorotetrafluoroethane	ND	ND	ND	<2.2	<2.1	<2.1	**3,400**
Ethanol	NA	NA	NA	**8.9**	**8.4**	**5.7**	<3370
Ethyl acetate	ND	ND	ND	<1.1	<1.1	<1.1	<1300
Ethylbenzene	ND	ND	ND	**7.9**	<1.3	<1.3	<1560
Hexachloro-1,3-butadiene	ND	ND	ND	<3.4	<3.3	<3.3	<3900
m&p-Xylene	ND	ND	ND	**25.0**	**2.6**	**14.2**	<3120
Methylene Chloride	ND	**270**	ND	<1.1	**276**	<1.1	<1260
Methyl-tert-butyl ether	ND	ND	ND	<1.1	<1.1	<1.1	<1300
Naphthalene	NA	NA	NA	**5.6**	<4.0	**4.2**	**10,100**
n-Heptane	ND	ND	ND	<1.3	<1.2	**2.6**	<1470
n-Hexane	ND	ND	ND	**2.1**	**35.4**	**3.4**	<1280
o-Xylene	ND	ND	ND	**7.5**	<1.3	**4.8**	<1560
Propylene	ND	ND	ND	<0.54	<0.52	<0.52	<621
Styrene	ND	ND	ND	<1.3	<1.3	<1.3	<1540
Tetrachloroethene	**8,550,000**	**6,790**	**381,000**	**571,000**	**396,000**	**3,630,000**	**11,600,000**
Tetrahydrofuran	**56,400**	ND	**145**	**36.2**	<0.89	**31.1**	<1060
Toluene	ND	**9.58**	ND	**17.6**	**10.3**	**14.4**	<1370
trans-1,2-Dichloroethene	ND	ND	ND	<1.2	<1.2	**4.2**	<1440
trans-1,3-Dichloropropene	ND	ND	ND	<1.4	<1.4	<1.4	<1630
Trichloroethene	ND	**21.3**	ND	**153**	**13.6**	**1,640**	**17,400**
Trichlorofluoromethane	ND	ND	ND	<1.7	**1.7**	**2.2**	<1950
Vinyl acetate	ND	ND	ND	**7.4**	<1.1	**8.7**	<1260
Vinyl chloride	ND	ND	ND	<0.80	<0.77	<0.77	<923
Total VOCs	**11,403,200**	**12,510**	**453,479**	**608,840**	**494,779**	**3,795,077**	**14,603,780**

Notes:
Bold: parameter detected above the reporting limit.
NA: Not Analyzed.

TABLE 4

RASS EMISSIONS RATES SUMMARY
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Date	DPE Wells Operating	Parameter	Concentration (ug/m^3)	Emissions Rates				
				DPE (ug per sec)	AS (ug per sec)	Site Specific (ug per sec)	SER for Chronic Risk (ug per sec)	SER for Acute Risk (ug per sec)
9/4/2009	DPE-1	Tetrachloroethylene	3,630,000	61,710	70	**61,780**	16,300	5,980,000
10/15/2009	DPE-1	Tetrachloroethylene	396,000	5,940	6	5,946	16,300	5,980,000
10/16/2009	All Wells	Tetrachloroethylene	571,000	8,565	6	8,571	16,300	5,980,000
11/17/2009	All Wells	Tetrachloroethylene	381,000	4,953	0.5	4,953	16,300	5,980,000
12/17/2009	All Wells	Tetrachloroethylene	6,790	197	0.5	197	16,300	5,980,000
1/14/2010	All Wells	Tetrachloroethylene	8,550,000	393,300	4	**393,304**	16,300	5,980,000

Notes:
SERs: MPCA Screening Emissions Rates
61,780 Emissions rate is above MPCA SER

Table 5

Mass Removal from Groundwater Treatment System
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Monitoring Period								Total VOCs					
Start Date[1]	End Date	Days per Period	Hours per Period	Flow Meter Reading (gallons)	Gallons Treated During Period	Average Flow Rate (gpm)	Average Flow Rate (liter/sec)	Influent Conc. (ug/L)	Effluent Conc. (ug/L)	% Reduction	Mass Removed per Period (lbs)	Cumulative Mass Removed (lbs)	Addition to Emission Rate (lbs/day)
4/9/2009[2]	4/9/2009	0	2	119	51	0.4	0.027	176,343	NA	NA	NA	NA	NA
6/4/2009	6/4/2009[3]	0	2	192	73	0.6	0.038	4,630	8,991	-94	NA	NA	NA
6/4/2009	7/9/2009	11	264	16,115	15,923	1.0	0.063	1,547	479	69	0.14	0.14	0.01
7/9/2009	9/4/2009	57	1368	38,299	22,184	0.3	0.017	191	20	90	0.03	0.17	0.001
9/4/2009	10/15/2009	41	984	62,643	24,344	0.4	0.026	238	0	100	0.05	0.22	0.001
10/15/2009	11/16/2009	32	768	73,800	11,157	0.2	0.015	31	0	100	0.00	0.22	0.000
11/16/2009	12/17/2009[4]	31	744	89,800	16,000	0.4	0.023	24	12	50	0.00	0.23	0.000
12/17/2009	1/14/2010	28	672	106,024	16,224	0.4	0.025	309	32	90	0.04	0.26	0.001

Notes:

1. The initial reading of the transfer pump totalizer was 68 gallons.
2. Initial sampling event to determine if groundwater treatment was necessary.
3. Increase in total VOCs was from PVC glue and cement that was used during the construction of the DPE system and air stripper.
4. Based on the PCE concentrations in the AS-Influent and AS-Effluent samples, it appears as if the samples were mislabeled or mixed up at the lab. Therefore, the influent and effluent total VOC data in this table has been changed to show the highest total VOC concentration data as the influent data and the lowest total VOC concentration as the effluent data.

TABLE 6

GROUNDWATER DISCHARGE ANALYTICAL RESULTS
(micrograms per liter)
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Sample ID	AS-Influent	AS-Effluent	AS-Influent	AS-IN Vial 2	AS-Effluent	AS-INFLUENT	AS-EFFLUENT	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent	AS-INFLUENT	AS-EFFLUENT	AS INFLUENT	AS EFFLUENT[2]	DPE Discharge[1]
Collected Date	01/14/2010 09:30	01/14/2010 09:40	12/17/2009 10:00	12/17/2009 10:00	12/17/2009 10:01	11/16/2009 10:10	11/16/2009 10:20	10/15/2009 14:50	10/15/2009 14:50	9/4/2009 10:55	9/4/2009 10:55	7/9/2009 12:20	7/9/2009 12:25	06/04/2009 17:00	06/04/2009 17:25	04/09/2009 16:35
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	**29.4**
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,1,2-Trichloroethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
1,1,2-Trichlorotrifluoroethane	**1.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.4**	<1.0	**1.2**	<1.0	**10.4**	<1.0	**53.7**	<1.0	**7860**
1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,1-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,1-Dichloropropene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,2,4-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	**26.0**
1,2-Dibromo-3-chloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
1,2-Dibromoethane (EDB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,2-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	**7.1**
1,3-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,3-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,4-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	**7.8**
2,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
2-Butanone (MEK)	**7.0**	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	**5.4**	<4.0	**13.5**	**19.8**	<20.0	**82.1**	<200	**1670**	**392**
2-Chloroethylvinyl ether	<25.0	<25.0	<25.0	<25.0	<25.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<50.0	<10.0	<1250	<25.0	<50.0
2-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	**51.0**
2-Hexanone	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
2-Methylnaphthalene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<25.0	<5.0	<250	<5.0	<25.0
4-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
4-Methyl-2-pentanone (MIBK)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<25.0	<5.0	<250	<5.0	<25.0
Acetone	**14.6**	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<50.0	**68.7**	<500	**987**	<50.0
Acrolein	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<200	<40.0	<2000	<40.0	<200
Acrylonitrile	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<50.0	<10.0	<500	<10.0	<50.0
Allyl chloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Bromobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Bromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Bromodichloromethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Bromoform	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<40.0	<8.0	<400	<8.0	<40.0
Bromomethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Carbon disulfide	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Chlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Chloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Chloroform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Chloromethane	**98.5**	**31.9**	<1.0	<1.0	**1.3**	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	**63.3**	**76.4**	<50.0	<1.0	<5.0
Chloroprene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
cis-1,2-Dichloroethene	**1.0**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.5**	<1.0	**1.5**	<1.0	**13.0**	<1.0	**62.9**	<1.0	**206**
cis-1,3-Dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Dibromomethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Dichlorodifluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Dichlorofluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Diethyl ether (Ethyl ether)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Hexachloro-1,3-butadiene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Iodomethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Isopropylbenzene (Cumene)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
m&p-Xylene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10.0	<2.0	<100	<2.0	<10.0
Methylene Chloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Methyl-tert-butyl ether	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Naphthalene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
n-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	5.0

TABLE 6

GROUNDWATER DISCHARGE ANALYTICAL RESULTS
(micrograms per liter)
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Sample ID	AS-Influent	AS-Effluent	AS-Influent	AS-IN Vial 2	AS-Effluent	AS-INFLUENT	AS-EFFLUENT	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent	AS-INFLUENT	AS-EFFLUENT	AS INFLUENT	AS EFFLUENT[2]	DPE Discharge[1]
Collected Date	01/14/2010 09:30	01/14/2010 09:40	12/17/2009 10:00	12/17/2009 10:00	12/17/2009 10:01	11/16/2009 10:10	11/16/2009 10:20	10/15/2009 14:50	10/15/2009 14:50	9/4/2009 10:55	9/4/2009 10:55	7/9/2009 12:20	7/9/2009 12:25	06/04/2009 17:00	06/04/2009 17:25	04/09/2009 16:35
n-Propylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
o-Xylene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
p-Isopropyltoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
sec-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
tert-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Tetrachloroethene	**157**	<1.0	<1.0	<1.0	**22.7**	**30.7**	<1.0	**214**	<1.0	**175**	<1.0	**1460**	<1.0	**3970**	**33.8**	**167000**
Tetrahydrofuran	**29.4**	<10.0	**11.7**	**11.5**	<10.0	<10.0	<10.0	**15.7**	<10.0	<10.0	<10.0	<50.0	**252**	**543**	**6300**	**600**
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
trans-1,3-Dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	**159**
Trichlorofluoromethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Vinyl acetate	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<100	<20.0	<1000	<20.0	<100
Vinyl chloride	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<2.0	<0.40	<20.0	<0.40	<2.0
Xylene (Total)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<15.0	<3.0	<150	<3.0	<15.0
Total VOC Concentration	**308.8**	**31.9**	**11.7**	**11.5**	**24**	**30.7**	**0**	**238**	**0**	**191.2**	**19.8**	**1,546.7**	**479.2**	**4,566.7**	**8,990.8**	**176,338.3**

Notes:
Bold: parameter detected above the reporting limit.
Bold: Parameter detected above discharge limit of 2,140 ug/L.
[1]: Initial sampling event to determine if groundwater treatment was necessary.
[2]: Increase in VOCs was from PVC glue and cement that was used during the construction of the DPE system and air stripper.

TABLE 7

GROUNDWATER ELEVATIONS
MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Well ID	Date Measured	Top of Casing Elevation[1,2]	Depth to Groundwater (feet)	Groundwater Elevation[3]	System Status
MW-14	12/3/2008	989.50	10.82	978.68	pre-system installation
MW-14	6/8/2009	989.50	12.40	977.10	pre-system startup
MW-14	7/9/2009	989.50	12.90	976.60	DPE system on DPE-1
MW-14	7/9/2009	989.50	12.51	976.99	DPE system temporarily off
MW-14	9/4/2009	989.50	12.63	976.87	DPE system on
MW-14	9/4/2009	989.50	12.57	976.93	DPE system on after replacing inlet screen
MW-14	9/4/2009	989.50	12.65	976.85	DPE system on after replacing inlet filter
MW-14	10/15/2009	989.50	12.47	977.03	DPE system on DPE-1
MW-14	10/23/2009	989.50	11.33	978.17	DPE system off
MW-14	11/16/2009	989.50	11.87	977.63	DPE System on all wells
MW-14	12/17/2009	989.50	11.66	977.84	DPE System on all wells
MW-14	1/14/2010	989.50	12.14	977.36	DPE System on all wells
MW-15	12/3/2008	991.50	13.11	978.39	pre-system installation
MW-15	6/8/2009	991.50	15.58	975.92	pre-system startup
MW-15	7/9/2009	991.50	15.94	975.56	DPE system on DPE-1
MW-15	7/9/2009	991.50	16.51	974.99	DPE system temporarily off
MW-15	9/4/2009	991.50	15.73	975.77	DPE system on
MW-15	9/4/2009	991.50	15.90	975.60	DPE system on after replacing inlet screen
MW-15	9/4/2009	991.50	16.01	975.49	DPE system on after replacing inlet filter
MW-15	10/15/2009	991.50	15.38	976.12	DPE system on DPE-1
MW-15	10/23/2009	991.50	14.14	977.36	DPE system off
MW-15	11/16/2009	991.50	13.78	977.72	DPE System on all wells
MW-15	12/17/2009	991.50	14.25	977.25	DPE System on all wells
MW-15	1/14/2010	991.50	14.33	977.17	DPE System on all wells
MW-16	12/3/2008	989.44	12.32	977.12	pre-system installation
MW-16	6/8/2009	989.44	14.82	974.62	pre-system startup
MW-16	7/9/2009	989.44	14.23	975.21	DPE system on DPE-1
MW-16	7/9/2009	989.44	13.19	976.25	DPE system temporarily off
MW-16	9/4/2009	989.44	13.70	975.74	DPE system on
MW-16	9/4/2009	989.44	14.25	975.19	DPE system on after replacing inlet screen
MW-16	9/4/2009	989.44	14.58	974.86	DPE system on after replacing inlet filter
MW-16	10/15/2009	989.44	13.61	975.83	DPE system on DPE-1
MW-16	10/23/2009	989.44	11.89	977.55	DPE system off
MW-16	11/16/2009	989.44	11.44	978.00	DPE System on all wells
MW-16	12/17/2009	989.44	14.17	975.27	DPE System on all wells
MW-16	1/14/2010	989.44	12.57	976.87	DPE System on all wells
MW-17	12/3/2008	989.53	12.81	976.72	pre-system installation
MW-17	6/8/2009	989.53	13.69	975.84	pre-system startup
MW-17	7/9/2009	989.53	14.44	975.09	DPE system on DPE-1
MW-17	7/9/2009	989.53	14.35	975.18	DPE system temporarily off
MW-17	9/4/2009	989.53	14.31	975.22	DPE system on
MW-17	9/4/2009	989.53	14.33	975.20	DPE system on after replacing inlet screen
MW-17	9/4/2009	989.53	14.39	975.14	DPE system on after replacing inlet filter

TABLE 7

GROUNDWATER ELEVATIONS
MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Well ID	Date Measured	Top of Casing Elevation[1,2]	Depth to Groundwater (feet)	Groundwater Elevation[3]	System Status
MW-17	10/15/2009	989.53	14.00	975.53	DPE system on DPE-1
MW-17	10/23/2009	989.53	13.13	976.40	DPE system off
MW-17	11/16/2009	989.53	12.76	976.77	DPE System on all wells
MW-17	12/17/2009	989.53	13.04	976.49	DPE System on all wells
MW-17	1/14/2010	989.53	13.22	976.31	DPE System on all wells
MW-18	12/3/2008	989.50	13.82	975.68	pre-system installation
MW-18	6/8/2009	989.50	14.22	975.28	pre-system startup
MW-18	7/9/2009	989.50	16.61	972.89	DPE system on DPE-1
MW-18	7/9/2009	989.50	15.61	973.89	DPE system temporarily off
MW-18	9/4/2009	989.50	15.37	974.13	DPE system on
MW-18	9/4/2009	989.50	15.38	974.12	DPE system on after replacing inlet screen
MW-18	9/4/2009	989.50	15.40	974.10	DPE system on after replacing inlet filter
MW-18	10/15/2009	989.50	15.18	974.32	DPE system on DPE-1
MW-18	10/23/2009	989.50	14.28	975.22	DPE system off
MW-18	11/16/2009	989.50	13.83	975.67	DPE System on all wells
MW-18	12/17/2009	989.50	13.85	975.65	DPE System on all wells
MW-18	1/14/2010	989.50	13.96	975.54	DPE System on all wells
MW-19	12/3/2008	991.13	12.45	978.68	pre-system installation
MW-19	6/8/2009	991.13	13.40	977.73	pre-system startup
MW-19	7/9/2009	991.13	14.75	976.38	DPE system on DPE-1
MW-19	7/9/2009	991.13	14.58	976.55	DPE system temporarily off
MW-19	9/4/2009	991.13	14.68	976.45	DPE system on
MW-19	9/4/2009	991.13	14.61	976.52	DPE system on after replacing inlet screen
MW-19	9/4/2009	991.13	14.66	976.47	DPE system on after replacing inlet filter
MW-19	10/15/2009	991.13	14.47	976.66	DPE system on DPE-1
MW-19	10/23/2009	991.13	13.28	977.85	DPE system off
MW-19	11/16/2009	991.13	12.85	978.28	DPE System on all wells
MW-19	12/17/2009	991.13	13.69	977.44	DPE System on all wells
MW-19	1/14/2010	991.13	13.78	977.35	DPE System on all wells
MW-20	12/3/2008	991.50	12.40	979.10	pre-system installation
MW-20	6/8/2009	991.50	11.93	979.57	pre-system startup
MW-20	7/9/2009	991.50	12.19	979.31	DPE system on DPE-1
MW-20	7/9/2009	991.50	12.24	979.26	DPE system temporarily off
MW-20	9/4/2009	991.50	12.53	978.97	DPE system on
MW-20	9/4/2009	991.50	12.47	979.03	DPE system on after replacing inlet screen
MW-20	9/4/2009	991.50	12.49	979.01	DPE system on after replacing inlet filter
MW-20	10/15/2009	991.50	12.16	979.34	DPE system on DPE-1
MW-20	10/23/2009	991.50	11.33	980.17	DPE system off
MW-20	11/16/2009	991.50	11.02	980.48	DPE System on all wells
MW-20	12/17/2009	991.50	12.31	979.19	DPE System on all wells
MW-20	1/14/2010	991.50	12.34	979.16	DPE System on all wells

TABLE 7

GROUNDWATER ELEVATIONS
MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Well ID	Date Measured	Top of Casing Elevation[1,2]	Depth to Groundwater (feet)	Groundwater Elevation[3]	System Status
DPE-1	12/3/2008	991.46	13.66	977.80	pre-system installation
DPE-1	6/8/2009	992.40	18.78	973.62	pre-system startup
DPE-1	7/9/2009	992.40	20.51	971.89	DPE system on DPE-1
DPE-1	7/9/2009	992.40	16.38	976.02	DPE system temporarily off
DPE-1	9/4/2009	992.40	na		DPE system on DPE-1
DPE-1	9/4/2009	992.40	na		DPE-1 on after replacing inlet screen
DPE-1	9/4/2009	992.40	17.86	974.54	DPE-1 on after replacing inlet filter
DPE-1	10/15/2009	992.40	na		DPE system on DPE-1
DPE-1	10/23/2009	992.40	14.88	977.52	DPE system off
DPE-1	11/16/2009	992.40	14.45	977.95	DPE System on all wells
DPE-1	12/17/2009	992.40	15.13	977.27	DPE System on all wells
DPE-1	1/14/2010	992.40	15.53	976.87	DPE System on all wells
DPE-2	12/3/2008	991.46	13.60	977.86	pre-system installation
DPE-2	6/8/2009	992.80	17.45	975.35	pre-system startup
DPE-2	7/9/2009	992.80	17.61	975.19	DPE system on DPE-1
DPE-2	7/9/2009	992.80	16.83	975.97	DPE system temporarily off
DPE-2	9/4/2009	992.80	17.18	975.62	DPE system on DPE-1
DPE-2	9/4/2009	992.80	17.26	975.54	DPE-1 on after replacing inlet screen
DPE-2	9/4/2009	992.80	17.54	975.26	DPE-1 on after replacing inlet filter
DPE-2	10/15/2009	992.80	16.96	975.84	DPE system on DPE-1
DPE-2	10/23/2009	992.80	15.53	977.27	DPE system off
DPE-2	11/16/2009	992.80	15.19	977.61	DPE System on all wells
DPE-2	12/17/2009	992.80	15.69	977.11	DPE System on all wells
DPE-2	1/14/2010	992.80	16.04	976.76	DPE System on all wells
DPE-3	12/3/2008	991.50	10.30	981.20	pre-system installation
DPE-3	6/8/2009	992.48	13.64	978.84	pre-system startup
DPE-3	7/9/2009	992.48	13.98	978.50	DPE system on DPE-1
DPE-3	7/9/2009	992.48	14.06	978.42	DPE system temporarily off
DPE-3	9/4/2009	992.48	14.48	978.00	DPE system on DPE-1
DPE-3	9/4/2009	992.48	14.49	977.99	DPE-1 on after replacing inlet screen
DPE-3	9/4/2009	992.48	14.50	977.98	DPE-1 on after replacing inlet filter
DPE-3	10/15/2009	992.48	14.87	977.61	DPE system on DPE-1
DPE-3	10/23/2009	992.48	14.76	977.72	DPE system off
DPE-3	11/16/2009	992.48	14.59	977.89	DPE System on all wells
DPE-3	12/17/2009	992.48	15.28	977.20	DPE System on all wells
DPE-3	1/14/2010	992.48	16.52	975.96	DPE System on all wells
DPE-4	12/3/2008	991.39	14.20	977.19	pre-system installation
DPE-4	6/8/2009	992.40	15.30	977.10	pre-system startup
DPE-4	7/9/2009	992.40	16.95	975.45	DPE system on DPE-1
DPE-4	7/9/2009	992.40	16.08	976.32	DPE system temporarily off
DPE-4	9/4/2009	992.40	15.94	976.46	DPE system on DPE-1
DPE-4	9/4/2009	992.40	15.91	976.49	DPE-1 on after replacing inlet screen
DPE-4	9/4/2009	992.40	15.99	976.41	DPE-1 on after replacing inlet filter

TABLE 7

GROUNDWATER ELEVATIONS
MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Well ID	Date Measured	Top of Casing Elevation[1,2]	Depth to Groundwater (feet)	Groundwater Elevation[3]	System Status
DPE-4	10/15/2009	992.40	15.83	976.57	DPE system on DPE-1
DPE-4	10/23/2009	992.40	14.81	977.59	DPE system off
DPE-4	11/16/2009	992.40	14.48	977.92	DPE System on all wells
DPE-4	12/17/2009	992.40	15.44	976.96	DPE System on all wells
DPE-4	1/14/2010	992.40	16.08	976.32	DPE System on all wells
DPE-5	12/3/2008	991.47	12.44	979.03	pre-system installation
DPE-5	6/8/2009	992.46	14.48	977.98	pre-system startup
DPE-5	7/9/2009	992.46	16.28	976.18	DPE system on DPE-1
DPE-5	7/9/2009	992.46	15.31	977.15	DPE system temporarily off
DPE-5	9/4/2009	992.46	15.08	977.38	DPE system on DPE-1
DPE-5	9/4/2009	992.46	15.04	977.42	DPE-1 on after replacing inlet screen
DPE-5	9/4/2009	992.46	15.03	977.43	DPE-1 on after replacing inlet filter
DPE-5	10/15/2009	992.46	14.99	977.47	DPE system on DPE-1
DPE-5	10/23/2009	992.46	13.78	978.68	DPE system off
DPE-5	11/16/2009	992.46	13.43	979.03	DPE System on all wells
DPE-5	12/17/2009	992.46			DPE System on all wells
DPE-5	1/14/2010	992.46	15.00	977.46	DPE System on all wells
DPE-6	12/3/2008	991.44	12.93	978.51	pre-system installation
DPE-6	6/8/2009	992.40	16.19	976.21	pre-system startup
DPE-6	7/9/2009	992.40	16.54	975.86	DPE system on DPE-1
DPE-6	7/9/2009	992.40	15.92	976.48	DPE system temporarily off
DPE-6	9/4/2009	992.40	15.68	976.72	DPE system on DPE-1
DPE-6	9/4/2009	992.40	15.65	976.75	DPE-1 on after replacing inlet screen
DPE-6	9/4/2009	992.40	15.81	976.59	DPE-1 on after replacing inlet filter
DPE-6	10/15/2009	992.40	15.94	976.46	DPE system on DPE-1
DPE-6	10/23/2009	992.40	14.56	977.84	DPE system off
DPE-6	11/16/2009	992.40	14.24	978.16	DPE System on all wells
DPE-6	12/17/2009	992.40	14.89	977.51	DPE System on all wells
DPE-6	1/14/2010	992.40	15.14	977.26	DPE System on all wells
DPE-7	12/3/2008	991.47	12.96	978.51	pre-system installation
DPE-7	6/8/2009	993.48	16.78	976.70	pre-system startup
DPE-7	7/9/2009	993.48	17.76	975.72	DPE system on DPE-1
DPE-7	7/9/2009	993.48	17.16	976.32	DPE system temporarily off
DPE-7	9/4/2009	993.48	17.03	976.45	DPE system on DPE-1
DPE-7	9/4/2009	993.48	17.00	976.48	DPE-1 on after replacing inlet screen
DPE-7	9/4/2009	993.48	17.18	976.30	DPE-1 on after replacing inlet filter
DPE-7	10/15/2009	993.48	16.80	976.68	DPE system on DPE-1
DPE-7	10/23/2009	993.48	15.68	977.80	DPE system off
DPE-7	11/16/2009	993.48	15.44	978.04	DPE System on all wells
DPE-7	12/17/2009	993.48	16.03	977.45	DPE System on all wells
DPE-7	1/14/2010	993.48	16.26	977.22	DPE System on all wells

TABLE 7

GROUNDWATER ELEVATIONS
MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Well ID	Date Measured	Top of Casing Elevation[1,2]	Depth to Groundwater (feet)	Groundwater Elevation[3]	System Status
DPE-8	12/3/2008	991.48	12.56	978.92	pre-system installation
DPE-8	6/8/2009	992.84	14.50	978.34	pre-system startup
DPE-8	7/9/2009	992.84	14.57	978.27	DPE system on DPE-1
DPE-8	7/9/2009	992.84	14.49	978.35	DPE system temporarily off
DPE-8	9/4/2009	992.84	14.29	978.55	DPE system on DPE-1
DPE-8	9/4/2009	992.84	14.31	978.53	DPE-1 on after replacing inlet screen
DPE-8	9/4/2009	992.84	14.28	978.56	DPE-1 on after replacing inlet filter
DPE-8	10/15/2009	992.84	14.01	978.83	DPE system on DPE-1
DPE-8	10/23/2009	992.84	13.18	979.66	DPE system off
DPE-8	11/16/2009	992.84	13.30	979.54	DPE System on all wells
DPE-8	12/17/2009	992.84	15.31	977.53	DPE System on all wells
DPE-8	1/14/2010	992.84	16.58	976.26	DPE System on all wells
Elevator Draintile Sump	6/8/2009	989.58	7.00	982.58	pre-system startup
Elevator Draintile Sump	6/25/2009	990.20	6.34	983.86	pre-system startup
Elevator Draintile Sump	7/9/2009	990.20	6.38	983.82	DPE system on DPE-1
Elevator Draintile Sump	9/4/2009	990.20	6.29	983.91	DPE system on DPE-1
Elevator Draintile Sump	10/15/2009	990.20	6.18	984.02	DPE system on DPE-1
Elevator Draintile Sump	10/23/2009	990.20	6.08	984.12	DPE system off
Elevator Draintile Sump	11/16/2009	990.20	5.72	984.48	DPE System on all wells
Elevator Draintile Sump	12/17/2009	990.20	6.48	983.72	DPE System on all wells
Elevator Draintile Sump	1/14/2010	990.20	6.46	983.74	DPE System on all wells

Notes:

1. Monitoring well top of casing elevations were surveyed by Adolfson and Peterson on 4/22/08.
2. DPE well top of casing elevations changed during DPE well head installation and were estimated from a basement floor elevation of 989.5 ft and include the distance from the floor to the top of the well seal cover and the distance from the well seal cover to the top of the PVC stickup for collecting water level readings.
3. Elevations are in feet above mean sea level.

TABLE 8

WELL CONSTRUCTION SUMMARY
(elevations are in feet above mean sea level)

MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Monitoring Well	Top of Casing Elevation[1,2]	Basement Floor Elevation	Top of Seal Elevation	Top of Filter Pack Elevation	Top of Well Screen Elevation	Bottom of Well Screen Elevation	Screen Interval (feet)	Depth to Bottom of Well (feet)	Bottom of Well Elevation	Well Completion
MW-14	989.50	989.50	989.50	986.00	984.00	974.00	10	17.5	972.00	flush-mounted
MW-15	991.50	989.50	990.50	987.50	985.50	975.50	10	18.0	973.50	stickup
MW-16	989.44	989.50	989.94	985.44	983.44	973.44	10	18.0	971.44	flush-mounted
MW-17	989.53	989.50	989.03	973.53	971.53	966.53	5	25.0	964.53	flush-mounted
MW-18	989.50	989.50	989.25	938.50	936.50	931.50	5	60.0	929.50	flush-mounted
MW-19	991.13	989.50	990.63	984.13	983.13	973.13	10	20.0	971.13	stickup
MW-20	991.50	989.50	992.80	988.80	986.80	976.80	10	16.7	974.80	stickup
DPE-1	992.40	989.50	989.53	984.53	982.53	970.53	12	21.9	970.53	stickup
DPE-2	992.80	989.50	990.28	986.28	984.28	972.28	12	20.5	972.28	stickup
DPE-3	992.48	989.50	990.42	989.42	987.42	975.42	12	17.1	975.42	stickup
DPE-4	992.40	989.50	990.07	987.07	985.07	973.07	12	19.3	973.07	stickup
DPE-5	992.46	989.50	990.32	987.32	986.32	974.32	12	18.1	974.32	stickup
DPE-6	992.40	989.50	989.87	986.87	984.87	972.87	12	19.5	972.87	stickup
DPE-7	993.48	989.50	990.32	984.32	983.32	971.32	12	22.2	971.32	stickup
DPE-8	992.84	989.50	990.84	989.34	987.34	975.34	12	17.5	975.34	stickup

Notes:

1. Monitoring well top of casing elevations were surveyed by Adolfson and Peterson on 4/22/08.
2. DPE well top of casing elevations changed during DPE well head installation and were estimated from a basement floor elevation of 989.5 ft and include the distance from the floor to the top of the well seal cover and the distance from the well seal cover to the top of the PVC stickup for collecting water level readings.

TABLE 9

PCE CONCENTRATION DATA
MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Sample ID	Date	PCE Conc. (ug/L)	% Change
DPE-3	12/10/2008	152,000	
	9/28/2009	20,300	-87
	11/17/2009 10:15	34,600	-77
DPE-4	12/10/2008	35,600	
	9/28/2009	7,340	-79
	11/17/2009 10:50	5,040	-86
DPE-5	12/10/2008	1,340	
	9/24/2009	875	-35
	11/17/2009 11:00	1,450	8
DPE-6	12/10/2008	188	
	9/24/2009	79.3	-58
	11/17/2009 11:30	104	-45
DPE-7	12/10/2008	22.3	
	9/24/2009	5.2	-77
	11/17/2009 11:50	55.2	148
DPE-8	12/10/2008	14,200	
	9/24/2009	1,850	-87
	11/17/2009 12:30	1,480	-90

TABLE 9

PCE CONCENTRATION DATA
MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Sample ID	Date	PCE Conc. (ug/L)	% Change
MW-14	12/3/2008	30.6	
	10/1/2009	4.2	-86
	11/16/2009 15:40	7.1	-77
MW-15	12/10/2008	104	
	10/1/2009	15.7	-85
	11/16/2009 17:00	9.5	-91
MW-16	12/3/2008	14,100	
	10/1/2009	6,890	-51
	11/16/2009 19:20	21,000	49
MW-17	12/3/2008	363	
	10/1/2009	803	121
	11/16/2009 18:10	1,100	203
MW-18	12/3/2008	257	
	10/1/2009	250	-3
	11/16/2009 15:45	130	-49
MW-19	12/3/2008	2.4	
	9/24/2009	17.4	625
	11/16/2009 16:30	13.6	467
MW-20	12/10/2008	599	
	10/1/2009	713	19
	11/16/2009 18:50	307	-49
DPE-1	8/7/2008	157,000	
	12/10/2008	161,000	
	9/28/2009	6,820	-96
	11/16/2009 19:50	3,330	-98
DPE-2	12/10/2008	38,200	
	9/28/2009	32,000	-16
	11/17/2009 09:40	10,600	-72

TABLE 10

GROUNDWATER ANALYTICAL RESULTS (ug/L)
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Sample ID	MDH Health Risk Limits	DPE-1	DPE-1	DPE-1	DPE-1	DPE-2	DPE-2	DPE-2	DPE-3	DPE-3	DPE-3
Collected Date and Time		11/16/2009 19:50	09/28/2009 12:52	12/10/2008 13:50	8/7/2008 17:00	11/17/2009 09:40	09/28/2009 14:22	12/10/2008 11:45	11/17/2009 10:15	09/28/2009 15:25	12/10/2008 10:57
	5/09										
1,1,1,2-Tetrachloroethane	70	<25.0	<50.0	NA*	<250	<100	<250	NA*	<200	<200	NA*
1,1,1-Trichloroethane	9000	<25.0	<50.0	NA*	<250	<100	<250	NA*	<200	<200	NA*
1,1,2,2-Tetrachloroethane	2	<25.0	<50.0	NA*	<250	<100	<250	NA*	<200	<200	NA*
1,1,2-Trichloroethane	3	<25.0	<50.0	NA*	<250	<100	<250	NA*	<200	<200	NA*
1,1,2-Trichlorotrifluoroethane	200000	215	912	NA*	11,300	1,270	1,620	NA*	1,920	843	NA*
1,1-Dichloroethane	70	<25.0	<50.0	NA*	<250	<100	<250	NA*	<200	<200	NA*
1,1-Dichloroethene	6	<25.0	<50.0	<2000	<250	<100	<250	<500	<200	<200	<500
1,1-Dichloropropene	NL	<25.0	<50.0	NA*	<250	<100	<250	NA*	<200	<200	NA*
1,2,3-Trichlorobenzene	NL	<25.0	<50.0	NA*	<250	<100	<250	NA*	<200	<200	NA*
1,2,3-Trichloropropane	40	<25.0	<50.0	NA*	<250	<100	<250	NA*	<200	<200	NA*
1,2,4-Trichlorobenzene	NL	<25.0	<50.0	NA*	<250	<100	<250	NA*	<200	<200	NA*
1,2,4-Trimethylbenzene	NL	<25.0	<50.0	NA*	<250	<100	<250	NA*	<200	<200	NA*
1,2-Dibromo-3-chloropropane	NL	<100	<200	NA*	<1000	<400	<1000	NA*	<800	<800	NA*
1,2-Dibromoethane (EDB)	.004	<25.0	<50.0	NA*	<250	<100	<250	NA*	<200	<200	NA*
1,2-Dichlorobenzene	600	<25.0	<50.0	NA*	<250	<100	<250	NA*	<200	<200	NA*
1,2-Dichloroethane	4	<25.0	<50.0	NA*	<250	<100	<250	NA*	<200	<200	NA*
1,2-Dichloropropane	5	<25.0	<50.0	NA*	<250	<100	<250	NA*	<200	<200	NA*
1,3,5-Trimethylbenzene	100	<25.0	<50.0	NA*	<250	<100	<250	NA*	<200	<200	NA*
1,3-Dichlorobenzene	NL	<25.0	<50.0	NA*	<250	<100	<250	NA*	<200	<200	NA*
1,3-Dichloropropane	NL	<25.0	<50.0	NA*	<250	<100	<250	NA*	<200	<200	NA*
1,4-Dichlorobenzene	10	<25.0	<50.0	NA*	<250	<100	<250	NA*	<200	<200	NA*
2,2-Dichloropropane	NL	<100	<50.0	NA*	<250	<400	<250	NA*	<800	<200	NA*
2-Butanone (MEK)	4000	<100	<200	NA*	<1000	<400	<1000	NA*	<800	<800	NA*
2-Chlorotoluene	NL	<25.0	<50.0	NA*	<250	<100	<250	NA*	<200	<200	NA*
4-Chlorotoluene	NL	<25.0	<50.0	NA*	<250	<100	<250	NA*	<200	<200	NA*
4-Methyl-2-pentanone (MIBK)	300	<100	<200	NA*	<1000	<400	<1000	NA*	<800	<800	NA*
Acetone	700	<250	<500	NA*	<2500	<1000	<2500	NA*	<2000	<2000	NA*
Allyl chloride	30	<100	<200	NA*	<1000	<400	<1000	NA*	<800	<800	NA*
Benzene	2	<25.0	<50.0	NA*	<250	<100	<250	NA*	<200	<200	NA*
Bromobenzene	NL	<25.0	<50.0	NA*	<250	<100	<250	NA*	<200	<200	NA*
Bromochloromethane	NL	<25.0	<50.0	NA*	<250	<100	<250	NA*	<200	<200	NA*
Bromodichloromethane	6	<25.0	<50.0	NA*	<250	<100	<250	NA*	<200	<200	NA*
Bromoform	40	<200	<400	NA*	<2000	<800	<2000	NA*	<1600	<1600	NA*
Bromomethane	10	<100	<200	NA*	<1000	<400	<1000	NA*	<800	<800	NA*
Carbon tetrachloride	3	<100	<50.0	NA*	<250	<400	<250	NA*	<800	<200	NA*
Chlorobenzene	100	<25.0	<50.0	NA*	<250	<100	<250	NA*	<200	<200	NA*
Chloroethane	300	<25.0	<50.0	NA*	<250	<100	<250	NA*	<200	<200	NA*
Chloroform	30	<25.0	<50.0	NA*	<250	<100	<250	NA*	<200	<200	NA*
Chloromethane	NL	<100	<200	NA*	<250	<400	<1000	NA*	<800	<800	NA*
cis-1,2-Dichloroethene	50	<25.0	<50.0	<2000	3250	<100	<250	<500	<200	<200	1,090
cis-1,3-Dichloropropene	NL	<100	<200	NA*	<1000	<400	<1000	NA*	<800	<800	NA*
Dibromochloromethane	10	<25.0	<50.0	NA*	<250	<100	<250	NA*	<200	<200	NA*
Dibromomethane	NL	<25.0	<50.0	NA*	<250	<100	<250	NA*	<200	<200	NA*
Dichlorodifluoromethane	1000	<25.0	<50.0	NA*	<250	<100	<250	NA*	<200	<200	NA*
Dichlorofluoromethane	NL	<25.0	<50.0	NA*	<250	<100	<250	NA*	<200	<200	NA*
Diethyl ether (Ethyl ether)	1000	<100	<200	NA*	<1000	<400	<1000	NA*	<800	<800	NA*
Ethylbenzene	700	<25.0	<50.0	NA*	<250	<100	<250	NA*	<200	<200	NA*
Hexachloro-1,3-butadiene	1	<100	<200	NA*	<1000	<400	<1000	NA*	<800	<800	NA*
Isopropylbenzene (Cumene)	300	<25.0	<50.0	NA*	<250	<100	<250	NA*	<200	<200	NA*
m&p-Xylene	NL	<50.0	<100	NA*	<500	<200	<500	NA*	<400	<400	NA*
Methylene Chloride	5	<100	<200	NA*	<1000	<400	<1000	NA*	<800	<800	NA*
Methyl-tert-butyl ether	70	<25.0	<50.0	NA*	<250	<100	<250	NA*	<200	<200	NA*
Naphthalene	300	<100	<200	NA*	<1000	<400	<1000	NA*	<800	<800	NA*
n-Butylbenzene	NL	<25.0	<50.0	NA*	<250	<100	<250	NA*	<200	<200	NA*
n-Propylbenzene	NL	<25.0	<50.0	NA*	<250	<100	<250	NA*	<200	<200	NA*
o-Xylene	NL	<25.0	<50.0	NA*	<250	<100	<250	NA*	<200	<200	NA*
p-Isopropyltoluene	NL	<25.0	<50.0	NA*	<250	<100	<250	NA*	<200	<200	NA*
sec-Butylbenzene	NL	<25.0	<50.0	NA*	<250	<100	<250	NA*	<200	<200	NA*
Styrene	NL	<25.0	<50.0	NA*	<250	<100	<250	NA*	<200	<200	NA*
tert-Butylbenzene	NL	<25.0	<50.0	NA*	<250	<100	<250	NA*	<200	<200	NA*
Tetrachloroethene	5	3,330	6,820	161,000	157,000	10,600	32,000	38,200	34,600	20,300	152,000
Tetrahydrofuran	100	<250	<500	NA*	<2500	<1000	<2500	NA*	<2000	<2000	NA*
Toluene	1000	<25.0	<50.0	NA*	<250	<100	<250	NA*	<200	<200	NA*
trans-1,2-Dichloroethene	100	<25.0	<50.0	<2000	<250	<100	<250	<500	<200	<200	<500
trans-1,3-Dichloropropene	NL	<100	<200	NA*	<1000	<400	<1000	NA*	<800	<800	NA*
Trichloroethene	5	<25.0	<50.0	<2000	563	<100	<250	<500	<200	<200	<500
Trichlorofluoromethane	2000	<25.0	<50.0	NA*	<250	<100	<250	NA*	<200	<200	NA*
Vinyl chloride	0.2	<10.0	<20.0	<800	<100	<40.0	<100	<200	<80.0	<80.0	<200
Xylene (Total)	10000	<75.0	<150	NA*	<750	<300	<750	NA*	<600	<600	NA*

Notes:
NL: No Limit
NA*: Not Analyzed

1,620 Parameter detected above laboratory reporting limit
5.2 Parameter detected above MDH Health Risk Limit

TABLE 10

GROUNDWATER ANALYTICAL RESULTS (ug/L)
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Sample ID	MDH Health	DPE-4	DPE-4	DPE-4	DPE-5	DPE-5	DPE-5	DPE-6	DPE-6	DPE-6
Collected Date and Time	Risk Limits	11/17/2009	09/28/2009	12/10/2008	11/17/2009	09/24/2009	12/10/2008	11/17/2009	09/24/2009	12/10/2008
	5/09	10:50	10:13	11:20	11:00	04:00	16:45	11:30	04:30	14:29
1,1,1,2-Tetrachloroethane	70	<50.0	<50.0	NA*	<10.0	<10.0	NA*	<1.0	<1.0	NA*
1,1,1-Trichloroethane	9000	<50.0	<50.0	NA*	<10.0	<10.0	NA*	<1.0	<1.0	NA*
1,1,2,2-Tetrachloroethane	2	<50.0	<50.0	NA*	<10.0	<10.0	NA*	<1.0	<1.0	NA*
1,1,2-Trichloroethane	3	<50.0	<50.0	NA*	<10.0	<10.0	NA*	<1.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	464	339	NA*	498	37.9	NA*	<1.0	3.5	NA*
1,1-Dichloroethane	70	<50.0	<50.0	NA*	<10.0	<10.0	NA*	<1.0	<1.0	NA*
1,1-Dichloroethene	6	<50.0	<50.0	<500	<10.0	<10.0	<10.0	<1.0	<1.0	<2.0
1,1-Dichloropropene	NL	<50.0	<50.0	NA*	<10.0	<10.0	NA*	<1.0	<1.0	NA*
1,2,3-Trichlorobenzene	NL	<50.0	<50.0	NA*	<10.0	<10.0	NA*	<1.0	<1.0	NA*
1,2,3-Trichloropropane	40	<50.0	<50.0	NA*	<10.0	<10.0	NA*	<1.0	<1.0	NA*
1,2,4-Trichlorobenzene	NL	<50.0	<50.0	NA*	<10.0	<10.0	NA*	<1.0	<1.0	NA*
1,2,4-Trimethylbenzene	NL	<50.0	<50.0	NA*	<10.0	<10.0	NA*	<1.0	<1.0	NA*
1,2-Dibromo-3-chloropropane	NL	<200	<200	NA*	<40.0	<40.0	NA*	<4.0	<4.0	NA*
1,2-Dibromoethane (EDB)	.004	<50.0	<50.0	NA*	<10.0	<10.0	NA*	<1.0	<1.0	NA*
1,2-Dichlorobenzene	600	<50.0	<50.0	NA*	<10.0	<10.0	NA*	<1.0	<1.0	NA*
1,2-Dichloroethane	4	<50.0	<50.0	NA*	<10.0	<10.0	NA*	<1.0	<1.0	NA*
1,2-Dichloropropane	5	<50.0	<50.0	NA*	<10.0	<10.0	NA*	<1.0	<1.0	NA*
1,3,5-Trimethylbenzene	100	<50.0	<50.0	NA*	<10.0	<10.0	NA*	<1.0	<1.0	NA*
1,3-Dichlorobenzene	NL	<50.0	<50.0	NA*	<10.0	<10.0	NA*	<1.0	<1.0	NA*
1,3-Dichloropropane	NL	<50.0	<50.0	NA*	<10.0	<10.0	NA*	<1.0	<1.0	NA*
1,4-Dichlorobenzene	10	<50.0	<50.0	NA*	<10.0	<10.0	NA*	<1.0	<1.0	NA*
2,2-Dichloropropane	NL	<200	<50.0	NA*	<40.0	<10.0	NA*	<4.0	<1.0	NA*
2-Butanone (MEK)	4000	<200	<200	NA*	<40.0	<40.0	NA*	<4.0	<4.0	NA*
2-Chlorotoluene	NL	<50.0	<50.0	NA*	<10.0	<10.0	NA*	<1.0	<1.0	NA*
4-Chlorotoluene	NL	<50.0	<50.0	NA*	<10.0	<10.0	NA*	<1.0	<1.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<200	<200	NA*	<40.0	<40.0	NA*	<4.0	<4.0	NA*
Acetone	700	<500	<500	NA*	<100	<100	NA*	<10.0	<10.0	NA*
Allyl chloride	30	<200	<200	NA*	<40.0	<40.0	NA*	<4.0	<4.0	NA*
Benzene	2	<50.0	<50.0	NA*	<10.0	<10.0	NA*	<1.0	<1.0	NA*
Bromobenzene	NL	<50.0	<50.0	NA*	<10.0	<10.0	NA*	<1.0	<1.0	NA*
Bromochloromethane	NL	<50.0	<50.0	NA*	<10.0	<10.0	NA*	<1.0	<1.0	NA*
Bromodichloromethane	6	<50.0	<50.0	NA*	<10.0	<10.0	NA*	<1.0	<1.0	NA*
Bromoform	40	<400	<400	NA*	<80.0	<80.0	NA*	<8.0	<8.0	NA*
Bromomethane	10	<200	<200	NA*	<40.0	<40.0	NA*	<4.0	<4.0	NA*
Carbon tetrachloride	3	<200	<50.0	NA*	<40.0	<10.0	NA*	<4.0	<1.0	NA*
Chlorobenzene	100	<50.0	<50.0	NA*	<10.0	<10.0	NA*	<1.0	<1.0	NA*
Chloroethane	300	<50.0	<50.0	NA*	<10.0	<10.0	NA*	<1.0	<1.0	NA*
Chloroform	30	<50.0	<50.0	NA*	<10.0	<10.0	NA*	1.6	<1.0	NA*
Chloromethane	NL	<200	<200	NA*	<40.0	<40.0	NA*	<4.0	<4.0	NA*
cis-1,2-Dichloroethene	50	<50.0	<50.0	<500	<10.0	<10.0	<10.0	1.5	<1.0	<2.0
cis-1,3-Dichloropropene	NL	<200	<200	NA*	<40.0	<40.0	NA*	<4.0	<4.0	NA*
Dibromochloromethane	10	<50.0	<50.0	NA*	<10.0	<10.0	NA*	<1.0	<1.0	NA*
Dibromomethane	NL	<50.0	<50.0	NA*	<10.0	<10.0	NA*	<1.0	<1.0	NA*
Dichlorodifluoromethane	1000	<50.0	<50.0	NA*	<10.0	<10.0	NA*	<1.0	<1.0	NA*
Dichlorofluoromethane	NL	<50.0	<50.0	NA*	<10.0	<10.0	NA*	<1.0	<1.0	NA*
Diethyl ether (Ethyl ether)	1000	<200	<200	NA*	<40.0	<40.0	NA*	<4.0	<4.0	NA*
Ethylbenzene	700	<50.0	<50.0	NA*	<10.0	<10.0	NA*	<1.0	<1.0	NA*
Hexachloro-1,3-butadiene	1	<200	<200	NA*	<40.0	<40.0	NA*	<4.0	<4.0	NA*
Isopropylbenzene (Cumene)	300	<50.0	<50.0	NA*	<10.0	<10.0	NA*	<1.0	<1.0	NA*
m&p-Xylene	NL	<100	<100	NA*	<20.0	<20.0	NA*	<2.0	<2.0	NA*
Methylene Chloride	5	<200	<200	NA*	<40.0	<40.0	NA*	<4.0	<4.0	NA*
Methyl-tert-butyl ether	70	<50.0	<50.0	NA*	<10.0	<10.0	NA*	<1.0	<1.0	NA*
Naphthalene	300	<200	<200	NA*	<40.0	<40.0	NA*	<4.0	<4.0	NA*
n-Butylbenzene	NL	<50.0	<50.0	NA*	<10.0	<10.0	NA*	<1.0	<1.0	NA*
n-Propylbenzene	NL	<50.0	<50.0	NA*	<10.0	<10.0	NA*	<1.0	<1.0	NA*
o-Xylene	NL	<50.0	<50.0	NA*	<10.0	<10.0	NA*	<1.0	<1.0	NA*
p-Isopropyltoluene	NL	<50.0	<50.0	NA*	<10.0	<10.0	NA*	<1.0	<1.0	NA*
sec-Butylbenzene	NL	<50.0	<50.0	NA*	<10.0	<10.0	NA*	<1.0	<1.0	NA*
Styrene	NL	<50.0	<50.0	NA*	<10.0	<10.0	NA*	<1.0	<1.0	NA*
tert-Butylbenzene	NL	<50.0	<50.0	NA*	<10.0	<10.0	NA*	<1.0	<1.0	NA*
Tetrachloroethene	5	5,040	7,340	35,600	1,450	875	1,340	104	79.3	188
Tetrahydrofuran	100	<500	<500	NA*	<100	<100	NA*	<10.0	<10.0	NA*
Toluene	1000	<50.0	<50.0	NA*	<10.0	<10.0	NA*	<1.0	<1.0	NA*
trans-1,2-Dichloroethene	100	<50.0	<50.0	<500	<10.0	<10.0	<10.0	<1.0	<1.0	<2.0
trans-1,3-Dichloropropene	NL	<200	<200	NA*	<40.0	<40.0	NA*	<4.0	<4.0	NA*
Trichloroethene	5	<50.0	<50.0	<500	<10.0	<10.0	<10.0	<1.0	<1.0	<2.0
Trichlorofluoromethane	2000	<50.0	<50.0	NA*	<10.0	<10.0	NA*	<1.0	<1.0	NA*
Vinyl chloride	0.2	<20.0	<20.0	<200	<4.0	<4.0	<4.0	<0.40	<0.40	<0.80
Xylene (Total)	10000	<150	<150	NA*	<30.0	<30.0	NA*	<3.0	<3.0	NA*

Notes:
NL: No Limit
NA*: Not Analyzed

1,620 Parameter detected above laboratory reporting limit
5.2 Parameter detected above MDH Health Risk Limit

TABLE 10

GROUNDWATER ANALYTICAL RESULTS (ug/L)
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Sample ID	MDH Health	DPE-7	DPE-7	DPE-7	DPE-8	DPE-8	DPE-8	MW-14	MW-14	MW-14
Collected Date and Time	Risk Limits	11/17/2009	09/24/2009	12/10/2008	11/17/2009	09/24/2009	12/10/2008	11/16/2009	10/01/2009	12/03/2008
	5/09	11:50	05:00	13:15	12:30	05:30	09:30	15:40	04:00	16:20
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	NA*	<10.0	<2.0	NA*	<1.0	<1.0	NA*
1,1,1-Trichloroethane	9000	<1.0	<1.0	NA*	<10.0	<2.0	NA*	<1.0	<1.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	NA*	<10.0	<2.0	NA*	<1.0	<1.0	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	NA*	<10.0	<2.0	NA*	<1.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	9.8	1.6	NA*	34.2	43.4	NA*	1.1	<1.0	NA*
1,1-Dichloroethane	70	<1.0	<1.0	NA*	<10.0	<2.0	NA*	<1.0	<1.0	NA*
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<10.0	<2.0	<100	<1.0	<1.0	<1.0
1,1-Dichloropropene	NL	<1.0	<1.0	NA*	<10.0	<2.0	NA*	<1.0	<1.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	NA*	<10.0	<2.0	NA*	<1.0	<1.0	NA*
1,2,3-Trichloropropane	40	<1.0	<1.0	NA*	<10.0	<2.0	NA*	<1.0	<1.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	NA*	<10.0	<2.0	NA*	<1.0	<1.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	NA*	<10.0	<2.0	NA*	<1.0	<1.0	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	NA*	<40.0	<8.0	NA*	<4.0	<4.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	NA*	<10.0	<2.0	NA*	<1.0	<1.0	NA*
1,2-Dichlorobenzene	600	<1.0	<1.0	NA*	<10.0	<2.0	NA*	<1.0	<1.0	NA*
1,2-Dichloroethane	4	<1.0	<1.0	NA*	<10.0	<2.0	NA*	<1.0	<1.0	NA*
1,2-Dichloropropane	5	<1.0	<1.0	NA*	<10.0	<2.0	NA*	<1.0	<1.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<1.0	NA*	<10.0	<2.0	NA*	<1.0	<1.0	NA*
1,3-Dichlorobenzene	NL	<1.0	<1.0	NA*	<10.0	<2.0	NA*	<1.0	<1.0	NA*
1,3-Dichloropropane	NL	<1.0	<1.0	NA*	<10.0	<2.0	NA*	<1.0	<1.0	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	NA*	<10.0	<2.0	NA*	<1.0	<1.0	NA*
2,2-Dichloropropane	NL	<4.0	<1.0	NA*	<40.0	<2.0	NA*	<4.0	<1.0	NA*
2-Butanone (MEK)	4000	<4.0	<4.0	NA*	<40.0	24.1	NA*	<4.0	<4.0	NA*
2-Chlorotoluene	NL	<1.0	<1.0	NA*	<10.0	<2.0	NA*	<1.0	<1.0	NA*
4-Chlorotoluene	NL	<1.0	<1.0	NA*	<10.0	<2.0	NA*	<1.0	<1.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	NA*	<40.0	<8.0	NA*	<4.0	<4.0	NA*
Acetone	700	<10.0	<10.0	NA*	<100	<20.0	NA*	<10.0	<10.0	NA*
Allyl chloride	30	<4.0	<4.0	NA*	<40.0	<8.0	NA*	<4.0	<4.0	NA*
Benzene	2	<1.0	<1.0	NA*	<10.0	<2.0	NA*	<1.0	<1.0	NA*
Bromobenzene	NL	<1.0	<1.0	NA*	<10.0	<2.0	NA*	<1.0	<1.0	NA*
Bromochloromethane	NL	<1.0	<1.0	NA*	<10.0	<2.0	NA*	<1.0	<1.0	NA*
Bromodichloromethane	6	<1.0	<1.0	NA*	<10.0	<2.0	NA*	<1.0	<1.0	NA*
Bromoform	40	<8.0	<8.0	NA*	<80.0	<16.0	NA*	<8.0	<8.0	NA*
Bromomethane	10	<4.0	<4.0	NA*	<40.0	<8.0	NA*	<4.0	<4.0	NA*
Carbon tetrachloride	3	<4.0	<1.0	NA*	<40.0	<2.0	NA*	<4.0	<1.0	NA*
Chlorobenzene	100	<1.0	<1.0	NA*	<10.0	<2.0	NA*	<1.0	<1.0	NA*
Chloroethane	300	<1.0	<1.0	NA*	<10.0	<2.0	NA*	<1.0	<1.0	NA*
Chloroform	30	1.1	1.3	NA*	<10.0	<2.0	NA*	2.7	3.7	NA*
Chloromethane	NL	<4.0	<4.0	NA*	<40.0	<8.0	NA*	<4.0	<4.0	NA*
cis-1,2-Dichloroethene	50	<1.0	<1.0	<1.0	<10.0	<2.0	<100	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	NA*	<40.0	<8.0	NA*	<4.0	<4.0	NA*
Dibromochloromethane	10	<1.0	<1.0	NA*	<10.0	<2.0	NA*	<1.0	<1.0	NA*
Dibromomethane	NL	<1.0	<1.0	NA*	<10.0	<2.0	NA*	<1.0	<1.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	NA*	<10.0	<2.0	NA*	<1.0	<1.0	NA*
Dichlorofluoromethane	NL	<1.0	<1.0	NA*	<10.0	<2.0	NA*	<1.0	<1.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	NA*	<40.0	<8.0	NA*	<4.0	<4.0	NA*
Ethylbenzene	700	<1.0	<1.0	NA*	<10.0	<2.0	NA*	<1.0	<1.0	NA*
Hexachloro-1,3-butadiene	1	<4.0	<4.0	NA*	<40.0	<8.0	NA*	<4.0	<4.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	<1.0	NA*	<10.0	<2.0	NA*	<1.0	<1.0	NA*
m&p-Xylene	NL	<2.0	<2.0	NA*	<20.0	<4.0	NA*	<2.0	<2.0	NA*
Methylene Chloride	5	<4.0	<4.0	NA*	<40.0	<8.0	NA*	<4.0	<4.0	NA*
Methyl-tert-butyl ether	70	<1.0	<1.0	NA*	<10.0	<2.0	NA*	<1.0	<1.0	NA*
Naphthalene	300	<4.0	<4.0	NA*	<40.0	<8.0	NA*	<4.0	<4.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	NA*	<10.0	<2.0	NA*	<1.0	<1.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	NA*	<10.0	<2.0	NA*	<1.0	<1.0	NA*
o-Xylene	NL	<1.0	<1.0	NA*	<10.0	<2.0	NA*	<1.0	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	NA*	<10.0	<2.0	NA*	<1.0	<1.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	NA*	<10.0	<2.0	NA*	<1.0	<1.0	NA*
Styrene	NL	<1.0	<1.0	NA*	<10.0	<2.0	NA*	<1.0	<1.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	NA*	<10.0	<2.0	NA*	<1.0	<1.0	NA*
Tetrachloroethene	5	55.2	5.2	22.3	1,480	1,850	14,200	7.1	4.2	30.6
Tetrahydrofuran	100	<10.0	<10.0	NA*	<100	46.1	NA*	<10.0	<10.0	NA*
Toluene	1000	<1.0	<1.0	NA*	<10.0	<2.0	NA*	<1.0	<1.0	NA*
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<10.0	<2.0	<100	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	NA*	<40.0	<8.0	NA*	<4.0	<4.0	NA*
Trichloroethene	5	<1.0	<1.0	<1.0	<10.0	<2.0	<100	<1.0	<1.0	<1.0
Trichlorofluoromethane	2000	<1.0	<1.0	NA*	<10.0	<2.0	NA*	<1.0	<1.0	NA*
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<4.0	<0.80	<40.0	<0.40	<0.40	<0.40
Xylene (Total)	10000	<3.0	<3.0	NA*	<30.0	<6.0	NA*	<3.0	<3.0	NA*

Notes:

NL: No Limit

NA*: Not Analyzed

1,620 Parameter detected above laboratory reporting limit

5.2 Parameter detected above MDH Health Risk Limit

TABLE 10

GROUNDWATER ANALYTICAL RESULTS (ug/L)
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Sample ID	MDH Health	MW-15	MW-15	MW-15	MW-16	MW-16	MW-16	MW-17	MW-17	MW-17
Collected Date and Time	Risk Limits 5/09	11/16/2009 17:00	10/01/2009 04:20	12/10/2008 12:15	11/16/2009 19:20	10/01/2009 04:25	12/03/2008 12:35	11/16/2009 18:10	10/01/2009 05:20	12/03/2008 13:10
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	NA*	<250	<10.0	NA*	<5.0	<2.0	NA*
1,1,1-Trichloroethane	9000	<1.0	<1.0	NA*	<250	<10.0	NA*	<5.0	<2.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	NA*	<250	<10.0	NA*	<5.0	<2.0	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	NA*	<250	<10.0	NA*	<5.0	<2.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	6.4	6.4	NA*	1,390	779	NA*	199	249	NA*
1,1-Dichloroethane	70	<1.0	<1.0	NA*	<250	<10.0	NA*	<5.0	<2.0	NA*
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<250	<10.0	<1.0	<5.0	<2.0	<5.0
1,1-Dichloropropene	NL	<1.0	<1.0	NA*	<250	<10.0	NA*	<5.0	<2.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	NA*	<250	<10.0	NA*	<5.0	<2.0	NA*
1,2,3-Trichloropropane	40	<1.0	<1.0	NA*	<250	<10.0	NA*	<5.0	<2.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	NA*	<250	<10.0	NA*	<5.0	<2.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	NA*	<250	<10.0	NA*	<5.0	<2.0	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	NA*	<1000	<40.0	NA*	<20.0	<8.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	NA*	<250	<10.0	NA*	<5.0	<2.0	NA*
1,2-Dichlorobenzene	600	<1.0	<1.0	NA*	<250	<10.0	NA*	<5.0	<2.0	NA*
1,2-Dichloroethane	4	<1.0	<1.0	NA*	<250	<10.0	NA*	<5.0	<2.0	NA*
1,2-Dichloropropane	5	<1.0	<1.0	NA*	<250	<10.0	NA*	<5.0	<2.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<1.0	NA*	<250	<10.0	NA*	<5.0	<2.0	NA*
1,3-Dichlorobenzene	NL	<1.0	<1.0	NA*	<250	<10.0	NA*	<5.0	<2.0	NA*
1,3-Dichloropropane	NL	<1.0	<1.0	NA*	<250	<10.0	NA*	<5.0	<2.0	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	NA*	<250	<10.0	NA*	<5.0	<2.0	NA*
2,2-Dichloropropane	NL	<4.0	<1.0	NA*	<1000	<10.0	NA*	<20.0	<2.0	NA*
2-Butanone (MEK)	4000	5.1	<4.0	NA*	<1000	<40.0	NA*	<20.0	<8.0	NA*
2-Chlorotoluene	NL	<1.0	<1.0	NA*	<250	<10.0	NA*	<5.0	<2.0	NA*
4-Chlorotoluene	NL	<1.0	<1.0	NA*	<250	<10.0	NA*	<5.0	<2.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	NA*	<1000	<40.0	NA*	<20.0	<8.0	NA*
Acetone	700	<10.0	<10.0	NA*	<2500	<100	NA*	<50.0	<20.0	NA*
Allyl chloride	30	<4.0	<4.0	NA*	<1000	<40.0	NA*	<20.0	<8.0	NA*
Benzene	2	<1.0	<1.0	NA*	<250	<10.0	NA*	<5.0	<2.0	NA*
Bromobenzene	NL	<1.0	<1.0	NA*	<250	<10.0	NA*	<5.0	<2.0	NA*
Bromochloromethane	NL	<1.0	<1.0	NA*	<250	<10.0	NA*	<5.0	<2.0	NA*
Bromodichloromethane	6	<1.0	<1.0	NA*	<250	<10.0	NA*	<5.0	<2.0	NA*
Bromoform	40	<8.0	<8.0	NA*	<2000	<80.0	NA*	<40.0	<16.0	NA*
Bromomethane	10	<4.0	<4.0	NA*	<1000	<40.0	NA*	<20.0	<8.0	NA*
Carbon tetrachloride	3	<4.0	<1.0	NA*	<1000	<10.0	NA*	<20.0	<2.0	NA*
Chlorobenzene	100	<1.0	<1.0	NA*	<250	<10.0	NA*	<5.0	<2.0	NA*
Chloroethane	300	<1.0	<1.0	NA*	<250	<10.0	NA*	<5.0	<2.0	NA*
Chloroform	30	2.2	2.2	NA*	<250	<10.0	NA*	<5.0	2.4	NA*
Chloromethane	NL	<4.0	<4.0	NA*	<1000	<40.0	NA*	<20.0	<8.0	NA*
cis-1,2-Dichloroethene	50	<1.0	<1.0	<1.0	<250	24.0	133	7.9	4.8	<5.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	NA*	<1000	<40.0	NA*	<20.0	<8.0	NA*
Dibromochloromethane	10	<1.0	<1.0	NA*	<250	<10.0	NA*	<5.0	<2.0	NA*
Dibromomethane	NL	<1.0	<1.0	NA*	<250	<10.0	NA*	<5.0	<2.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	NA*	<250	<10.0	NA*	<5.0	<2.0	NA*
Dichlorofluoromethane	NL	<1.0	<1.0	NA*	<250	<10.0	NA*	<5.0	<2.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	NA*	<1000	<40.0	NA*	<20.0	<8.0	NA*
Ethylbenzene	700	<1.0	<1.0	NA*	<250	<10.0	NA*	<5.0	<2.0	NA*
Hexachloro-1,3-butadiene	1	<4.0	<4.0	NA*	<1000	<40.0	NA*	<20.0	<8.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	<1.0	NA*	<250	<10.0	NA*	<5.0	<2.0	NA*
m&p-Xylene	NL	<2.0	<2.0	NA*	<500	<20.0	NA*	<10.0	<4.0	NA*
Methylene Chloride	5	<4.0	<4.0	NA*	<1000	<40.0	NA*	<20.0	<8.0	NA*
Methyl-tert-butyl ether	70	<1.0	<1.0	NA*	<250	<10.0	NA*	<5.0	<2.0	NA*
Naphthalene	300	<4.0	<4.0	NA*	<1000	<40.0	NA*	<20.0	<8.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	NA*	<250	<10.0	NA*	<5.0	<2.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	NA*	<250	<10.0	NA*	<5.0	<2.0	NA*
o-Xylene	NL	<1.0	<1.0	NA*	<250	<10.0	NA*	<5.0	<2.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	NA*	<250	<10.0	NA*	<5.0	<2.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	NA*	<250	<10.0	NA*	<5.0	<2.0	NA*
Styrene	NL	<1.0	<1.0	NA*	<250	<10.0	NA*	<5.0	<2.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	NA*	<250	<10.0	NA*	<5.0	<2.0	NA*
Tetrachloroethene	5	9.5	15.7	104	21,000	6,890	14,100	1,100	803	363
Tetrahydrofuran	100	<10.0	<10.0	NA*	<2500	<100	NA*	<50.0	<20.0	NA*
Toluene	1000	<1.0	<1.0	NA*	<250	<10.0	NA*	<5.0	<2.0	NA*
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<250	<10.0	<1.0	<5.0	<2.0	<5.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	NA*	<1000	<40.0	NA*	<20.0	<8.0	NA*
Trichloroethene	5	<1.0	<1.0	<1.0	<250	<10.0	35.0	<5.0	<2.0	<5.0
Trichlorofluoromethane	2000	<1.0	<1.0	NA*	<250	<10.0	NA*	<5.0	<2.0	NA*
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<100	<4.0	<0.40	<2.0	<0.80	<2.0
Xylene (Total)	10000	<3.0	<3.0	NA*	<750	<30.0	NA*	<15.0	<6.0	NA*

Notes:
NL: No Limit
NA*: Not Analyzed

1,620 Parameter detected above laboratory reporting limit
5.2 Parameter detected above MDH Health Risk Limit

TABLE 10

GROUNDWATER ANALYTICAL RESULTS (ug/L)
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Sample ID	MDH Health	MW-18	MW-18	MW-18	MW-19	MW-19	MW-19	MW-20	MW-20	MW-20
Collected Date and Time	Risk Limits 5/09	11/16/2009 15:45	10/01/2009 05:46	12/03/2008 14:26	11/16/2009 16:30	09/24/2009 11:40	12/03/2008 16:59	11/16/2009 18:50	10/01/2009 06:00	12/10/2008 10:30
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	NA*	<1.0	<1.0	NA*	<2.0	<1.0	NA*
1,1,1-Trichloroethane	9000	<1.0	<1.0	NA*	<1.0	<1.0	NA*	<2.0	<1.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	NA*	<1.0	<1.0	NA*	<2.0	<1.0	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	NA*	<1.0	<1.0	NA*	<2.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	<1.0	2.7	NA*	1.9	2.4	NA*	37.4	33.5	NA*
1,1-Dichloroethane	70	<1.0	<1.0	NA*	<1.0	<1.0	NA*	<2.0	<1.0	NA*
1,1-Dichloroethene	6	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0
1,1-Dichloropropene	NL	<1.0	<1.0	NA*	<1.0	<1.0	NA*	<2.0	<1.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	NA*	<1.0	<1.0	NA*	<2.0	<1.0	NA*
1,2,3-Trichloropropane	40	<1.0	<1.0	NA*	<1.0	<1.0	NA*	<2.0	<1.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	NA*	<1.0	<1.0	NA*	<2.0	<1.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	NA*	<1.0	<1.0	NA*	<2.0	<1.0	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	NA*	<4.0	<4.0	NA*	<8.0	<4.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	NA*	<1.0	<1.0	NA*	<2.0	<1.0	NA*
1,2-Dichlorobenzene	600	<1.0	<1.0	NA*	<1.0	<1.0	NA*	<2.0	<1.0	NA*
1,2-Dichloroethane	4	<1.0	<1.0	NA*	<1.0	<1.0	NA*	<2.0	<1.0	NA*
1,2-Dichloropropane	5	<1.0	<1.0	NA*	<1.0	<1.0	NA*	<2.0	<1.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<1.0	NA*	<1.0	<1.0	NA*	<2.0	<1.0	NA*
1,3-Dichlorobenzene	NL	<1.0	<1.0	NA*	<1.0	<1.0	NA*	<2.0	<1.0	NA*
1,3-Dichloropropane	NL	<1.0	<1.0	NA*	<1.0	<1.0	NA*	<2.0	<1.0	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	NA*	<1.0	<1.0	NA*	<2.0	<1.0	NA*
2,2-Dichloropropane	NL	<4.0	<1.0	NA*	<4.0	<1.0	NA*	<8.0	<1.0	NA*
2-Butanone (MEK)	4000	<4.0	<4.0	NA*	<4.0	5.5	NA*	<8.0	<4.0	NA*
2-Chlorotoluene	NL	<1.0	<1.0	NA*	<1.0	<1.0	NA*	<2.0	<1.0	NA*
4-Chlorotoluene	NL	<1.0	<1.0	NA*	<1.0	<1.0	NA*	<2.0	<1.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	NA*	<4.0	<4.0	NA*	<8.0	<4.0	NA*
Acetone	700	<10.0	<10.0	NA*	<10.0	<10.0	NA*	<20.0	<10.0	NA*
Allyl chloride	30	<4.0	<4.0	NA*	<4.0	<4.0	NA*	<8.0	<4.0	NA*
Benzene	2	<1.0	<1.0	NA*	<1.0	<1.0	NA*	<2.0	<1.0	NA*
Bromobenzene	NL	<1.0	<1.0	NA*	<1.0	<1.0	NA*	<2.0	<1.0	NA*
Bromochloromethane	NL	<1.0	<1.0	NA*	<1.0	<1.0	NA*	<2.0	<1.0	NA*
Bromodichloromethane	6	<1.0	<1.0	NA*	<1.0	<1.0	NA*	<2.0	<1.0	NA*
Bromoform	40	<8.0	<8.0	NA*	<8.0	<8.0	NA*	<16.0	<8.0	NA*
Bromomethane	10	<4.0	<4.0	NA*	<4.0	<4.0	NA*	<8.0	<4.0	NA*
Carbon tetrachloride	3	<4.0	<1.0	NA*	<4.0	<1.0	NA*	<8.0	<1.0	NA*
Chlorobenzene	100	<1.0	<1.0	NA*	<1.0	<1.0	NA*	<2.0	<1.0	NA*
Chloroethane	300	<1.0	<1.0	NA*	<1.0	<1.0	NA*	<2.0	<1.0	NA*
Chloroform	30	<1.0	<1.0	NA*	<1.0	<1.0	NA*	<2.0	<1.0	NA*
Chloromethane	NL	<4.0	<4.0	NA*	<4.0	<4.0	NA*	<8.0	<4.0	NA*
cis-1,2-Dichloroethene	50	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	NA*	<4.0	<4.0	NA*	<8.0	<4.0	NA*
Dibromochloromethane	10	<1.0	<1.0	NA*	<1.0	<1.0	NA*	<2.0	<1.0	NA*
Dibromomethane	NL	<1.0	<1.0	NA*	<1.0	<1.0	NA*	<2.0	<1.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	NA*	<1.0	<1.0	NA*	<2.0	<1.0	NA*
Dichlorofluoromethane	NL	<1.0	<1.0	NA*	<1.0	<1.0	NA*	<2.0	<1.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	NA*	<4.0	<4.0	NA*	<8.0	<4.0	NA*
Ethylbenzene	700	<1.0	<1.0	NA*	<1.0	<1.0	NA*	<2.0	<1.0	NA*
Hexachloro-1,3-butadiene	1	<4.0	<4.0	NA*	<4.0	<4.0	NA*	<8.0	<4.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	<1.0	NA*	<1.0	<1.0	NA*	<2.0	<1.0	NA*
m&p-Xylene	NL	<2.0	<2.0	NA*	<2.0	<2.0	NA*	<4.0	<2.0	NA*
Methylene Chloride	5	<4.0	<4.0	NA*	<4.0	<4.0	NA*	<8.0	<4.0	NA*
Methyl-tert-butyl ether	70	<1.0	<1.0	NA*	<1.0	<1.0	NA*	<2.0	<1.0	NA*
Naphthalene	300	<4.0	<4.0	NA*	<4.0	<4.0	NA*	<8.0	<4.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	NA*	<1.0	<1.0	NA*	<2.0	<1.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	NA*	<1.0	<1.0	NA*	<2.0	<1.0	NA*
o-Xylene	NL	<1.0	<1.0	NA*	<1.0	<1.0	NA*	<2.0	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	NA*	<1.0	<1.0	NA*	<2.0	<1.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	NA*	<1.0	<1.0	NA*	<2.0	<1.0	NA*
Styrene	NL	<1.0	<1.0	NA*	<1.0	<1.0	NA*	<2.0	<1.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	NA*	<1.0	<1.0	NA*	<2.0	<1.0	NA*
Tetrachloroethene	5	130	250	257	13.6	17.4	2.4	307	713	599
Tetrahydrofuran	100	<10.0	<10.0	NA*	<10.0	<10.0	NA*	<20.0	<10.0	NA*
Toluene	1000	<1.0	<1.0	NA*	<1.0	<1.0	NA*	<2.0	<1.0	NA*
trans-1,2-Dichloroethene	100	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	NA*	<4.0	<4.0	NA*	<8.0	<4.0	NA*
Trichloroethene	5	2.1	2.6	<2.0	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0
Trichlorofluoromethane	2000	<1.0	<1.0	NA*	<1.0	<1.0	NA*	<2.0	<1.0	NA*
Vinyl chloride	0.2	<0.40	<0.40	<0.80	<0.40	<0.40	<0.40	<0.80	<0.40	<2.0
Xylene (Total)	10000	<3.0	<3.0	NA*	<3.0	<3.0	NA*	<6.0	<3.0	NA*

Notes:
NL: No Limit
NA*: Not Analyzed

1,620 Parameter detected above laboratory reporting limit
5.2 Parameter detected above MDH Health Risk Limit

TABLE 11

NATURAL ATTENUATION ANALYTICAL RESULTS (ug/L)
MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Sample ID Collected Date	DPE-1 09/28/2009 12:52	DPE-1 12/10/2008 13:50	DPE-2 09/28/2009 14:22	DPE-2 12/10/2008 11:45	DPE-3 09/28/200 9 15:25	DPE-3 12/10/2008 10:57	DPE-4 09/28/2009 10:13	DPE-4 12/10/2008 11:20	DPE-5 12/10/2008 16:45	DPE-5 09/24/2009 04:00
Calcium, Dissolved	NA*	**149,000**	NA*	**181,000**	NA*	**556,000**	NA*	**258,000**	**75,400**	NA*
Dissolved Organic Carbon	<2000	**4,800**	**2,000**	**2,800**	**3,700**	**6,900**	<2000	2700	4700	<2000
Iron, Dissolved	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Magnesium, Dissolved	NA*	**33,400**	NA*	**47,600**	NA*	**103,000**	NA*	**73,400**	**86,200**	NA*
Methane	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Nitrate as N	**5,900**	**6,400**	**4,900**	**7,800**	**7,100**	**9,800**	**11,000**	**26,800**	**5,500**	**5,500**
Sulfate	**157,000**	**250,000**	**174,000**	**182,000**	**296,000**	**436,000**	**168,000**	**235,000**	**468,000**	**281,000**
Sulfide	<5000	<5000	<5000	<5000	<5000	<5000	<5000	<5000	<5000	<5000

Notes:
Bold: Parameter detected above laboratory reporting limit
NA*: Not Analyzed

TABLE 11

NATURAL ATTENUATION ANALYTICAL RESULTS (ug/L)
MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Sample ID	DPE-6	DPE-6	DPE-7	DPE-7	DPE-8	DPE-8	MW14	MW-14
Collected Date	12/10/2008 14:29	09/24/2009 04:30	12/10/2008 13:15	09/24/2009 05:00	12/10/2008 09:30	09/24/2009 05:30	10/01/2009 04:00	12/03/2008 16:20
Calcium, Dissolved	**70,800**	NA*	**123,000**	NA*	**189,000**	NA*	NA*	**114,000**
Dissolved Organic Carbon	2500	<2000	**3,300**	<2000	**4,000**	**3,000**	**69,200**	**2,400**
Iron, Dissolved	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Magnesium, Dissolved	**17,700**	NA*	**23,400**	NA*	**36,800**	NA*	NA*	**30,400**
Methane	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	10.1	<10.0
Nitrate as N	**3,000**	**1,500**	**7,900**	**1,900**	**9,800**	**4,300**	**1,600**	**3,700**
Sulfate	**159,000**	**67,600**	**275,000**	**85,600**	**262,000**	**149,000**	**146,000**	**131,000**
Sulfide	<5000	<5000	<5000	<5000	<5000	<5000	<5000	<5000

Notes:
Bold: Parameter detected above laboratory reporting limit
NA*: Not Analyzed

TABLE 11

NATURAL ATTENUATION ANALYTICAL RESULTS (ug/L)
MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Sample ID	MW15	MW15	MW16	MW-16	MW17	MW-17	MW18	MW-18
Collected Date	10/01/2009 04:20	12/10/2008 12:15	10/01/2009 04:25	12/03/2008 12:35	10/01/2009 05:20	12/03/2008 13:10	10/01/2009 05:46	12/03/2008 14:26
Calcium, Dissolved	NA*	**67,700**	NA*	**194,000**	NA*	**76,300**	NA*	**99,000**
Dissolved Organic Carbon	**15,700**	<2000	**49,100**	**3,500**	**9,100**	**7,500**	**5,400**	**8,500**
Iron, Dissolved	<50.0	<50.0	<50.0	<50.0	<50.0	**50.1**	**88.3**	**4,190**
Magnesium, Dissolved	NA*	**18,700**	NA*	**70,200**	NA*	**29,100**	NA*	**52,600**
Methane	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Nitrate as N	**580**	**2,200**	**16,200**	NA*	**3,900**	NA*	<400	NA*
Sulfate	**99,900**	**87,500**	**258,000**	**253,000**	**159,000**	**199,000**	**110,000**	**115,000**
Sulfide	<5000	<5000	<5000	<5000	<5000	<5000	<5000	<5000

Notes:
Bold: Parameter detected above laboratory reporting limit
NA*: Not Analyzed

TABLE 11

NATURAL ATTENUATION ANALYTICAL RESULTS (ug/L)
MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Sample ID Collected Date	MW-19 09/24/2009 11:40	MW-19 12/03/2008 16:59	MW20 10/01/2009 06:00	MW20 12/10/2008 10:30
Calcium, Dissolved	NA*	**245,000**	NA*	**260,000**
Dissolved Organic Carbon	<2000	**3,100**	**20,300**	**2,700**
Iron, Dissolved	<50.0	<50.0	<50.0	<50.0
Magnesium, Dissolved	NA*	**71,100**	NA*	**65,900**
Methane	**10.7**	<10.0	**274**	**17.0**
Nitrate as N	**16,800**	NA*	**8900**	**10,900**
Sulfate	**156,000**	**187,000**	**139,000**	**203,000**
Sulfide	<5000	<5000	<5000	<5000

Notes:
Bold: Parameter detected above laboratory reporting limit
NA*: Not Analyzed

TABLE 12

GROUNDWATER FIELD DATA
MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Monitoring Well	Date Measured	Temp (Deg. C)	Conductivity @ 25 deg. C (uS/cm)	pH	Redox Potential (Eh)	Dissolved Oxygen	Head Space (ppm)
MW-14	12/3/2008	15.1	735	7.41	228	2.6	1.752
MW-14	10/1/2009	18.8	1825	7.84	181	3.6	NR
MW-14	11/16/2009	19.22	1747	6.74	47.5	3.48	NR
MW-15	12/3/2008	13.4	735	8.18	87	3.8	279
MW-15	10/1/2009	18.4	920	8.08	167	5.22	NR
MW-15	11/16/2009	19.6	1155	7.35	200	4.53	NR
MW-16	12/3/2008	14.5	735	8.21	-45	1.9	40
MW-16	10/1/2009	18.27	1182	7.46	214	9.68	NR
MW-16	11/16/2009	18.82	4048	6.91	170	3.67	NR
MW-17	12/3/2008	14.8	735	8.99	-99	2.6	1.3
MW-17	10/1/2009	17.8	1428	8.6	175	1.99	NR
MW-17	11/16/2009	17.62	1761	7.34	29	1.62	NR
MW-18	12/3/2008	14.9	735	8.06	-137	3.1	1.2
MW-18	10/1/2009	17.8	1497	7.75	176	1.47	NR
MW-18	11/16/2009	16.46	2588	6.6	54.7	1.09	NR
MW-19	12/3/2008	13.7	735	7.20	219	2.2	0.13
MW-19	10/1/2009	15.6	3667	7.03	163	225	NR
MW-19	11/16/2009	15.96	3482	6.13	226	3.03	NR
MW-20	12/3/2008	13.1	753	7.47	139	1.8	3.279
MW-20	10/1/2009	17.5	4008	7.31	317	6.19	NR
MW-20	11/16/2009	17.31	3760	6.8	288	3.85	NR
DPE-1	12/3/2008	14.5	735	8.02	-4.9	0.9	10.5
DPE-1	9/28/2009	18.1	2584	7.64	170	4.8	NR
DPE-1	11/16/2009	18.18	2595	7.52	173	4.98	NR
DPE-2	12/3/2008	14.4	735	7.83	109	1.9	**2000**
DPE-2	9/28/2009	18.2	2440	8	81	7.82	NR
DPE-2	11/17/2009	18.15	4523	6.86	114	5.43	NR
DPE-3	12/3/2008	13.4	735	7.96	127	2.5	1684
DPE-3	9/28/2009	17.3	7799	7.95	158	7.05	NR
DPE-3	11/17/2009	17.43	4442	7.1	208	3.32	NR
DPE-4	12/3/2008	13.5	735	7.84	114	1.9	**2000**
DPE-4	9/28/2009	17.14	3230	8.25	87.4	8.22	NR
DPE-4	11/17/2009	17.49	4057	7.16	285	5.2	NR

TABLE 12

GROUNDWATER FIELD DATA
MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Monitoring Well	Date Measured	Temp (Deg. C)	Conductivity @ 25 deg. C (uS/cm)	pH	Redox Potential (Eh)	Dissolved Oxygen	Head Space (ppm)
DPE-5	12/3/2008	14.3	735	9.26	13	0.5	1.3
DPE-5	9/28/2009	17.06	2264	7.94	181	0.2	NR
DPE-5	11/17/2009	18.02	2921	7.58	204	4.15	NR
DPE-6	12/3/2008	14.6	735	8.12	67.1	1.9	1.2
DPE-6	9/28/2009	18.6	1086	8.39	98.6	9.8	NR
DPE-6	11/17/2009	18.7	1400	7.81	249	6.3	NR
DPE-7	12/3/2008	15.2	735	7.95	92.8	0.4	2.5
DPE-7	9/28/2009	17.15	2216	7.01	196	2.14	NR
DPE-7	11/17/2009	19.01	2095	7.97	193	5.01	NR
DPE-8	12/3/2008	13.6	753	7.52	165	1.4	1056
DPE-8	9/28/2009	17.31	2826	7.93	460	6.61	NR
DPE-8	11/17/2009	1678	3604	7.2	226	5.19	NR

Notes:
Bold - number has exceeded the range of the instrument

Attachments

Attachment A

Attachment A - Table 1

DPE System Operational Data
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Date	Time	Extraction Well	DPE Pump Hours	Hours per Period	Flow Rate				DPE Air Flow (scf)	Pump Inlet Vacuum (in. Hg)	Post-MS Vacuum (in. Hg)	DPE Well/Pre-MS Vacuum (in. Hg)		Pre-Manifold Vacuum (in. Hg)	DPE Well Head/Drop Tube Vacuum (in. Hg)	DPE Well Casing Vacuum (in. H_2O)	DPE Pump Outlet Pressure		DPE Pump Outlet Temp. (Deg. F)		DPE Exhaust PID (ppm)	Extraction Well Bleed Valve % Open	DPE Pump Bleed Valve % Open	Comments
					Field (scfm)	Analog (scfm)	Analog (m^3/s)	Analog (acfm)				Analog	Field				Analog (psi)	Field (in H_2O)	Analog	Field				
6/29/2009	1640	DPE-1	88.0	88.0	25	20.9	0.010	134.3	6,000	25.3	NR	25.0	24.5	24	NR	NR	0	0	229	200	NR	0	0	
9/4/2009	805	DPE-1	957.0	869.0	25	24.3	0.011	109.5	1,208,000	23.3	9.4	9.7	9.8	9.1	NR	86	0.02	0	307	310	34	100	0	DPE Pump Screen plugged
9/4/2009	946	DPE-1	957.0	0.0	40	36.1	0.017	120.5	1,209,000	21.0	21.0	20.4	21.0	20.0	NR	149	0	0	210	248	>4000	100	0	DPE & AS exhaust sampled
9/4/2009	1135	DPE-1	959.0	2.0	25	27.3	0.013	117.2	1,212,000	23.0	22.5	22.7	22.5	22.5	NR	>150	0	0	275	270	>4000	30	0	1 micron MS filter installed
10/15/2009	1120	DPE-1	1899.0	940.0	35	31.6	0.015	135.9	2,658,000	23.0	22.5	22.2	22.5	22.5	NR	>150	0	0	283	270	ND	20	0	Exhaust sampled
10/16/2009	621	DPE-1	1911.0	12.0	35	32.4	0.015	142.2	2,684,000	23.1	22.5	22.4	22.5	22.0	NR	>150	NR	0	291	299	ND	100	0	6-hr composite air sample collected
10/23/2009	922	DPE-3	1924.0	13.0	70	70.6	0.033	143.0	2,715,000	15.2	14.1	14.6	14.0	13.8	NR	90	0	NR	199	190	ND	100	0	
11/17/2009	1800	DPE-1	2361.0	437.0	30	28.6	0.013	144.2	3,992,000	24.0	23.5	23.0	23.5	23.0	NR	>150	0	0	301	300	>4000	100	0	6-hr composite air sample collected
12/17/2009	907	DPE-5	2960.0	599.0	NR	62.1	0.029	177.8	6,218,000	19.5	19.0	18.7	18.9	18.9	NR	155	0	0	247	248	850	NR	NR	6-hr composite air sample collected
12/28/2009	1300	DPE-2	3228.0	268.0	60	60.7	0.029	187.9	7,333,000	20.3	17.2	17.21	17.20	17.2	NR	122	0	0	266	268	720	NR	NR	
1/14/2010	923	DPE-5	3568.0	340.0	100	97.8	0.046	201.1	8,769,000	15.5	14.9	14.46	NR	14.9	NR	98	0	0	182	156	NR	NR	NR	6-hr composite air sample collected
1/27/2010	NR	DPE-7	3789.0	221.0	75	88.6	0.042	215.3	9,633,000	17.7	18.0	16.87	16.00	16.0	NR	68	0	0	156	165	NR	NR	NR	

Notes:
NR: Not recorded.
NA: Not applicable.

Attachment A - Table 2

Moisture Separator and Sump Operational Data
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Date	Time	MS Vacuum Valve hours	MS pump Hours	MS Pump Flow Totalizer (gal)		MS Pump Flow Rate (gpm)		MS Pump Pressure (psi)	Elevator Sump Water Flow (gal)		Comments
				Analog	Field	Analog	Field		Analog	Field	
6/29/2009	1640	49	48	8,464	8,473	NR	10.2	NR	300	NR	
9/4/2009	805	49	96	38,299	38,213	NP	12.0	21.0	300	500	
10/15/2009	1120	49	131	62,643	64,283	NP	11.8	44.0	300	500	
10/16/2009	621	49	131	62,886	NR	NP	NR	NR	300	500	
10/23/2009	922	49	132	63,113	NR	NR	NR	NR	300	500	
11/17/2009	1800	49	148	73,800	75,787	11.1	11.2	28.0	300	NR	
12/17/2009	907	49	175	89,800	92,293	NR	10.3	30.8	330	NR	
12/28/2009	1300	49	187	97,028	99,694	NR	11.0	NR	330	NR	
1/14/2010	923	49	202	106,024	108,984	NR	10.7	36.0	330	NR	
1/27/2010	NR	49	210	111,633	114,661	12.9	12.2	16.0	330	NR	

Notes:
NR: Not recorded.
NP: Not pumping

Attachment A - Table 3

Air Stripper Operational Data
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Date	Time	AS Blower Hours	AS Discharge Pump Hours	AS Blower Pressure (in. H_2O)	AS Exhaust Pressure (in. H_2O)	AS Discharge Pump Pressure (psi)	AS Exhaust PID (ppm)	Comments
6/29/2009	1640	54	4	18	12	29	NR	
9/4/2009	805	382	34	18	11	0	2140	PID was 180 ppm late in 20 min blower cycle
9/4/2009	946	383	34	18	11	31	509	
10/15/2009	1120	649	55	18	11	NR	ND	
10/16/2009	621	651	56	18	11	NR	ND	
10/23/2009	922	654	56	NR	NR	NR	NR	
11/17/2009	1800	772	65	18	12	NR	NR	
12/17/2009	902	951	78	18	11	30	71	
12/28/2009	1300	1032	84	17	11	NR	268	
1/14/2010	1800	1133	92	17	10	24	ND	
1/27/2010	NR	1188	96	18	11	24	NR	

Notes:
NR: Not recorded.
NP: Not pumping.
ND: Not detected.

Attachement A - Table 4

DPE Well Casing Vacuum Data (in. H_2O)
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Date	DPE-1	DPE-2	DPE-3	DPE-4	DPE-5	DPE-6	DPE-7	DPE-8
7/9/2009	**129.0**	2.6	0.1	0.1	0.4	1.9	2.4	0.0
8/11/2009	**117.0**	0.0	0.0	0.8	0.0	2.2	2.9	0.0
9/4/2009	**86.0**	NR	NR	NR	NR	NR	NR	NR
9/4/2009	**149.0**	NR	NR	NR	NR	NR	NR	NR
9/4/2009	**>150**	NR	NR	NR	NR	NR	NR	NR
10/15/2009	**>150**	3.4	0.3	0.9	1.3	1.9	0.5	0.04
10/23/2009	0.001	0.002	**90.0**	0.001	0.002	0.002	0.003	0.001
11/17/2009	0.000	0.000	0.000	0.000	**>150**	0.000	0.000	0.000

Notes:
Bold indicates the current operating extraction well.

Attachement A - Table 5

DPE Well PID Readings
221 1st Avenue SW
Rochester, Minnesota

Well ID	Date	PID (ppm)	DPE Exhaust Flow Rate (scfm)	DPE Pump Inlet Vacuum (in. Hg)
DPE-1	27-Oct-09	37	45.0	18.00
DPE-2	27-Oct-09	50.6	40.0	19.00
DPE-3	27-Oct-09	15.7	73.0	15.00
DPE-4	27-Oct-09	23.9	35.0	22.00
DPE-5	27-Oct-09	3.8	40.0	22.00
DPE-6	27-Oct-09	ND	55.0	17.00
DPE-7	27-Oct-09	ND	60.0	16.00
DPE-8	27-Oct-09	ND	45.0	22.00
DPE-1	16-Nov-09	4000	56.3	20.28
DPE-2	16-Nov-09	0	39.0	22.13
DPE-3	16-Nov-09	1600	65.0	18.94
DPE-4	16-Nov-09	3.7	28.6	23.94
DPE-5	16-Nov-09	4000	30.4	23.88
DPE-6	16-Nov-09	4000	66.9	18.78
DPE-7	16-Nov-09	4000	75.5	17.70
DPE-8	16-Nov-09	4000	29.3	23.87
DPE-1	17-Dec-09	4000	62.1	19.53
DPE-2	17-Dec-09	11.8	NR	NR
DPE-3	17-Dec-09	57.5	NR	NR
DPE-4	17-Dec-09	4000	NR	NR
DPE-5	17-Dec-09	850	NR	NR
DPE-6	17-Dec-09	1680	NR	NR
DPE-7	17-Dec-09	490	NR	NR
DPE-8	17-Dec-09	559	NR	NR
DPE-1	28-Dec-09	1120	NR	NR
DPE-2	28-Dec-09	720	NR	NR
DPE-3	28-Dec-09	22.8	NR	NR
DPE-4	28-Dec-09	3.4	NR	NR
DPE-5	28-Dec-09	4000	NR	NR
DPE-6	28-Dec-09	901	NR	NR
DPE-7	28-Dec-09	905	NR	NR
DPE-8	28-Dec-09	595	NR	NR
DPE-1	14-Jan-10	NR	NR	NR
DPE-2	14-Jan-10	NR	NR	NR
DPE-3	14-Jan-10	NR	NR	NR
DPE-4	14-Jan-10	NR	NR	NR
DPE-5	14-Jan-10	NR	NR	NR
DPE-6	14-Jan-10	NR	NR	NR
DPE-7	14-Jan-10	NR	NR	NR
DPE-8	14-Jan-10	NR	NR	NR

Attachement A - Table 6

DPE Well Water Level Readings
221 1st Avenue SW
Rochester, Minnesota

Location	Date	Total Well Depth (ft below TOC)	Static Water Level (ft below TOC)	Static Water Column Thickness (ft)	Static Water Volume (gallons)	Operating Depth (ft below TOC)	Operating Water Column Thickness (ft)
DPE-1	23-Oct-09	21.9	14.88	7.02	4.6	21.8	0.1
DPE-1	27-Oct-09	21.9	14.54	7.36	4.8	21.9	0.0
DPE-1	16-Nov-09	21.9	14.45	7.45	4.9	21.9	0.0
DPE-1	17-Dec-09	21.9	15.13	6.77	4.4	21.8	0.1
DPE-1	14-Jan-10	21.9	15.53	6.37	4.2	21.0	0.9
DPE-2	23-Oct-09	20.5	15.53	4.97	3.2	19.95	0.55
DPE-2	27-Oct-09	20.5	16.35	4.15	2.7	20.51	-0.01
DPE-2	16-Nov-09	20.5	15.19	5.31	3.5	20.8	-0.3
DPE-2	17-Dec-09	20.5	15.69	4.81	3.1	20.4	0.1
DPE-2	14-Jan-10	20.5	16.04	4.46	2.9	20.15	0.35
DPE-3	23-Oct-09	17.1	14.76	2.34	1.5	17.5	-0.4
DPE-3	27-Oct-09	17.1	14.51	2.59	1.7	17.8	-0.7
DPE-3	16-Nov-09	17.1	14.59	2.51	1.6	17.5	-0.4
DPE-3	17-Dec-09	17.1	15.28	1.82	1.2	17.2	-0.1
DPE-3	14-Jan-10	17.1	16.52	0.58	0.4	17.1	0.0
DPE-4	23-Oct-09	19.3	14.81	4.49	2.9	19.71	-0.41
DPE-4	27-Oct-09	19.3	14.58	4.72	3.1	19.8	-0.5
DPE-4	16-Nov-09	19.3	14.48	4.82	3.1	19.63	-0.33
DPE-4	17-Dec-09	19.3	15.44	3.86	2.5	19.3	0.0
DPE-4	14-Jan-10	19.3	16.08	3.22	2.1	19.6	-0.3
DPE-5	23-Oct-09	18.1	13.78	4.32	2.8	18.5	-0.4
DPE-5	27-Oct-09	18.1	13.52	4.58	3.0	18.7	-0.6
DPE-5	16-Nov-09	18.1	NR	NR	NR	18.1	0.0
DPE-5	14-Jan-10	18.1	15	3.1	2.0	19.2	-1.1
DPE-6	23-Oct-09	19.5	14.56	4.94	3.2	19.8	-0.3
DPE-6	27-Oct-09	19.5	14.31	5.19	3.4	19.5	0.0
DPE-6	16-Nov-09	19.5	14.24	5.26	3.4	19.52	-0.02
DPE-6	17-Dec-09	19.5	14.84	4.66	3.0	19.8	-0.3
DPE-6	14-Jan-10	19.5	15.14	4.36	2.8	19.8	-0.3
DPE-7	23-Oct-09	22.2	15.68	6.52	4.3	22.2	0.0
DPE-7	27-Oct-09	22.2	15.49	6.71	4.4	22.2	0.0
DPE-7	16-Nov-09	22.2	15.44	6.76	4.4	22.17	0.03
DPE-7	17-Dec-09	22.2	16.03	6.17	4.0	22.4	-0.2
DPE-7	14-Jan-10	22.2	16.26	5.94	3.9	22.1	0.1

Attachement A - Table 6

DPE Well Water Level Readings
221 1st Avenue SW
Rochester, Minnesota

Location	Date	Total Well Depth (ft below TOC)	Static Water Level (ft below TOC)	Static Water Column Thickness (ft)	Static Water Volume (gallons)	Operating Depth (ft below TOC)	Operating Water Column Thickness (ft)
DPE-8	23-Oct-09	17.5	13.18	4.32	2.8	17.3	0.2
DPE-8	27-Oct-09	17.5	13.24	4.26	2.8	17.9	-0.4
DPE-8	16-Nov-09	17.5	13.3	4.2	2.7	17.5	0.0
DPE-8	17-Dec-09	17.5	15.31	2.19	1.4	17.9	-0.4
DPE-8	14-Jan-10	17.5	16.58	0.92	0.6	17.75	-0.25

Attachment A - Table 7

Maintenance Schedule
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Maintenance Item	Sep-09	Oct-09	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10
DPE Pump Maintenance													
- Inspect Hoses, Piping and Fittings for Oil Leaks - MONTHLY	Sep 4	Oct 15, 16	Nov 16	Dec 17	Jan 14	X	X	X	X	X	X	X	X
- Check Oil Level (level should show at middle of site glass) - MONTHLY	Sep 4	Oct 15, 16	Nov 16	Dec 17	Jan 14	X	X	X	X	X	X	X	X
- Change Oil - EVERY 5,000 OPERATING HOURS								X					
- Inspect and Clean Pump Inlet Screen - EACH SITE VISIT	Sep 4	Oct 15, 16	Nov 6, 16, 27	Dec 4, 17, 28	Jan 14, 27	Feb 3	X	X	X	X	X	X	X
Moisture Separator Maintenance													
- Clean Floats - MONTHLY	Sep 4	Oct 15, 16, 23, 27	Nov 16	Dec 17	Jan 14	Feb 3	X	X	X	X	X	X	X
- Check Sediment - MONTHLY		Oct 27	Nov 16	Dec 17	Jan 14	Feb 3	X	X	X	X	X	X	X
- Remove Sediment - AS NEEDED		Oct 27	Nov 16			Feb 3							
- Replace Filter - If Pressure Drop Occurs													
- Transfer Pump (Moyno 34401 1 HP) - Inspect Hoses, Piping and Fittings	Sep 4	Oct 15, 16	Nov 16	Dec 17	Jan 14	X	X	X	X	X	X	X	X
for Water Leaks - MONTHLY													
Air Stripper Maintenance													
- Clean Air Stripper - ANNUALLY OR AS NEEDED								X					
- Discharge Pump (Meyers CT10 1 HP) - Inspect Hoses, Piping and	Sep 4	Oct 15, 16	Nov 16	Dec 17	Jan 14	X	X	X	X	X	X	X	X
Fittings for Water Leaks - MONTHLY													
- Blower (16N4 TBNA 3 HP) - Inspect Hoses, Piping and Fittings for	Sep 4	Oct 15, 16	Nov 16	Dec 17	Jan 14	X	X	X	X	X	X	X	X
Leaks - MONTHLY													
Solonoid Valve Maintenance													
- Inspect - MONTHLY	Sep 4	Oct 15, 16	Nov 16	Dec 17	Jan 14	X	X	X	X	X	X	X	X
- Clean - AS NEEDED		Oct 27	Nov 6	Dec 4									
- Rebuild - AS NEEDED				Dec 7									

Notes:

Sep 4: Date task completed.
X: Task to be completed during that month.

FIELD DATA SHEET

CLIENT NAME: CITY OF ROCHESTER
PROJECT ID: CRC
PROJECT NAME: MN BIO BUSINESS CENTER

DATE: 11/16/09
RECORDED BY: JDS

2009 SYSTEM STARTUP INFORMATION
Startup Date: 6/29/2009 MS Discharge Totalizer: 68 Sump Discharge Totalizer: 200

NOTES - **LEAVE VACUUM RELIEF VALVE SELECTOR SWITCH IN OFF POSITION**
LEAVE AIR STRIPPER SELECTOR SWITCHES IN AUTO POSITION

STATIC

CURRENT OPERATING WELL:
DPE WELL BLEED VALVE % OPEN:
DPE PUMP BLEED VALVE % OPEN:

ANALOG PANEL READINGS
DPE PUMP AIR FLOW (SCFM):
DPE WELL VACUUM (IN. HG):
DPE PUMP INLET VACUUM (IN. HG):
DPE PUMP OUTLET PRESSURE (PSI):
DPE PUMP OUTLET TEMP (DEG. F):
MS PUMP WATER FLOW (GPM):

TOTAL PANEL READINGS
DPE VACUUM PUMP (HRS):
MS PUMP (HRS):
MS VACUUM VALVE (HRS):
AIR STRIPPER BLOWER (HRS):
AIR STRIPPER PUMP (HRS):
DPE AIR FLOW (SCF):
MS PUMP WATER FLOW (GAL):
SUMP PUMP WATER FLOW (GAL):

FIELD MEASUREMENTS

	SCFM Pump Flowrate
DPE WELL CASING VACUUM (MM HG):	563
DPE WELL HEAD (DROP TUBE) VACUUM (IN. HG):	39
PRE-MANIFOLD VACUUM (IN. HG):	65
DPE WELL (PRE-MS) VACUUM (IN.HG):	28.6
POST-MS VACUUM (IN. HG):	30.4
DPE PUMP AIR FLOW (SCFM):	66.9
DPE EXHAUST PID CONC. (PPM):	75.5
DPE PUMP OUTLET PRESSURE (IN. H2O)):	29.3
DPE PUMP OUTLET TEMP (DEG. F):	

MS PUMP WATER FLOWRATE (WHILE PUMPING) (GPM):
MS PUMP WATER PRESSURE (WHILE PUMPING) (PSI):
MS PUMP FLOW TOTALIZER READING (GAL):

AS EXHAUST PRESSURE (IN. H20):
AS DISCHARGE PUMP PRESSURE (WHILE PUMPING) (PSI):
AS BLOWER PRESSURE (IN. H20):
AS EXHAUST PID (PPM):

ELEVATOR DRAIN TILE SUMP FLOW TOTALIZER (GAL):

WATER LEVEL MEASUREMENTS

		Clean to Dirty Ranking	Well Depth below TOC (FT)	Depth to Water below TOC (FT)
2	MW-14	3	17.5	11.87
3	MW-15	4	18	13.78
7	MW-16	10	18	11.44
5	MW-17	7	25	12.76
4	MW-18	6	60	13.83
1	MW-19	1	20	12.85
6	MW-20	8	16.7	11.02
	DPE-1	15	21.9	14.45
	DPE-2	13	20.5	15.19
	DPE-3	14	17.1	14.59
	DPE-4	12	19.3	14.48
	DPE-5	9	18.1	13.43
	DPE-6	5	19.5	14.24
	DPE-7	2	22.2	15.44
	DPE-8	11	17.5	13.30
	Sump	1	7.74	5.72

OPERATING WELLS
21.9
20.8
19.5
19.63
18.1
19.52
22.17
17.5

Pump Duty	VACUUMS	PID READINGS
DPE-1	20.28	DPE-1 4000
DPE-2	22.13	DPE-2 0
DPE-3	18.94	DPE-3 1600
DPE-4	23.94	DPE-4 3.7
DPE-5	23.88	DPE-5 4000
DPE-6	18.78	DPE-6 4000
DPE-7	17.7	DPE-7 4000
DPE-8	23.87	DPE-8 4000

SUMP ROOM PID:

BASEMENT PID READINGS:

AMBIENT ROOM TEMPERATURE
CURRENT: MAX:

COMMENTS/MAINTENANCE:

FIELD DATA SHEET

CLIENT NAME: CITY OF ROCHESTER
PROJECT ID: CRC
PROJECT NAME: MN BIO BUSINESS CENTER

DATE: 11/17/09
RECORDED BY: JDS

2009 SYSTEM STARTUP INFORMATION
Startup Date: 6/29/2009 MS Discharge Totalizer: 68 Sump Discharge Totalizer: 200

NOTES - **LEAVE VACUUM RELIEF VALVE SELECTOR SWITCH IN OFF POSITION**
LEAVE AIR STRIPPER SELECTOR SWITCHES IN AUTO POSITION

CURRENT OPERATING WELL: DPE - 5
DPE WELL BLEED VALVE % OPEN: 100
DPE PUMP BLEED VALVE % OPEN: 0

ANALOG PANEL READINGS
DPE PUMP AIR FLOW (SCFM): 28.6
DPE WELL VACUUM (IN. HG): 23.01
DPE PUMP INLET VACUUM (IN. HG): 24.02
DPE PUMP OUTLET PRESSURE (PSI): 0
DPE PUMP OUTLET TEMP (DEG. F): 301.3
MS PUMP WATER FLOW (GPM): 11.09

TOTAL PANEL READINGS
DPE VACUUM PUMP (HRS): 2361
MS PUMP (HRS): 148
MS VACUUM VALVE (HRS): 49
AIR STRIPPER BLOWER (HRS): 772
AIR STRIPPER PUMP (HRS): 65
DPE AIR FLOW (SCF): 3992000
MS PUMP WATER FLOW (GAL): 73,800
SUMP PUMP WATER FLOW (GAL): 300

FIELD MEASUREMENTS
DPE WELL CASING VACUUM (MM HG): >150
DPE WELL HEAD (DROP TUBE) VACUUM (IN. HG): —
PRE-MANIFOLD VACUUM (IN. HG): 23
DPE WELL (PRE-MS) VACUUM (IN.HG): 23.5
POST-MS VACUUM (IN. HG): 23.5
DPE PUMP AIR FLOW (SCFM): 30
DPE EXHAUST PID CONC. (PPM): Summa Can Connected
DPE PUMP OUTLET PRESSURE (IN. H2O)): 0
DPE PUMP OUTLET TEMP (DEG. F): 300

MS PUMP WATER FLOWRATE (WHILE PUMPING) (GPM): 11.2
MS PUMP WATER PRESSURE (WHILE PUMPING) (PSI): 28
MS PUMP FLOW TOTALIZER READING (GAL): 75787

AS EXHAUST PRESSURE (IN. H20): 19
AS DISCHARGE PUMP PRESSURE (WHILE PUMPING) (PSI):
AS BLOWER PRESSURE (IN. H20): 18
~~AS EXHAUST PID (PPM):~~

ELEVATOR DRAIN TILE SUMP FLOW TOTALIZER (GAL): 500

WATER LEVEL MEASUREMENTS

	Clean to Dirty Ranking	Well Depth below TOC (FT)	Depth to Water below TOC (FT)
MW-14	3	17.5	
MW-15	4	18	
MW-16	10	18	
MW-17	7	25	
MW-18	6	60	
MW-19	1	20	
MW-20	8	16.7	
DPE-1	15	21.9	
DPE-2	13	20.5	
DPE-3	14	17.1	
DPE-4	12	19.3	
DPE-5	9	18.1	
DPE-6	5	19.5	
DPE-7	2	22.2	
DPE-8	11	17.5	
Sump	1	7.74	

Adjust WL Stickup 6 7/8" (DPE-2/DPE-3); 10 3/8" (DPE-8)

WELL CASING VACUUMS		PID READINGS	
DPE-1	0	DPE-1	
DPE-2	0	DPE-2	
DPE-3	0	DPE-3	
DPE-4	0	DPE-4	
DPE-5	>150	DPE-5	
DPE-6	0	DPE-6	
DPE-7	0	DPE-7	
DPE-8	0	DPE-8	

SUMP ROOM PID:

BASEMENT PID READINGS:

AMBIENT ROOM TEMPERATURE
CURRENT: 73.2 MAX: 85.8

COMMENTS/MAINTENANCE:
10:50 ~~10:14~~ - Start test can ~~DPE~~ DPE-2 28 in Hg
1453 - 14 in Hg
1644 Started DPE-5

F:\PROJECTS\Crc-City of Rochester\O&M\FIELD FORM

FIELD DATA SHEET

CLIENT NAME: CITY OF ROCHESTER
PROJECT ID: CRC
PROJECT NAME: MN BIO BUSINESS CENTER

DATE: 12/17/09
RECORDED BY: JEG

2009 SYSTEM STARTUP INFORMATION
Startup Date: 6/29/2009 MS Discharge Totalizer: 68 Sump Discharge Totalizer: 200

NOTES - **LEAVE VACUUM RELIEF VALVE SELECTOR SWITCH IN OFF POSITION**
LEAVE AIR STRIPPER SELECTOR SWITCHES IN AUTO POSITION

CURRENT OPERATING WELL:
DPE WELL BLEED VALVE % OPEN: —
DPE PUMP BLEED VALVE % OPEN: —

ANALOG PANEL READINGS
DPE PUMP AIR FLOW (SCFM): 62.1
DPE WELL VACUUM (IN. HG): 18.70
DPE PUMP INLET VACUUM (IN. HG): 19.53
DPE PUMP OUTLET PRESSURE (PSI): 0
DPE PUMP OUTLET TEMP (DEG. F): 247
MS PUMP WATER FLOW (GPM): —

TOTAL PANEL READINGS
DPE VACUUM PUMP (HRS): 2960
MS PUMP (HRS): 175
MS VACUUM VALVE (HRS): 49
AIR STRIPPER BLOWER (HRS): 951
AIR STRIPPER PUMP (HRS): 78
DPE AIR FLOW (SCF): 6218000
MS PUMP WATER FLOW (GAL): 89800
SUMP PUMP WATER FLOW (GAL): 330

FIELD MEASUREMENTS
DPE WELL CASING VACUUM (MM HG): 18.3
DPE WELL HEAD (DROP TUBE) VACUUM (IN. HG): ~155"
PRE-MANIFOLD VACUUM (IN. HG): 18.9
DPE WELL (PRE-MS) VACUUM (IN.HG): ~~19.0~~ 18.9
POST-MS VACUUM (IN. HG): 19.0
DPE PUMP AIR FLOW (SCFM): 140
DPE EXHAUST PID CONC. (PPM):
DPE PUMP OUTLET PRESSURE (IN. H2O)): 0
DPE PUMP OUTLET TEMP (DEG. F): 248

MS PUMP WATER FLOWRATE (WHILE PUMPING) (GPM): 10.3
MS PUMP WATER PRESSURE (WHILE PUMPING) (PSI): 30.8
MS PUMP FLOW TOTALIZER READING (GAL): 92293

AS EXHAUST PRESSURE (IN. H20): 11
AS DISCHARGE PUMP PRESSURE (WHILE PUMPING) (PSI): ~~30~~ 30
AS BLOWER PRESSURE (IN. H20): 18
AS EXHAUST PID (PPM): 71.0

ELEVATOR DRAIN TILE SUMP FLOW TOTALIZER (GAL):

WATER LEVEL MEASUREMENTS

	Clean to Dirty Ranking	Well Depth below TOC (FT)	Depth to Water below TOC (FT)	
MW-14	3	17.5	11.66	
MW-15	4	18	14.25	
MW-16	10	18	14.17	
MW-17	7	25	13.04	
MW-18	6	60	13.85	
MW-19	1	20	13.69	
MW-20	8	16.7	12.31	
DPE-1	15	21.9	dry 21.9	15.13
DPE-2	13	20.5	~~20.4~~	15.69
DPE-3	14	17.1	dry 17.2	15.28
DPE-4	12	19.3	dry 19.3	15.44
DPE-5	9	18.1	- dry 18.1	
DPE-6	5	19.5	- dry 19.8	14.84
DPE-7	2	22.2	- dry 22.4	16.03
DPE-8	11	17.5	- dry 17.9	15.31
Sump	1	7.74	6.48	B

WELL CASING VACUUMS		PID READINGS		
DPE-1 171	~0.03	DPE-1 4000	0.8	11.8
DPE-2 ~230	0.03	DPE-2 ~~4000~~ 6	0.9	
DPE-3 ~120	ND	DPE-3 57.5	0.6	
DPE-4 ~100	ND	DPE-4 4000	2.3	
DPE-5 ~91	ND	DPE-5 850	0.6	
DPE-6 ~155	ND	DPE-6 680	0.9	
DPE-7 ~70	ND	DPE-7 490	0.6	
DPE-8 ~80	ND	DPE-8 559	0.9	

(New / old)

SUMP ROOM PID: ND

BASEMENT PID READINGS: ND

AMBIENT ROOM TEMPERATURE
CURRENT: 85.9 MAX: 89.1

COMMENTS/MAINTENANCE:
Replaced screen
Clean Floats
Sampled

What TF

CAH sampling started @ 09:07 -2%
12:18 -1%

FIELD DATA SHEET

CLIENT NAME: CITY OF ROCHESTER
PROJECT ID: CRC
PROJECT NAME: MN BIO BUSINESS CENTER

Time &
DATE: 12/28/09
RECORDED BY: JEG

2009 SYSTEM STARTUP INFORMATION
Startup Date: 6/29/2009 MS Discharge Totalizer: 68 Sump Discharge Totalizer: 200

NOTES - **LEAVE VACUUM RELIEF VALVE SELECTOR SWITCH IN OFF POSITION**
LEAVE AIR STRIPPER SELECTOR SWITCHES IN AUTO POSITION

CURRENT OPERATING WELL:
DPE WELL BLEED VALVE % OPEN:
DPE PUMP BLEED VALVE % OPEN:

ANALOG PANEL READINGS
DPE PUMP AIR FLOW (SCFM): 60.7
DPE WELL VACUUM (IN. HG): 17.21
DPE PUMP INLET VACUUM (IN. HG): 20.31
DPE PUMP OUTLET PRESSURE (PSI): ND
DPE PUMP OUTLET TEMP (DEG. F): 266
MS PUMP WATER FLOW (GPM): —

TOTAL PANEL READINGS
DPE VACUUM PUMP (HRS): 3226
MS PUMP (HRS): 187
MS VACUUM VALVE (HRS): 49
AIR STRIPPER BLOWER (HRS): 1032
AIR STRIPPER PUMP (HRS): 84
DPE AIR FLOW (SCF): 7333000
MS PUMP WATER FLOW (GAL): 97028
SUMP PUMP WATER FLOW (GAL): 330

FIELD MEASUREMENTS
DPE WELL CASING VACUUM (~~MM HG~~): 122" H2O
DPE WELL HEAD (DROP TUBE) VACUUM (IN. HG): —
PRE-MANIFOLD VACUUM (IN. HG): 17.2
DPE WELL (PRE-MS) VACUUM (IN.HG): 17.2
POST-MS VACUUM (IN. HG): 17.2
DPE PUMP AIR FLOW (SCFM): 60
DPE EXHAUST PID CONC. (PPM): ~~200~~
DPE PUMP OUTLET PRESSURE (IN. H2O)): ND
DPE PUMP OUTLET TEMP (DEG. F): 270

MS PUMP WATER FLOWRATE (WHILE PUMPING) (GPM): 11
MS PUMP WATER PRESSURE (WHILE PUMPING) (PSI): —
MS PUMP FLOW TOTALIZER READING (GAL): 99694

AS EXHAUST PRESSURE (IN. H20): 11
AS DISCHARGE PUMP PRESSURE (WHILE PUMPING) (PSI): —
AS BLOWER PRESSURE (IN. H20): 17
AS EXHAUST PID (PPM): 768

ELEVATOR DRAIN TILE SUMP FLOW TOTALIZER (GAL): —

WATER LEVEL MEASUREMENTS

	Clean to Dirty Ranking	Well Depth below TOC (FT)	Depth to Water below TOC (FT)
MW-14	3	17.5	
MW-15	4	18	
MW-16	10	18	
MW-17	7	25	
MW-18	6	60	
MW-19	1	20	
MW-20	8	16.7	
DPE-1	15	21.9	
DPE-2	13	20.5	
DPE-3	14	17.1	
DPE-4	12	19.3	
DPE-5	9	18.1	
DPE-6	5	19.5	
DPE-7	2	22.2	
DPE-8	11	17.5	
Sump	1	7.74	

WELL CASING VACUUMS		PID READINGS	
DPE-1	75	DPE-1	1120
DPE-2	199	DPE-2	720
DPE-3	122	DPE-3	27.8
DPE-4	99	DPE-4	3.4
DPE-5	76	DPE-5	4000
DPE-6	108	DPE-6	901
DPE-7	68	DPE-7	905
DPE-8	64	DPE-8	595

SUMP ROOM PID: ND

BASEMENT PID READINGS: ND

AMBIENT ROOM TEMPERATURE
CURRENT: 72 MAX: 89

COMMENTS/MAINTENANCE:
change screen
clean floats

FIELD DATA SHEET

CLIENT NAME: CITY OF ROCHESTER
PROJECT ID: CRC
PROJECT NAME: MN BIO BUSINESS CENTER

DATE: 1/14/10
RECORDED BY:

2009 SYSTEM STARTUP INFORMATION
Startup Date: 6/29/2009 MS Discharge Totalizer: 68 Sump Discharge Totalizer: 200

NOTES - LEAVE VACUUM RELIEF VALVE SELECTOR SWITCH IN OFF POSITION
LEAVE AIR STRIPPER SELECTOR SWITCHES IN AUTO POSITION

CURRENT OPERATING WELL: #5
DPE WELL BLEED VALVE % OPEN: X
DPE PUMP BLEED VALVE % OPEN:

ANALOG PANEL READINGS
DPE PUMP AIR FLOW (SCFM): 97.0
DPE WELL VACUUM (IN. HG): 14.46
DPE PUMP INLET VACUUM (IN. HG): 15.45
DPE PUMP OUTLET PRESSURE (PSI): 0
DPE PUMP OUTLET TEMP (DEG. F): 181.6
MS PUMP WATER FLOW (GPM):

TOTAL PANEL READINGS
DPE VACUUM PUMP (HRS): 3566
MS PUMP (HRS): 202
MS VACUUM VALVE (HRS): 49
AIR STRIPPER BLOWER (HRS): 1133
AIR STRIPPER PUMP (HRS): 92
DPE AIR FLOW (SCF): 8769000
MS PUMP WATER FLOW (GAL): 106024
SUMP PUMP WATER FLOW (GAL): 330

CAN start -28" Hg
11:00 -9 Hg
15:00 -6 Hg
end 15:23 -4 Hg

FIELD MEASUREMENTS
DPE WELL CASING VACUUM (MM HG): #5 90" @ well head
DPE WELL HEAD (DROP TUBE) VACUUM (IN. HG): 14.9
PRE-MANIFOLD VACUUM (IN. HG): 14.9
DPE WELL (PRE-MS) VACUUM (IN.HG):
POST-MS VACUUM (IN. HG): 14.9
DPE PUMP AIR FLOW (SCFM): 100
DPE EXHAUST PID CONC. (PPM): - RUNNING CAN
DPE PUMP OUTLET PRESSURE (IN. H2O)): ND
DPE PUMP OUTLET TEMP (DEG. F): 156

MS PUMP WATER FLOWRATE (WHILE PUMPING) (GPM): 10.7
MS PUMP WATER PRESSURE (WHILE PUMPING) (PSI): 36
MS PUMP FLOW TOTALIZER READING (GAL): 10784

AS EXHAUST PRESSURE (IN. H20): 10
AS DISCHARGE PUMP PRESSURE (WHILE PUMPING) (PSI): 24
AS BLOWER PRESSURE (IN. H20): 17
AS EXHAUST PID (PPM): ND

ELEVATOR DRAIN TILE SUMP FLOW TOTALIZER (GAL):

Start 09:23 #5

WATER LEVEL MEASUREMENTS

	Clean to Dirty Ranking	Well Depth below TOC (FT)		Depth to Water below TOC (FT)
MW-14	3	17.5		12.14
MW-15	4	18	X	14.33
MW-16	10	18	X	12.57
MW-17	7	25	X	13.22
MW-18	6	60	X	13.96
MW-19	1	20	X	13.78
MW-20	8	16.7	X	12.34
DPE-1	15	21.9	15.53	21.0
DPE-2	13	20.5	16.04	20.15
DPE-3	14	17.1	16.52	17.1
DPE-4	12	19.3	16.08	19.6
DPE-5	9	18.1	15.00	Dry 19.2
DPE-6	5	19.5	15.14	Dry 19.8
DPE-7	2	22.2	16.26	Dry 22.1
DPE-8	11	17.5	16.58	17.75
Sump	1	7.74	6.46	X

	WELL CASING VACUUMS	PID READINGS	
DPE-1	~~200~~ 51	-0.058	DPE-1
DPE-2	174	0.000	DPE-2
DPE-3	145	-0.001	DPE-3
DPE-4	100	-0.002	DPE-4
DPE-5	98	0.001	DPE-5 running can
DPE-6	120	-0.048	DPE-6
DPE-7	54	-0.001	DPE-7
DPE-8	89	-0.005	DPE-8

SUMP ROOM PID: ND

BASEMENT PID READINGS: ND

AMBIENT ROOM TEMPERATURE
CURRENT: 64.9 MAX: 89.1

COMMENTS/MAINTENANCE:
scraped inside of housing

Off - when arrived cleaned screen -

Post screen build up Stu # sediment retro post screen

FIELD DATA SHEET

CLIENT NAME: CITY OF ROCHESTER
PROJECT ID: CRC
PROJECT NAME: MN BIO BUSINESS CENTER

DATE: 1/27/10
RECORDED BY:

2009 SYSTEM STARTUP INFORMATION
Startup Date: 6/29/2009 MS Discharge Totalizer: 68 Sump Discharge Totalizer: 200

NOTES - **LEAVE VACUUM RELIEF VALVE SELECTOR SWITCH IN OFF POSITION**
LEAVE AIR STRIPPER SELECTOR SWITCHES IN AUTO POSITION

CURRENT OPERATING WELL: 7
DPE WELL BLEED VALVE % OPEN:
DPE PUMP BLEED VALVE % OPEN: X

ANALOG PANEL READINGS
DPE PUMP AIR FLOW (SCFM): 88.4
DPE WELL VACUUM (IN. HG): 16.87
DPE PUMP INLET VACUUM (IN. HG): 17.68
DPE PUMP OUTLET PRESSURE (PSI): 0
DPE PUMP OUTLET TEMP (DEG. F): 156
MS PUMP WATER FLOW (GPM): 12.85

TOTAL PANEL READINGS
DPE VACUUM PUMP (HRS): 3789
MS PUMP (HRS): 210
MS VACUUM VALVE (HRS): 49
AIR STRIPPER BLOWER (HRS): 1188
AIR STRIPPER PUMP (HRS): 96
DPE AIR FLOW (SCF): 9633000
MS PUMP WATER FLOW (GAL): 111633
SUMP PUMP WATER FLOW (GAL): 330

FIELD MEASUREMENTS
DPE WELL CASING VACUUM (MM HG): 60"
DPE WELL HEAD (DROP TUBE) VACUUM (IN. HG):
PRE-MANIFOLD VACUUM (IN. HG): 16
DPE WELL (PRE-MS) VACUUM (IN.HG): 16
POST-MS VACUUM (IN. HG): 18
DPE PUMP AIR FLOW (SCFM): 75
DPE EXHAUST PID CONC. (PPM):
DPE PUMP OUTLET PRESSURE (IN. H2O)): 0
DPE PUMP OUTLET TEMP (DEG. F): 165

MS PUMP WATER FLOWRATE (WHILE PUMPING) (GPM): 12.2
MS PUMP WATER PRESSURE (WHILE PUMPING) (PSI): 16
MS PUMP FLOW TOTALIZER READING (GAL): 114661

AS EXHAUST PRESSURE (IN. H20): 11
AS DISCHARGE PUMP PRESSURE (WHILE PUMPING) (PSI): 24
AS BLOWER PRESSURE (IN. H20): 10
AS EXHAUST PID (PPM):

ELEVATOR DRAIN TILE SUMP FLOW TOTALIZER (GAL):

WATER LEVEL MEASUREMENTS

	Clean to Dirty Ranking	Well Depth below TOC (FT)	Depth to Water below TOC (FT)
MW-14	3	17.5	
MW-15	4	18	
MW-16	10	18	
MW-17	7	25	
MW-18	6	60	
MW-19	1	20	
MW-20	8	16.7	
DPE-1	15	21.9	
DPE-2	13	20.5	
DPE-3	14	17.1	
DPE-4	12	19.3	
DPE-5	9	18.1	
DPE-6	5	19.5	
DPE-7	2	22.2	
DPE-8	11	17.5	
Sump	1	7.74	

WELL CASING VACUUMS	PID READINGS
DPE-1	DPE-1
DPE-2	DPE-2
DPE-3	DPE-3
DPE-4	DPE-4
DPE-5	DPE-5
DPE-6	DPE-6
DPE-7	DPE-7
DPE-8	DPE-8

SUMP ROOM PID:

BASEMENT PID READINGS:

AMBIENT ROOM TEMPERATURE
CURRENT: MAX:

COMMENTS/MAINTENANCE:

System off
CAME TO
Repair screen

MAINTENANCE CHECKLIST

MN Bio Business Center
221 1st Avenue SW
Rochester, MN

Date: 12/7/09

Field Represenative: JEG JDS

	Check Box	OBSERVATIONS AND/OR DESCRIPTION OF MAINTENANCE PERFORMED
DPE Pump Maintenance		
- Inspect Hoses, Piping and Fittings for Oil Leaks - MONTHLY		
- Check Oil Level (level should show at middle of site glass) - MONTHLY		
- Change Oil - EVERY 5,000 OPERATING HOURS		
- Inspect and Clean Pump Inlet Screen - EACH SITE VISIT	✓	
Moisture Separator Maintenance		
- Clean Floats - MONTHLY		
- Check/Remove Sediment - MONTHLY		
- Replace Filter - If Pressure Drop Occurs		
- Transfer Pump (Moyno 34401 1 HP) - Inspect Hoses, Piping and Fittings for Water Leaks - MONTHLY		
Air Stripper Maintenance		
- Clean Air Stripper - ANNUALLY OR AS NEEDED		
- Discharge Pump (Meyers CT10 1 HP) - Inspect Hoses, Piping and Fittings for Water Leaks - MONTHLY		
- Blower (16N4 TBNA 3 HP) - Inspect Hoses, Piping and Fittings for Leaks - MONTHLY		
Solonoid Valve Maintenance		
- Inspect - MONTHLY		
- Clean - AS NEEDED	✓	Reassembled Sol Valves & Raised Manifold 1-foot
- Rebuild - AS NEEDED		

MAINTENANCE CHECKLIST

MN Bio Business Center
221 1st Avenue SW
Rochester, MN

Date: 12/4/09

Field Represenative: JEG

	Check Box	OBSERVATIONS AND/OR DESCRIPTION OF MAINTENANCE PERFORMED
DPE Pump Maintenance		
- Inspect Hoses, Piping and Fittings for Oil Leaks - MONTHLY		
- Check Oil Level (level should show at middle of site glass) - MONTHLY		
- Change Oil - EVERY 5,000 OPERATING HOURS		
- Inspect and Clean Pump Inlet Screen - EACH SITE VISIT		
Moisture Separator Maintenance		
- Clean Floats - MONTHLY		
- Check/Remove Sediment - MONTHLY		
- Replace Filter - If Pressure Drop Occurs		
- Transfer Pump (Moyno 34401 1 HP) - Inspect Hoses, Piping and Fittings for Water Leaks - MONTHLY		
Air Stripper Maintenance		
- Clean Air Stripper - ANNUALLY OR AS NEEDED		
- Discharge Pump (Meyers CT10 1 HP) - Inspect Hoses, Piping and Fittings for Water Leaks - MONTHLY		
- Blower (16N4 TBNA 3 HP) - Inspect Hoses, Piping and Fittings for Leaks - MONTHLY		
Solonoid Valve Maintenance		
- Inspect - MONTHLY		
- Clean - AS NEEDED	✓	Cleaned & Applied Pelseal corrosion Resistant Coating
- Rebuild - AS NEEDED		

MAINTENANCE CHECKLIST

MN Bio Business Center
221 1st Avenue SW
Rochester, MN

620 pm
Restart Sys

DPE-1
FT1 = 57.55cfm
VT1 = 19.34
VT2 = 20.14
VI = 19.6

Date: 12/27/09

Field Represenative: JDS

	Check Box	OBSERVATIONS AND/OR DESCRIPTION OF MAINTENANCE PERFORMED
DPE Pump Maintenance		
- Inspect Hoses, Piping and Fittings for Oil Leaks - MONTHLY		List of
- Check Oil Level (level should show at middle of site glass) - MONTHLY		Alarms on Panel
- Change Oil - EVERY 5,000 OPERATING HOURS		
- Inspect and Clean Pump Inlet Screen - EACH SITE VISIT	JDS	E-Stop
		LAH: MS Hi Level
Moisture Separator Maintenance		LAH: Air Stripper Hi Level
- Clean Floats - MONTHLY		FAL: Air Stripper Low Air Flow
- Check/Remove Sediment - MONTHLY		VAH1: Well Hi Vac
- Replace Filter - If Pressure Drop Occurs		VAL1: Well Low Vac
- Transfer Pump (Moyno 34401 1 HP) - Inspect Hoses, Piping and Fittings for Water Leaks - MONTHLY		VAH2: DPE Pump Hi Vac
		VAL2: DPE Pump Low Vac
		PAH: DPE Pump Hi Outlet Press
Air Stripper Maintenance		TAH: DPE Pump High Outlet Temp
- Clean Air Stripper - ANNUALLY OR AS NEEDED		LAH: Floor Sump Hi Level
- Discharge Pump (Meyers CT10 1 HP) - Inspect Hoses, Piping and Fittings for Water Leaks - MONTHLY		DPE Vacuum Pump Hi Motor Temp
		Leak Detection
- Blower (16N4 TBNA 3 HP) - Inspect Hoses, Piping and Fittings for Leaks - MONTHLY		MS Pump Motor Fault
		DPE Vacuum Pump Motor Fault
		MS Vacuum Valve Fault
Solonoid Valve Maintenance		AS Blower Motor Hi Temp
- Inspect - MONTHLY		AS Blower Motor Fault
- Clean - AS NEEDED		AS Pump Motor Fault
- Rebuild - AS NEEDED		Surge Suppressor Fault

MAINTENANCE CHECKLIST

MN Bio Business Center
221 1st Avenue SW
Rochester, MN

Date: 11/16/09 & 11/17/09

Field Represenative: JDS & JEG

	Check Box	OBSERVATIONS AND/OR DESCRIPTION OF MAINTENANCE PERFORMED
DPE Pump Maintenance		
- Inspect Hoses, Piping and Fittings for Oil Leaks - MONTHLY	X	
- Check Oil Level (level should show at middle of site glass) - MONTHLY	X	
- Change Oil - EVERY 5,000 OPERATING HOURS		
- Inspect and Clean Pump Inlet Screen - EACH SITE VISIT	X	
Moisture Separator Maintenance		
- Clean Floats - MONTHLY	X	
- Check/Remove Sediment - MONTHLY	X	
- Replace Filter - If Pressure Drop Occurs	X	Reinstalled 1 µ filter
- Transfer Pump (Moyno 34401 1 HP) - Inspect Hoses, Piping and Fittings for Water Leaks - MONTHLY	X	
Air Stripper Maintenance		
- Clean Air Stripper - ANNUALLY OR AS NEEDED		
- Discharge Pump (Meyers CT10 1 HP) - Inspect Hoses, Piping and Fittings for Water Leaks - MONTHLY	X	
- Blower (16N4 TBNA 3 HP) - Inspect Hoses, Piping and Fittings for Leaks - MONTHLY	X	
Solonoid Valve Maintenance		
- Inspect - MONTHLY	X	CORRODED
- Clean - AS NEEDED		
- Rebuild - AS NEEDED		

MAINTENANCE CHECKLIST

MN Bio Business Center
221 1st Avenue SW
Rochester, MN

Date: 10/27/09

Field Represenative:

	Check Box	OBSERVATIONS AND/OR DESCRIPTION OF MAINTENANCE PERFORMED
DPE Pump Maintenance		
- Inspect Hoses, Piping and Fittings for Oil Leaks - MONTHLY		
- Check Oil Level (level should show at middle of site glass) - MONTHLY		
- Change Oil - EVERY 5,000 OPERATING HOURS		
- Inspect and Clean Pump Inlet Screen - EACH SITE VISIT	JEG	
Moisture Separator Maintenance		
- Clean Floats - MONTHLY	JEG	
- Check/Remove Sediment - MONTHLY		
- Replace Filter - If Pressure Drop Occurs		
- Transfer Pump (Moyno 34401 1 HP) - Inspect Hoses, Piping and Fittings for Water Leaks - MONTHLY		
Air Stripper Maintenance		
- Clean Air Stripper - ANNUALLY OR AS NEEDED		
- Discharge Pump (Meyers CT10 1 HP) - Inspect Hoses, Piping and Fittings for Water Leaks - MONTHLY		
- Blower (16N4 TBNA 3 HP) - Inspect Hoses, Piping and Fittings for Leaks - MONTHLY		
Solonoid Valve Maintenance		
- Inspect - MONTHLY		
- Clean - AS NEEDED DPE-1	JEG	
- Rebuild - AS NEEDED		

Field Information Data Sheet

Landmark Environmental, LLC

Client Name: _____

Project Name: _____ Project Number: _____

Location: _____ Date: _____

Station: _____ Sample time: _____

Casing diameter:		Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:		DPE-1	18.18	2595	7.52	173	4.98	11:50
Static water level:		DPE-2	18.15	4523	6.86	114	5.43	0940
Water depth[1]:		DPE-3	17.43	4442	7.10	208	3.32	1015
Well volume (gal):		DPE-4	17.49	4057	7.16	205	5.20	1050
Purge method:		DPE-5	18.02	2921	7.58	204	4.15	11:00
Sample Method:		DPE-6	18.70	1400	7.81	249	6.30	11:30
Start time:		DPE-7	19.01	2095	7.97	193	5.01	11:50
Stop time:		Odor:	16.78	3604	7.20	226	5.19	12:30
Duration (min.):								
Rate, gpm:		Purge appearance:						
Volume purged:		Sample appearance:						
Duplicate collected?		Comments:						
Sampled by:								
Others present:				Well Condition				
Analysis:	VOC Semi-volatile general COD TOC nutrient cyanide oil,grease whirl pak total metal filtered metal 500 ml filter in-line filter others:							
MW:gw monitoring well WS:water supply well SW:surface water SE:sediment other:								

2 11/16
11/17/05
(3)
(3)
3

[1] Measurements are referenced from top of riser pipe, unless otherwise indicated.

Field Information Data Sheet

Landmark Environmental, LLC

Client Name: CRC

Project Name: _____ Project Number: _____

Location: _____ Date: 11/16/09

Station: MW16 Sample time: 19:20

Casing diameter:	2	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	19							
Static water level:	11.44	3	19.82	4048	6.91	170	3.67	
Water depth[1]:	6.56	4						
Well volume (gal):	1	5						
Purge method:	Whale							
Sample Method:	Bailer							
Start time:	~~/~~							
Stop time:	~~/~~							
Duration (min.):	~~/~~	Odor:						
Rate, gpm:	~~/~~	Purge appearance:	Red					
Volume purged:	~~/~~	Sample appearance:	Lt Brn					
Duplicate collected?	~~/~~	Comments: 1 gallon dry						
Sampled by:	JCL							
Others present:		Well Condition						
Analysis:	~~VOC~~ Semi-volatile general COD TOC nutrient cyanide oil,grease whirl pak total metal filtered metal 500 ml filter in-line filter others:							

MW:gw monitoring well WS:water supply well SW:surface water SE:sediment other:

[1] Measurements are referenced from top of riser pipe, unless otherwise indicated.

Lowy

Field Information Data Sheet

Landmark Environmental, LLC

Client Name: CRC

Project Name: _____ Project Number: _____

Location: MW20 Date: 11/16/09

Station: _____ Sample time: 1850

Casing diameter:	2	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	16.7							
Static water level:	11.02	2.7	17.31	376	6.80	28	3.85	
Water depth[1]:	5.68	3.6						
Well volume (gal):	.7	4.5						
Purge method:	Whale							
Sample Method:	Bailer							
Start time:	/							
Stop time:	/							
Duration (min.):	/	Odor:						
Rate, gpm:	/	Purge appearance:	Brown					
Volume purged:	/	Sample appearance:						
Duplicate collected?	/	Comments: 2 Gallon Bag						
Sampled by:	JSC							
Others present:		Well Condition						
Analysis:	VOC Semi-volatile general COD TOC nutrient cyanide oil,grease whirl pak total metal filtered metal 500 ml filter in-line filter others:							
MW:gw monitoring well WS:water supply well SW:surface water SE:sediment other:								

[1] Measurements are referenced from top of riser pipe, unless otherwise indicated.

Field Information Data Sheet

Landmark Environmental, LLC

Client Name: CRC

Project Name: _____ Project Number: _____

Location: MW12 Date: 11/16/06

Station: _____ Sample time: 1810

Casing diameter:	2	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	25							
Static water level:	12.76	6.9	17.97	1677	7.36	70	2.03	
Water depth[1]:	12.24	9.2	17.84	1784	7.38	23	1.30	
Well volume (gal):	2-3	11.5	17.62	1761	7.34	29	1.62	
Purge method:	Whale							
Sample Method:	Bailer							
Start time:	—							
Stop time:	—							
Duration (min.):	—	Odor:						
Rate, gpm:	—	Purge appearance:	cloudy					
Volume purged:	—	Sample appearance:						
Duplicate collected?	NO	Comments:						
Sampled by:	JEG							
Others present:		Well Condition						
Analysis:	VOC Semi-volatile general COD TOC nutrient cyanide oil,grease whirl pak total metal filtered metal 500 ml filter in-line filter others:							

MW:gw monitoring well WS:water supply well SW:surface water SE:sediment other:

[1] Measurements are referenced from top of riser pipe, unless otherwise indicated.

Field Information Data Sheet

Landmark Environmental, LLC

Client Name: CRC

Project Name: _____ Project Number: _____

Location: _____ Date: 11/16/09

Station: MW18 Sample time: 1545

Casing diameter:	2	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	60							
Static water level:	13.83	22.5	16.75	2221	6.66	-17.5	1.44	
Water depth[1]:	46.17	30	16.46	2574	6.64	50.5	0.92	
Well volume (gal):	7.5	37.5	16.46	2580	6.60	54.7	1.09	
Purge method:	Whale							
Sample Method:	Bailer							
Start time:	/							
Stop time:	/							
Duration (min.):	/	Odor:						
Rate, gpm:	/	Purge appearance:		Red Brown				
Volume purged:	/	Sample appearance:		Clear				
Duplicate collected?	NO	Comments:	Strong odor - Not observed PID Checked well head - NO Readings					
Sampled by:	JCL							
Others present:				Well Condition				
Analysis:	(VOC) Semi-volatile general COD TOC nutrient cyanide oil,grease whirl pak total metal filtered metal 500 ml filter in-line filter others:							
MW:gw monitoring well WS:water supply well SW:surface water SE:sediment other:								

[1] Measurements are referenced from top of riser pipe, unless otherwise indicated.

Field Information Data Sheet

Landmark Environmental, LLC

Client Name: CRC

Project Name: _____ Project Number: _____

Location: MW 15 Date: 11/16/09

Station: _____ Sample time: 1700

Casing diameter:	2	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	18							
Static water level:	13.78	2.1	19.6	1155	7.35	200	4.53	
Water depth[1]:	4.22	2.8						
Well volume (gal):	0.7	3.5						
Purge method:	bladder							
Sample Method:	Bailer							
Start time:	—							
Stop time:	—							
Duration (min.):	—	Odor:	no					
Rate, gpm:	—	Purge appearance:	Dry 2 gallons cloudy					
Volume purged:	—	Sample appearance:						
Duplicate collected?	NO	Comments: Dry 2 gallons						
Sampled by:	JEC							
Others present:		Well Condition						
Analysis:	VOC Semi-volatile general COD TOC nutrient cyanide oil,grease whirl pak total metal filtered metal 500 ml filter in-line filter others:							

MW:gw monitoring well WS:water supply well SW:surface water SE:sediment other:

[1] Measurements are referenced from top of riser pipe, unless otherwise indicated.

Field Information Data Sheet

Landmark Environmental, LLC

Client Name: City of Rochester

Project Name: MW14 Project Number:

Location: MW14 Date: 11/16/09

Station: Sample time: 1540

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	17.5							
Static water level:	11.87	2.7	19.32	1718	6.58	77.6	4.07	
Water depth[1]:	5.63	3.6	19.25	1743	6.69	57.7	3.65	
Well volume (gal):	0.9	4.5	19.22	1747	6.79	47.5	3.48	
Purge method:	Wave							
Sample Method:	Bailer							
Start time:	—							
Stop time:	—							
Duration (min.):	—	Odor:						
Rate, gpm:	—	Purge appearance:	cloudy					
Volume purged:	4.5	Sample appearance:	cloudy					
Duplicate collected?	No	Comments:						
Sampled by:	JCG							
Others present:		Well Condition						
Analysis:	(VOC) Semi-volatile general COD TOC nutrient cyanide oil,grease whirl pak total metal filtered metal 500 ml filter in-line filter others:							

MW:gw monitoring well WS:water supply well SW:surface water SE:sediment other:

[1] Measurements are referenced from top of riser pipe, unless otherwise indicated.

Field Information Data Sheet

Landmark Environmental, LLC

Client Name: CRC

Project Name: MW19 Project Number:

Location: MW19 Date: 11/16/09

Station: Sample time: 16:30

Casing diameter:	2	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	20							
Static water level:	12.85	4.2	15.96	3482	6.13	226	3.03	
Water depth[1]:	7.15	5.6						
Well volume (gal):	1.4	7						
Purge method:	Whale							
Sample Method:	Bailer							
Start time:	—							
Stop time:	—							
Duration (min.):	—	Odor:						
Rate, gpm:	—	Purge appearance:	Cloudy					
Volume purged:	2L	Sample appearance:	Clear					
Duplicate collected?	NO	Comments: Dry two Gallons						
Sampled by:	JEG							
Others present:		Well Condition						
Analysis:	(VOC) Semi-volatile general COD TOC nutrient cyanide oil,grease whirl pak total metal filtered metal 500 ml filter in-line filter others:							

MW:gw monitoring well WS:water supply well SW:surface water SE:sediment other:

[1] Measurements are referenced from top of riser pipe, unless otherwise indicated.

Attachment B

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

November 04, 2009

Mr. Jason Skramstad
Landmark Environmental
2042 W. 98th. St.
Minneapolis, MN 55431

RE: Project: CITY OF ROCHESTER
Pace Project No.: 10115797

Dear Mr. Skramstad:
Enclosed are the analytical results for sample(s) received by the laboratory on October 28, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carolynne Trout

Carolynne Trout

carolynne.trout@pacelabs.com
Project Manager

Enclosures

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Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: CITY OF ROCHESTER
Pace Project No.: 10115797

Minnesota Certification IDs

1700 Elm Street SE, Suite 200 Minneapolis, MN 55414
Alaska Certification #: UST-078
Washington Certification #: C754
Tennessee Certification #: 02818
Pennsylvania Certification #: 68-00563
Oregon Certification #: MN200001
North Dakota Certification #: R-036
North Carolina Certification #: 530
New York Certification #: 11647
New Jersey Certification #: MN-002
Montana Certification #: MT CERT0092
Minnesota Certification #: 027-053-137
Maine Certification #: 2007029
Louisiana Certification #: LA080009
Louisiana Certification #: 03086
Kansas Certification #: E-10167
Iowa Certification #: 368
Illinois Certification #: 200011
Florida/NELAP Certification #: E87605
California Certification #: 01155CA
Arizona Certification #: AZ-0014
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: CITY OF ROCHESTER
Pace Project No.: 10115797

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10115797001	**MS-SOLID**	Solid	10/27/09 12:00	10/28/09 14:25

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SAMPLE ANALYTE COUNT

Project: CITY OF ROCHESTER
Pace Project No.: 10115797

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10115797001	**MS-SOLID**	EPA 8260	CNC	15

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ANALYTICAL RESULTS

Project: CITY OF ROCHESTER
Pace Project No.: 10115797

Sample: MS-SOLID **Lab ID: 10115797001** Collected: 10/27/09 12:00 Received: 10/28/09 14:25 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV TCLP	Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 10/30/09 10:39							
Benzene	ND	ug/L	50.0	1		10/30/09 19:47	71-43-2	
2-Butanone (MEK)	ND	ug/L	200	1		10/30/09 19:47	78-93-3	
Carbon tetrachloride	ND	ug/L	50.0	1		10/30/09 19:47	56-23-5	
Chlorobenzene	ND	ug/L	50.0	1		10/30/09 19:47	108-90-7	
Chloroform	ND	ug/L	50.0	1		10/30/09 19:47	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	50.0	1		10/30/09 19:47	106-46-7	
1,2-Dichloroethane	ND	ug/L	50.0	1		10/30/09 19:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	1		10/30/09 19:47	75-35-4	
Tetrachloroethene	**185**	ug/L	50.0	1		10/30/09 19:47	127-18-4	
Trichloroethene	ND	ug/L	50.0	1		10/30/09 19:47	79-01-6	
Vinyl chloride	ND	ug/L	20.0	1		10/30/09 19:47	75-01-4	
1,2-Dichloroethane-d4 (S)	120	%	63-137	1		10/30/09 19:47	17060-07-0	
Dibromofluoromethane (S)	108	%	66-134	1		10/30/09 19:47	1868-53-7	
4-Bromofluorobenzene (S)	97	%	67-133	1		10/30/09 19:47	460-00-4	
Toluene-d8 (S)	99	%	67-133	1		10/30/09 19:47	2037-26-5	

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QUALITY CONTROL DATA

Project: CITY OF ROCHESTER
Pace Project No.: 10115797

QC Batch: MSV/13336
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV TCLP
Associated Lab Samples: 10115797001

METHOD BLANK: 705246 Matrix: Water
Associated Lab Samples: 10115797001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	50.0	10/30/09 13:50	
1,2-Dichloroethane	ug/L	ND	50.0	10/30/09 13:50	
1,4-Dichlorobenzene	ug/L	ND	50.0	10/30/09 13:50	
2-Butanone (MEK)	ug/L	ND	200	10/30/09 13:50	
Benzene	ug/L	ND	50.0	10/30/09 13:50	
Carbon tetrachloride	ug/L	ND	50.0	10/30/09 13:50	
Chlorobenzene	ug/L	ND	50.0	10/30/09 13:50	
Chloroform	ug/L	ND	50.0	10/30/09 13:50	
Tetrachloroethene	ug/L	ND	50.0	10/30/09 13:50	
Trichloroethene	ug/L	ND	50.0	10/30/09 13:50	
Vinyl chloride	ug/L	ND	20.0	10/30/09 13:50	
1,2-Dichloroethane-d4 (S)	%	113	63-137	10/30/09 13:50	
4-Bromofluorobenzene (S)	%	97	67-133	10/30/09 13:50	
Dibromofluoromethane (S)	%	103	66-134	10/30/09 13:50	
Toluene-d8 (S)	%	100	67-133	10/30/09 13:50	

LABORATORY CONTROL SAMPLE: 705247

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	2500	2200	88	75-125	
1,2-Dichloroethane	ug/L	2500	2800	112	75-125	
1,4-Dichlorobenzene	ug/L	2500	2450	98	75-125	
2-Butanone (MEK)	ug/L	2500	1910	77	74-126	
Benzene	ug/L	2500	2380	95	75-125	
Carbon tetrachloride	ug/L	2500	3010	121	75-125	
Chlorobenzene	ug/L	2500	2480	99	75-125	
Chloroform	ug/L	2500	2720	109	75-125	
Tetrachloroethene	ug/L	2500	2410	96	75-125	
Trichloroethene	ug/L	2500	2460	98	75-125	
Vinyl chloride	ug/L	2500	2440	97	75-125	
1,2-Dichloroethane-d4 (S)	%			115	63-137	
4-Bromofluorobenzene (S)	%			97	67-133	
Dibromofluoromethane (S)	%			104	66-134	
Toluene-d8 (S)	%			99	67-133	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 705281 705282

Parameter	Units	10115797001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	2500	2500	2310	2270	92	91	66-125	2	30	

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QUALITY CONTROL DATA

Project: CITY OF ROCHESTER
Pace Project No.: 10115797

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 705281 705282

Parameter	Units	10115797001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	2500	2500	2770	2760	111	110	73-125	1	30	
1,4-Dichlorobenzene	ug/L	ND	2500	2500	2360	2420	95	97	75-125	3	30	
2-Butanone (MEK)	ug/L	ND	2500	2500	1880	2170	75	87	66-130	14	30	
Benzene	ug/L	ND	2500	2500	2400	2330	96	93	50-150	3	30	
Carbon tetrachloride	ug/L	ND	2500	2500	3130	3060	125	122	68-128	2	30	
Chlorobenzene	ug/L	ND	2500	2500	2440	2420	98	97	75-125	1	30	
Chloroform	ug/L	ND	2500	2500	2710	2680	108	107	75-125	1	30	
Tetrachloroethene	ug/L	185	2500	2500	2580	2580	96	96	50-150	0	30	
Trichloroethene	ug/L	ND	2500	2500	2430	2380	97	95	69-125	2	30	
Vinyl chloride	ug/L	ND	2500	2500	2530	2450	101	98	62-150	3	30	
1,2-Dichloroethane-d4 (S)	%						108	117	63-137			
4-Bromofluorobenzene (S)	%						94	100	67-133			
Dibromofluoromethane (S)	%						103	104	66-134			
Toluene-d8 (S)	%						100	100	67-133			

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QUALIFIERS

Project: CITY OF ROCHESTER
Pace Project No.: 10115797

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CITY OF ROCHESTER
Pace Project No.: 10115797

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10115797001	**MS-SOLID**	EPA 8260	MSV/13336		

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Pace Analytical™
www.pacelabs.com

17:00
12116922

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10115797

Page: of

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Landmark Environmental	Report To: Jason Skramstad	Attention: Jason Skramstad
Address: 2042 W. 98th Street	Copy To: Eric Gabrielson	Company Name: Landmark Environmental, LLC
Bloomington, MN 55431		Address: 2042 W. 98th St., Bloomington, MN 55431
Email To: jskramstad@landmarkenv.com	Purchase Order No.:	Pace Quote Reference:
Phone: 952-887-9601, ext 205 Fax: 952-887-9605	Project Name: City of Rochester	Pace Project Manager: Carolynne Trout
Requested Due Date/TAT: Normal	Project Number: CRC	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER_____

SITE LOCATION ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☐ WI ☐ OTHER____

Section D Required Client Information

SAMPLE ID
One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL WP
WIPE	AR
AIR	OT
OTHER	TS
TISSUE	

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G+GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: TCLP VOC	Pace Project Number / Lab I.D.
1	MS-SOLID	S	G	10/27/09	12:00														X	001
2																				
3																				
4																				
5																				
6																				
7																				
8																				
5																				
6																				
7																				
8																				

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
				10/28/09	1425

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
9.0	(Y) N	(Y) N	(Y) N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Eric Gabrielson

SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY)

10 of 11

Sample Condition Upon Receipt

Pace Analytical

Client Name: Landmark **Project #** 10115797

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Commercial ☐ Pace Other _____

Tracking #: _____

Optional: Proj. Due Date: Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____ Temp Blank: Yes ✓ No _____

Thermometer Used 80344042 or 179425 **Type of Ice:** Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 9.0 **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C **Comments:**

Date and initials of person examining contents: 10/28/09 SL

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☐Yes ☑No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☑No ☐N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: SL		
All containers needing acid/base preservation have been checked. Noncompliance are noted in 13.	☐Yes ☐No ☑N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ HCl
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	Samp #
Exceptions: VOA,Coliform, TOC, Oil and Grease, WI-DRO (water)	☐Yes ☐No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: CPM **Date:** 10/29/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR.

Pace Analytical Services, Inc. 1700 Elm Street SE, Suite 200, Minneapolis, MN 55414

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

December 02, 2009

Mr. Jason Skramstad
Landmark Environmental
2042 W. 98th. St.
Minneapolis, MN 55431

RE: Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

Dear Mr. Skramstad:
Enclosed are the analytical results for sample(s) received by the laboratory on November 18, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carolynne Trout

Carolynne Trout

carolynne.trout@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

Minnesota Certification IDs

1700 Elm Street SE, Suite 200 Minneapolis, MN 55414
Alaska Certification #: UST-078
Washington Certification #: C754
Tennessee Certification #: 02818
Pennsylvania Certification #: 68-00563
Oregon Certification #: MN200001
North Dakota Certification #: R-036
North Carolina Certification #: 530
New York Certification #: 11647
New Jersey Certification #: MN-002
Montana Certification #: MT CERT0092
Minnesota Certification #: 027-053-137
Maine Certification #: 2007029
Louisiana Certification #: LA080009
Louisiana Certification #: 03086
Kansas Certification #: E-10167
Iowa Certification #: 368
Illinois Certification #: 200011
Florida/NELAP Certification #: E87605
California Certification #: 01155CA
Arizona Certification #: AZ-0014
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10117287001	**AS-INFLUENT**	Water	11/16/09 10:10	11/18/09 14:25
10117287002	**AS-EFFLUENT**	Water	11/16/09 10:20	11/18/09 14:25
10117287003	**MW-14**	Water	11/16/09 15:40	11/18/09 14:25
10117287004	**MW-15**	Water	11/16/09 17:00	11/18/09 14:25
10117287005	**MW-16**	Water	11/16/09 19:20	11/18/09 14:25
10117287006	**MW-17**	Water	11/16/09 18:10	11/18/09 14:25
10117287007	**MW-18**	Water	11/16/09 15:45	11/18/09 14:25
10117287008	**MW-19**	Water	11/16/09 16:30	11/18/09 14:25
10117287009	**MW-20**	Water	11/16/09 18:50	11/18/09 14:25
10117287010	**DPE-1**	Water	11/16/09 19:50	11/18/09 14:25
10117287011	**DPE-2**	Water	11/17/09 09:40	11/18/09 14:25
10117287012	**DPE-3**	Water	11/17/09 10:15	11/18/09 14:25
10117287013	**DPE-4**	Water	11/17/09 10:50	11/18/09 14:25
10117287014	**DPE-5**	Water	11/17/09 11:00	11/18/09 14:25
10117287015	**DPE-6**	Water	11/17/09 11:30	11/18/09 14:25
10117287016	**DPE-7**	Water	11/17/09 11:50	11/18/09 14:25
10117287017	**DPE-8**	Water	11/17/09 12:30	11/18/09 14:25

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SAMPLE ANALYTE COUNT

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10117287001	**AS-INFLUENT**	EPA 624	DRE	82
10117287002	**AS-EFFLUENT**	EPA 624	DRE	82
10117287003	**MW-14**	EPA 8260	CNC	73
10117287004	**MW-15**	EPA 8260	CNC	73
10117287005	**MW-16**	EPA 8260	CNC	73
10117287006	**MW-17**	EPA 8260	CNC	73
10117287007	**MW-18**	EPA 8260	CNC	73
10117287008	**MW-19**	EPA 8260	CNC	73
10117287009	**MW-20**	EPA 8260	CNC	73
10117287010	**DPE-1**	EPA 8260	CNC	73
10117287011	**DPE-2**	EPA 8260	CNC	73
10117287012	**DPE-3**	EPA 8260	CNC	73
10117287013	**DPE-4**	EPA 8260	CNC	73
10117287014	**DPE-5**	EPA 8260	CNC	73
10117287015	**DPE-6**	EPA 8260	DRE	73
10117287016	**DPE-7**	EPA 8260	CNC	73
10117287017	**DPE-8**	EPA 8260	DRE	73

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

Sample: AS-INFLUENT **Lab ID: 10117287001** Collected: 11/16/09 10:10 Received: 11/18/09 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV	Analytical Method: EPA 624							
Acetone	ND	ug/L	10.0	1		11/24/09 19:14	67-64-1	
Acrolein	ND	ug/L	40.0	1		11/24/09 19:14	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1		11/24/09 19:14	107-13-1	
Allyl chloride	ND	ug/L	4.0	1		11/24/09 19:14	107-05-1	
Benzene	ND	ug/L	1.0	1		11/24/09 19:14	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/24/09 19:14	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/24/09 19:14	74-97-5	
Bromodichloromethane	ND	ug/L	4.0	1		11/24/09 19:14	75-27-4	
Bromoform	ND	ug/L	8.0	1		11/24/09 19:14	75-25-2	
Bromomethane	ND	ug/L	4.0	1		11/24/09 19:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		11/24/09 19:14	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		11/24/09 19:14	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/24/09 19:14	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		11/24/09 19:14	98-06-6	
Carbon disulfide	ND	ug/L	1.0	1		11/24/09 19:14	75-15-0	
Carbon tetrachloride	ND	ug/L	4.0	1		11/24/09 19:14	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/24/09 19:14	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/24/09 19:14	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		11/24/09 19:14	110-75-8	IC,L1,SS
Chloroform	ND	ug/L	1.0	1		11/24/09 19:14	67-66-3	
Chloromethane	ND	ug/L	4.0	1		11/24/09 19:14	74-87-3	
Chloroprene	ND	ug/L	1.0	1		11/24/09 19:14	126-99-8	
2-Chlorotoluene	ND	ug/L	1.0	1		11/24/09 19:14	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/24/09 19:14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		11/24/09 19:14	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/24/09 19:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/24/09 19:14	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/24/09 19:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/24/09 19:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/24/09 19:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/24/09 19:14	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/24/09 19:14	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/24/09 19:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/24/09 19:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/24/09 19:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/24/09 19:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/24/09 19:14	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		11/24/09 19:14	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/24/09 19:14	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/24/09 19:14	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		11/24/09 19:14	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/24/09 19:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		11/24/09 19:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		11/24/09 19:14	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		11/24/09 19:14	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		11/24/09 19:14	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		11/24/09 19:14	87-68-3	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

Sample: AS-INFLUENT **Lab ID: 10117287001** Collected: 11/16/09 10:10 Received: 11/18/09 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV	Analytical Method: EPA 624							
2-Hexanone	ND	ug/L	4.0	1		11/24/09 19:14	591-78-6	
Iodomethane	ND	ug/L	4.0	1		11/24/09 19:14	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/24/09 19:14	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/24/09 19:14	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		11/24/09 19:14	75-09-2	
2-Methylnaphthalene	ND	ug/L	5.0	1		11/24/09 19:14	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/24/09 19:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/24/09 19:14	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		11/24/09 19:14	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		11/24/09 19:14	103-65-1	
Styrene	ND	ug/L	1.0	1		11/24/09 19:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/24/09 19:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/24/09 19:14	79-34-5	
Tetrachloroethene	**30.7**	ug/L	1.0	1		11/24/09 19:14	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		11/24/09 19:14	109-99-9	
Toluene	ND	ug/L	1.0	1		11/24/09 19:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/24/09 19:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/24/09 19:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/24/09 19:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	4.0	1		11/24/09 19:14	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/24/09 19:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	4.0	1		11/24/09 19:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/24/09 19:14	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		11/24/09 19:14	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/24/09 19:14	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/24/09 19:14	108-67-8	
Vinyl acetate	ND	ug/L	20.0	1		11/24/09 19:14	108-05-4	
Vinyl chloride	ND	ug/L	0.40	1		11/24/09 19:14	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/24/09 19:14	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/24/09 19:14	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		11/24/09 19:14	95-47-6	
Dibromofluoromethane (S)	104	%	75-125	1		11/24/09 19:14	1868-53-7	
4-Bromofluorobenzene (S)	103	%	75-125	1		11/24/09 19:14	460-00-4	
Toluene-d8 (S)	98	%	75-125	1		11/24/09 19:14	2037-26-5	
1,2-Dichloroethane-d4 (S)	103	%	75-125	1		11/24/09 19:14	17060-07-0	

Sample: AS-EFFLUENT **Lab ID: 10117287002** Collected: 11/16/09 10:20 Received: 11/18/09 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV	Analytical Method: EPA 624							
Acetone	ND	ug/L	10.0	1		11/24/09 16:18	67-64-1	
Acrolein	ND	ug/L	40.0	1		11/24/09 16:18	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1		11/24/09 16:18	107-13-1	
Allyl chloride	ND	ug/L	4.0	1		11/24/09 16:18	107-05-1	
Benzene	ND	ug/L	1.0	1		11/24/09 16:18	71-43-2	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

Sample: AS-EFFLUENT **Lab ID: 10117287002** Collected: 11/16/09 10:20 Received: 11/18/09 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV	Analytical Method: EPA 624							
Bromobenzene	ND	ug/L	1.0	1		11/24/09 16:18	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/24/09 16:18	74-97-5	
Bromodichloromethane	ND	ug/L	4.0	1		11/24/09 16:18	75-27-4	
Bromoform	ND	ug/L	8.0	1		11/24/09 16:18	75-25-2	
Bromomethane	ND	ug/L	4.0	1		11/24/09 16:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		11/24/09 16:18	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		11/24/09 16:18	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/24/09 16:18	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		11/24/09 16:18	98-06-6	
Carbon disulfide	ND	ug/L	1.0	1		11/24/09 16:18	75-15-0	
Carbon tetrachloride	ND	ug/L	4.0	1		11/24/09 16:18	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/24/09 16:18	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/24/09 16:18	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		11/24/09 16:18	110-75-8	IC,L1,SS
Chloroform	ND	ug/L	1.0	1		11/24/09 16:18	67-66-3	
Chloromethane	ND	ug/L	4.0	1		11/24/09 16:18	74-87-3	
Chloroprene	ND	ug/L	1.0	1		11/24/09 16:18	126-99-8	
2-Chlorotoluene	ND	ug/L	1.0	1		11/24/09 16:18	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/24/09 16:18	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		11/24/09 16:18	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/24/09 16:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/24/09 16:18	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/24/09 16:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/24/09 16:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/24/09 16:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/24/09 16:18	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/24/09 16:18	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/24/09 16:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/24/09 16:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/24/09 16:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/24/09 16:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/24/09 16:18	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		11/24/09 16:18	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/24/09 16:18	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/24/09 16:18	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		11/24/09 16:18	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/24/09 16:18	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		11/24/09 16:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		11/24/09 16:18	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		11/24/09 16:18	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		11/24/09 16:18	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		11/24/09 16:18	87-68-3	
2-Hexanone	ND	ug/L	4.0	1		11/24/09 16:18	591-78-6	
Iodomethane	ND	ug/L	4.0	1		11/24/09 16:18	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/24/09 16:18	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/24/09 16:18	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		11/24/09 16:18	75-09-2	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

Sample: AS-EFFLUENT **Lab ID: 10117287002** Collected: 11/16/09 10:20 Received: 11/18/09 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV	Analytical Method: EPA 624							
2-Methylnaphthalene	ND	ug/L	5.0	1		11/24/09 16:18	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/24/09 16:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/24/09 16:18	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		11/24/09 16:18	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		11/24/09 16:18	103-65-1	
Styrene	ND	ug/L	1.0	1		11/24/09 16:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/24/09 16:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/24/09 16:18	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/24/09 16:18	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		11/24/09 16:18	109-99-9	
Toluene	ND	ug/L	1.0	1		11/24/09 16:18	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/24/09 16:18	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/24/09 16:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/24/09 16:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	4.0	1		11/24/09 16:18	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/24/09 16:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	4.0	1		11/24/09 16:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/24/09 16:18	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		11/24/09 16:18	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/24/09 16:18	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/24/09 16:18	108-67-8	
Vinyl acetate	ND	ug/L	20.0	1		11/24/09 16:18	108-05-4	
Vinyl chloride	ND	ug/L	0.40	1		11/24/09 16:18	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/24/09 16:18	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/24/09 16:18	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		11/24/09 16:18	95-47-6	
Dibromofluoromethane (S)	103	%	75-125	1		11/24/09 16:18	1868-53-7	
4-Bromofluorobenzene (S)	100	%	75-125	1		11/24/09 16:18	460-00-4	
Toluene-d8 (S)	95	%	75-125	1		11/24/09 16:18	2037-26-5	
1,2-Dichloroethane-d4 (S)	103	%	75-125	1		11/24/09 16:18	17060-07-0	

Sample: MW-14 **Lab ID: 10117287003** Collected: 11/16/09 15:40 Received: 11/18/09 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/20/09 18:35	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		11/20/09 18:35	107-05-1	
Benzene	ND	ug/L	1.0	1		11/20/09 18:35	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/20/09 18:35	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/20/09 18:35	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/20/09 18:35	75-27-4	
Bromoform	ND	ug/L	8.0	1		11/20/09 18:35	75-25-2	
Bromomethane	ND	ug/L	4.0	1		11/20/09 18:35	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		11/20/09 18:35	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		11/20/09 18:35	104-51-8	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

Sample: MW-14 **Lab ID: 10117287003** Collected: 11/16/09 15:40 Received: 11/18/09 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
sec-Butylbenzene	ND	ug/L	1.0	1		11/20/09 18:35	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		11/20/09 18:35	98-06-6	
Carbon tetrachloride	ND	ug/L	4.0	1		11/20/09 18:35	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/20/09 18:35	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/20/09 18:35	75-00-3	
Chloroform	**2.7**	ug/L	1.0	1		11/20/09 18:35	67-66-3	
Chloromethane	ND	ug/L	4.0	1		11/20/09 18:35	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/20/09 18:35	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/20/09 18:35	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		11/20/09 18:35	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/20/09 18:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/20/09 18:35	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/20/09 18:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/20/09 18:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/20/09 18:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/20/09 18:35	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/20/09 18:35	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/20/09 18:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/20/09 18:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/20/09 18:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/20/09 18:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/20/09 18:35	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		11/20/09 18:35	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/20/09 18:35	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/20/09 18:35	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		11/20/09 18:35	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/20/09 18:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		11/20/09 18:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		11/20/09 18:35	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		11/20/09 18:35	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		11/20/09 18:35	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		11/20/09 18:35	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/20/09 18:35	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/20/09 18:35	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		11/20/09 18:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		11/20/09 18:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/20/09 18:35	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		11/20/09 18:35	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		11/20/09 18:35	103-65-1	
Styrene	ND	ug/L	1.0	1		11/20/09 18:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/20/09 18:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/20/09 18:35	79-34-5	
Tetrachloroethene	**7.1**	ug/L	1.0	1		11/20/09 18:35	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		11/20/09 18:35	109-99-9	
Toluene	ND	ug/L	1.0	1		11/20/09 18:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/20/09 18:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/20/09 18:35	120-82-1	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

Sample: MW-14 **Lab ID: 10117287003** Collected: 11/16/09 15:40 Received: 11/18/09 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/20/09 18:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/20/09 18:35	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/20/09 18:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/20/09 18:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/20/09 18:35	96-18-4	
1,1,2-Trichlorotrifluoroethane	**1.1**	ug/L	1.0	1		11/20/09 18:35	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/20/09 18:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/20/09 18:35	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		11/20/09 18:35	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/20/09 18:35	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/20/09 18:35	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		11/20/09 18:35	95-47-6	
Dibromofluoromethane (S)	101	%	75-125	1		11/20/09 18:35	1868-53-7	pH
Toluene-d8 (S)	98	%	75-125	1		11/20/09 18:35	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125	1		11/20/09 18:35	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	75-125	1		11/20/09 18:35	17060-07-0	

Sample: MW-15 **Lab ID: 10117287004** Collected: 11/16/09 17:00 Received: 11/18/09 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/20/09 18:57	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		11/20/09 18:57	107-05-1	
Benzene	ND	ug/L	1.0	1		11/20/09 18:57	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/20/09 18:57	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/20/09 18:57	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/20/09 18:57	75-27-4	
Bromoform	ND	ug/L	8.0	1		11/20/09 18:57	75-25-2	
Bromomethane	ND	ug/L	4.0	1		11/20/09 18:57	74-83-9	
2-Butanone (MEK)	**5.1**	ug/L	4.0	1		11/20/09 18:57	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		11/20/09 18:57	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/20/09 18:57	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		11/20/09 18:57	98-06-6	
Carbon tetrachloride	ND	ug/L	4.0	1		11/20/09 18:57	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/20/09 18:57	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/20/09 18:57	75-00-3	
Chloroform	**2.2**	ug/L	1.0	1		11/20/09 18:57	67-66-3	
Chloromethane	ND	ug/L	4.0	1		11/20/09 18:57	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/20/09 18:57	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/20/09 18:57	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		11/20/09 18:57	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/20/09 18:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/20/09 18:57	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/20/09 18:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/20/09 18:57	95-50-1	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

Sample: MW-15 **Lab ID: 10117287004** Collected: 11/16/09 17:00 Received: 11/18/09 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/20/09 18:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/20/09 18:57	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/20/09 18:57	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/20/09 18:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/20/09 18:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/20/09 18:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/20/09 18:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/20/09 18:57	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		11/20/09 18:57	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/20/09 18:57	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/20/09 18:57	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		11/20/09 18:57	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/20/09 18:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		11/20/09 18:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		11/20/09 18:57	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		11/20/09 18:57	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		11/20/09 18:57	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		11/20/09 18:57	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/20/09 18:57	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/20/09 18:57	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		11/20/09 18:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		11/20/09 18:57	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/20/09 18:57	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		11/20/09 18:57	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		11/20/09 18:57	103-65-1	
Styrene	ND	ug/L	1.0	1		11/20/09 18:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/20/09 18:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/20/09 18:57	79-34-5	
Tetrachloroethene	**9.5**	ug/L	1.0	1		11/20/09 18:57	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		11/20/09 18:57	109-99-9	
Toluene	ND	ug/L	1.0	1		11/20/09 18:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/20/09 18:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/20/09 18:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/20/09 18:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/20/09 18:57	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/20/09 18:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/20/09 18:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/20/09 18:57	96-18-4	
1,1,2-Trichlorotrifluoroethane	**6.4**	ug/L	1.0	1		11/20/09 18:57	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/20/09 18:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/20/09 18:57	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		11/20/09 18:57	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/20/09 18:57	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/20/09 18:57	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		11/20/09 18:57	95-47-6	
Dibromofluoromethane (S)	101	%	75-125	1		11/20/09 18:57	1868-53-7	
Toluene-d8 (S)	100	%	75-125	1		11/20/09 18:57	2037-26-5	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

Sample: MW-15 **Lab ID: 10117287004** Collected: 11/16/09 17:00 Received: 11/18/09 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
4-Bromofluorobenzene (S)	99	%	75-125	1		11/20/09 18:57	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	75-125	1		11/20/09 18:57	17060-07-0	

Sample: MW-16 **Lab ID: 10117287005** Collected: 11/16/09 19:20 Received: 11/18/09 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	2500	250		11/23/09 18:25	67-64-1	
Allyl chloride	ND	ug/L	1000	250		11/23/09 18:25	107-05-1	
Benzene	ND	ug/L	250	250		11/23/09 18:25	71-43-2	
Bromobenzene	ND	ug/L	250	250		11/23/09 18:25	108-86-1	
Bromochloromethane	ND	ug/L	250	250		11/23/09 18:25	74-97-5	
Bromodichloromethane	ND	ug/L	250	250		11/23/09 18:25	75-27-4	
Bromoform	ND	ug/L	2000	250		11/23/09 18:25	75-25-2	
Bromomethane	ND	ug/L	1000	250		11/23/09 18:25	74-83-9	
2-Butanone (MEK)	ND	ug/L	1000	250		11/23/09 18:25	78-93-3	
n-Butylbenzene	ND	ug/L	250	250		11/23/09 18:25	104-51-8	
sec-Butylbenzene	ND	ug/L	250	250		11/23/09 18:25	135-98-8	
tert-Butylbenzene	ND	ug/L	250	250		11/23/09 18:25	98-06-6	
Carbon tetrachloride	ND	ug/L	1000	250		11/23/09 18:25	56-23-5	
Chlorobenzene	ND	ug/L	250	250		11/23/09 18:25	108-90-7	
Chloroethane	ND	ug/L	250	250		11/23/09 18:25	75-00-3	
Chloroform	ND	ug/L	250	250		11/23/09 18:25	67-66-3	
Chloromethane	ND	ug/L	1000	250		11/23/09 18:25	74-87-3	
2-Chlorotoluene	ND	ug/L	250	250		11/23/09 18:25	95-49-8	
4-Chlorotoluene	ND	ug/L	250	250		11/23/09 18:25	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1000	250		11/23/09 18:25	96-12-8	
Dibromochloromethane	ND	ug/L	250	250		11/23/09 18:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	250	250		11/23/09 18:25	106-93-4	
Dibromomethane	ND	ug/L	250	250		11/23/09 18:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	250	250		11/23/09 18:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	250	250		11/23/09 18:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	250	250		11/23/09 18:25	106-46-7	
Dichlorodifluoromethane	ND	ug/L	250	250		11/23/09 18:25	75-71-8	
1,1-Dichloroethane	ND	ug/L	250	250		11/23/09 18:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	250	250		11/23/09 18:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	250	250		11/23/09 18:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	250	250		11/23/09 18:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	250	250		11/23/09 18:25	156-60-5	
Dichlorofluoromethane	ND	ug/L	250	250		11/23/09 18:25	75-43-4	
1,2-Dichloropropane	ND	ug/L	250	250		11/23/09 18:25	78-87-5	
1,3-Dichloropropane	ND	ug/L	250	250		11/23/09 18:25	142-28-9	
2,2-Dichloropropane	ND	ug/L	1000	250		11/23/09 18:25	594-20-7	
1,1-Dichloropropene	ND	ug/L	250	250		11/23/09 18:25	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1000	250		11/23/09 18:25	10061-01-5	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

Sample: MW-16 **Lab ID: 10117287005** Collected: 11/16/09 19:20 Received: 11/18/09 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	ND	ug/L	1000	250		11/23/09 18:25	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	1000	250		11/23/09 18:25	60-29-7	
Ethylbenzene	ND	ug/L	250	250		11/23/09 18:25	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1000	250		11/23/09 18:25	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	250	250		11/23/09 18:25	98-82-8	
p-Isopropyltoluene	ND	ug/L	250	250		11/23/09 18:25	99-87-6	
Methylene Chloride	ND	ug/L	1000	250		11/23/09 18:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	1000	250		11/23/09 18:25	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	250	250		11/23/09 18:25	1634-04-4	
Naphthalene	ND	ug/L	1000	250		11/23/09 18:25	91-20-3	
n-Propylbenzene	ND	ug/L	250	250		11/23/09 18:25	103-65-1	
Styrene	ND	ug/L	250	250		11/23/09 18:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	250	250		11/23/09 18:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	250	250		11/23/09 18:25	79-34-5	
Tetrachloroethene	**21000**	ug/L	250	250		11/23/09 18:25	127-18-4	
Tetrahydrofuran	ND	ug/L	2500	250		11/23/09 18:25	109-99-9	
Toluene	ND	ug/L	250	250		11/23/09 18:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	250	250		11/23/09 18:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	250	250		11/23/09 18:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	250	250		11/23/09 18:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	250	250		11/23/09 18:25	79-00-5	
Trichloroethene	ND	ug/L	250	250		11/23/09 18:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	250	250		11/23/09 18:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	250	250		11/23/09 18:25	96-18-4	
1,1,2-Trichlorotrifluoroethane	**1390**	ug/L	250	250		11/23/09 18:25	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	250	250		11/23/09 18:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	250	250		11/23/09 18:25	108-67-8	
Vinyl chloride	ND	ug/L	100	250		11/23/09 18:25	75-01-4	
Xylene (Total)	ND	ug/L	750	250		11/23/09 18:25	1330-20-7	
m&p-Xylene	ND	ug/L	500	250		11/23/09 18:25	1330-20-7	
o-Xylene	ND	ug/L	250	250		11/23/09 18:25	95-47-6	
Dibromofluoromethane (S)	93	%	75-125	250		11/23/09 18:25	1868-53-7	
Toluene-d8 (S)	97	%	75-125	250		11/23/09 18:25	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125	250		11/23/09 18:25	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	75-125	250		11/23/09 18:25	17060-07-0	

Sample: MW-17 **Lab ID: 10117287006** Collected: 11/16/09 18:10 Received: 11/18/09 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	50.0	5		11/20/09 21:33	67-64-1	
Allyl chloride	ND	ug/L	20.0	5		11/20/09 21:33	107-05-1	
Benzene	ND	ug/L	5.0	5		11/20/09 21:33	71-43-2	
Bromobenzene	ND	ug/L	5.0	5		11/20/09 21:33	108-86-1	
Bromochloromethane	ND	ug/L	5.0	5		11/20/09 21:33	74-97-5	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

Sample: MW-17 **Lab ID: 10117287006** Collected: 11/16/09 18:10 Received: 11/18/09 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Bromodichloromethane	ND	ug/L	5.0	5		11/20/09 21:33	75-27-4	
Bromoform	ND	ug/L	40.0	5		11/20/09 21:33	75-25-2	
Bromomethane	ND	ug/L	20.0	5		11/20/09 21:33	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	5		11/20/09 21:33	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	5		11/20/09 21:33	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	5		11/20/09 21:33	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	5		11/20/09 21:33	98-06-6	
Carbon tetrachloride	ND	ug/L	20.0	5		11/20/09 21:33	56-23-5	
Chlorobenzene	ND	ug/L	5.0	5		11/20/09 21:33	108-90-7	
Chloroethane	ND	ug/L	5.0	5		11/20/09 21:33	75-00-3	
Chloroform	ND	ug/L	5.0	5		11/20/09 21:33	67-66-3	
Chloromethane	ND	ug/L	20.0	5		11/20/09 21:33	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	5		11/20/09 21:33	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	5		11/20/09 21:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	20.0	5		11/20/09 21:33	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	5		11/20/09 21:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	5		11/20/09 21:33	106-93-4	
Dibromomethane	ND	ug/L	5.0	5		11/20/09 21:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	5		11/20/09 21:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	5		11/20/09 21:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	5		11/20/09 21:33	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	5		11/20/09 21:33	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	5		11/20/09 21:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	5		11/20/09 21:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	5		11/20/09 21:33	75-35-4	
cis-1,2-Dichloroethene	**7.9**	ug/L	5.0	5		11/20/09 21:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	5		11/20/09 21:33	156-60-5	
Dichlorofluoromethane	ND	ug/L	5.0	5		11/20/09 21:33	75-43-4	
1,2-Dichloropropane	ND	ug/L	5.0	5		11/20/09 21:33	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	5		11/20/09 21:33	142-28-9	
2,2-Dichloropropane	ND	ug/L	20.0	5		11/20/09 21:33	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	5		11/20/09 21:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	20.0	5		11/20/09 21:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	20.0	5		11/20/09 21:33	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	20.0	5		11/20/09 21:33	60-29-7	
Ethylbenzene	ND	ug/L	5.0	5		11/20/09 21:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	20.0	5		11/20/09 21:33	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	5		11/20/09 21:33	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	5		11/20/09 21:33	99-87-6	
Methylene Chloride	ND	ug/L	20.0	5		11/20/09 21:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	20.0	5		11/20/09 21:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	5		11/20/09 21:33	1634-04-4	
Naphthalene	ND	ug/L	20.0	5		11/20/09 21:33	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	5		11/20/09 21:33	103-65-1	
Styrene	ND	ug/L	5.0	5		11/20/09 21:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	5		11/20/09 21:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		11/20/09 21:33	79-34-5	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

Sample: MW-17 **Lab ID: 10117287006** Collected: 11/16/09 18:10 Received: 11/18/09 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Tetrachloroethene	**1100**	ug/L	5.0	5		11/20/09 21:33	127-18-4	
Tetrahydrofuran	ND	ug/L	50.0	5		11/20/09 21:33	109-99-9	
Toluene	ND	ug/L	5.0	5		11/20/09 21:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	5		11/20/09 21:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	5		11/20/09 21:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	5		11/20/09 21:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	5		11/20/09 21:33	79-00-5	
Trichloroethene	ND	ug/L	5.0	5		11/20/09 21:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	5		11/20/09 21:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	5		11/20/09 21:33	96-18-4	
1,1,2-Trichlorotrifluoroethane	**199**	ug/L	5.0	5		11/20/09 21:33	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	5		11/20/09 21:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	5		11/20/09 21:33	108-67-8	
Vinyl chloride	ND	ug/L	2.0	5		11/20/09 21:33	75-01-4	
Xylene (Total)	ND	ug/L	15.0	5		11/20/09 21:33	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	5		11/20/09 21:33	1330-20-7	
o-Xylene	ND	ug/L	5.0	5		11/20/09 21:33	95-47-6	
Dibromofluoromethane (S)	104	%	75-125	5		11/20/09 21:33	1868-53-7	
Toluene-d8 (S)	97	%	75-125	5		11/20/09 21:33	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125	5		11/20/09 21:33	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	75-125	5		11/20/09 21:33	17060-07-0	

Sample: MW-18 **Lab ID: 10117287007** Collected: 11/16/09 15:45 Received: 11/18/09 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/23/09 16:11	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		11/23/09 16:11	107-05-1	
Benzene	ND	ug/L	1.0	1		11/23/09 16:11	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/23/09 16:11	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/23/09 16:11	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/23/09 16:11	75-27-4	
Bromoform	ND	ug/L	8.0	1		11/23/09 16:11	75-25-2	
Bromomethane	ND	ug/L	4.0	1		11/23/09 16:11	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		11/23/09 16:11	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		11/23/09 16:11	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/23/09 16:11	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		11/23/09 16:11	98-06-6	
Carbon tetrachloride	ND	ug/L	4.0	1		11/23/09 16:11	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/23/09 16:11	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/23/09 16:11	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/23/09 16:11	67-66-3	
Chloromethane	ND	ug/L	4.0	1		11/23/09 16:11	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/23/09 16:11	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/23/09 16:11	106-43-4	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

Sample: MW-18 **Lab ID: 10117287007** Collected: 11/16/09 15:45 Received: 11/18/09 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		11/23/09 16:11	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/23/09 16:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/23/09 16:11	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/23/09 16:11	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/23/09 16:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/23/09 16:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/23/09 16:11	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/23/09 16:11	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/23/09 16:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/23/09 16:11	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/23/09 16:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/23/09 16:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/23/09 16:11	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		11/23/09 16:11	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/23/09 16:11	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/23/09 16:11	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		11/23/09 16:11	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/23/09 16:11	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		11/23/09 16:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		11/23/09 16:11	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		11/23/09 16:11	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		11/23/09 16:11	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		11/23/09 16:11	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/23/09 16:11	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/23/09 16:11	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		11/23/09 16:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		11/23/09 16:11	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/23/09 16:11	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		11/23/09 16:11	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		11/23/09 16:11	103-65-1	
Styrene	ND	ug/L	1.0	1		11/23/09 16:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/23/09 16:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/23/09 16:11	79-34-5	
Tetrachloroethene	**130**	ug/L	1.0	1		11/23/09 16:11	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		11/23/09 16:11	109-99-9	
Toluene	ND	ug/L	1.0	1		11/23/09 16:11	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/23/09 16:11	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/23/09 16:11	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/23/09 16:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/23/09 16:11	79-00-5	
Trichloroethene	**2.1**	ug/L	1.0	1		11/23/09 16:11	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/23/09 16:11	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/23/09 16:11	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		11/23/09 16:11	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/23/09 16:11	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/23/09 16:11	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		11/23/09 16:11	75-01-4	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

Sample: MW-18 **Lab ID: 10117287007** Collected: 11/16/09 15:45 Received: 11/18/09 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	3.0	1		11/23/09 16:11	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/23/09 16:11	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		11/23/09 16:11	95-47-6	
Dibromofluoromethane (S)	95	%	75-125	1		11/23/09 16:11	1868-53-7	
Toluene-d8 (S)	98	%	75-125	1		11/23/09 16:11	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125	1		11/23/09 16:11	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	75-125	1		11/23/09 16:11	17060-07-0	

Sample: MW-19 **Lab ID: 10117287008** Collected: 11/16/09 16:30 Received: 11/18/09 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/20/09 20:48	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		11/20/09 20:48	107-05-1	
Benzene	ND	ug/L	1.0	1		11/20/09 20:48	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/20/09 20:48	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/20/09 20:48	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/20/09 20:48	75-27-4	
Bromoform	ND	ug/L	8.0	1		11/20/09 20:48	75-25-2	
Bromomethane	ND	ug/L	4.0	1		11/20/09 20:48	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		11/20/09 20:48	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		11/20/09 20:48	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/20/09 20:48	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		11/20/09 20:48	98-06-6	
Carbon tetrachloride	ND	ug/L	4.0	1		11/20/09 20:48	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/20/09 20:48	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/20/09 20:48	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/20/09 20:48	67-66-3	
Chloromethane	ND	ug/L	4.0	1		11/20/09 20:48	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/20/09 20:48	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/20/09 20:48	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		11/20/09 20:48	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/20/09 20:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/20/09 20:48	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/20/09 20:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/20/09 20:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/20/09 20:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/20/09 20:48	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/20/09 20:48	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/20/09 20:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/20/09 20:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/20/09 20:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/20/09 20:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/20/09 20:48	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		11/20/09 20:48	75-43-4	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

Sample: MW-19 **Lab ID: 10117287008** Collected: 11/16/09 16:30 Received: 11/18/09 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
1,2-Dichloropropane	ND	ug/L	1.0	1		11/20/09 20:48	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/20/09 20:48	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		11/20/09 20:48	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/20/09 20:48	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		11/20/09 20:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		11/20/09 20:48	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		11/20/09 20:48	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		11/20/09 20:48	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		11/20/09 20:48	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/20/09 20:48	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/20/09 20:48	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		11/20/09 20:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		11/20/09 20:48	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/20/09 20:48	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		11/20/09 20:48	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		11/20/09 20:48	103-65-1	
Styrene	ND	ug/L	1.0	1		11/20/09 20:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/20/09 20:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/20/09 20:48	79-34-5	
Tetrachloroethene	**13.6**	ug/L	1.0	1		11/20/09 20:48	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		11/20/09 20:48	109-99-9	
Toluene	ND	ug/L	1.0	1		11/20/09 20:48	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/20/09 20:48	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/20/09 20:48	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/20/09 20:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/20/09 20:48	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/20/09 20:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/20/09 20:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/20/09 20:48	96-18-4	
1,1,2-Trichlorotrifluoroethane	**1.9**	ug/L	1.0	1		11/20/09 20:48	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/20/09 20:48	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/20/09 20:48	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		11/20/09 20:48	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/20/09 20:48	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/20/09 20:48	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		11/20/09 20:48	95-47-6	
Dibromofluoromethane (S)	102	%	75-125	1		11/20/09 20:48	1868-53-7	
Toluene-d8 (S)	96	%	75-125	1		11/20/09 20:48	2037-26-5	
4-Bromofluorobenzene (S)	97	%	75-125	1		11/20/09 20:48	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	75-125	1		11/20/09 20:48	17060-07-0	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

Sample: MW-20 **Lab ID: 10117287009** Collected: 11/16/09 18:50 Received: 11/18/09 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	20.0	2		11/23/09 16:56	67-64-1	
Allyl chloride	ND	ug/L	8.0	2		11/23/09 16:56	107-05-1	
Benzene	ND	ug/L	2.0	2		11/23/09 16:56	71-43-2	
Bromobenzene	ND	ug/L	2.0	2		11/23/09 16:56	108-86-1	
Bromochloromethane	ND	ug/L	2.0	2		11/23/09 16:56	74-97-5	
Bromodichloromethane	ND	ug/L	2.0	2		11/23/09 16:56	75-27-4	
Bromoform	ND	ug/L	16.0	2		11/23/09 16:56	75-25-2	
Bromomethane	ND	ug/L	8.0	2		11/23/09 16:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	8.0	2		11/23/09 16:56	78-93-3	
n-Butylbenzene	ND	ug/L	2.0	2		11/23/09 16:56	104-51-8	
sec-Butylbenzene	ND	ug/L	2.0	2		11/23/09 16:56	135-98-8	
tert-Butylbenzene	ND	ug/L	2.0	2		11/23/09 16:56	98-06-6	
Carbon tetrachloride	ND	ug/L	8.0	2		11/23/09 16:56	56-23-5	
Chlorobenzene	ND	ug/L	2.0	2		11/23/09 16:56	108-90-7	
Chloroethane	ND	ug/L	2.0	2		11/23/09 16:56	75-00-3	
Chloroform	ND	ug/L	2.0	2		11/23/09 16:56	67-66-3	
Chloromethane	ND	ug/L	8.0	2		11/23/09 16:56	74-87-3	
2-Chlorotoluene	ND	ug/L	2.0	2		11/23/09 16:56	95-49-8	
4-Chlorotoluene	ND	ug/L	2.0	2		11/23/09 16:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	8.0	2		11/23/09 16:56	96-12-8	
Dibromochloromethane	ND	ug/L	2.0	2		11/23/09 16:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	2		11/23/09 16:56	106-93-4	
Dibromomethane	ND	ug/L	2.0	2		11/23/09 16:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	2.0	2		11/23/09 16:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2.0	2		11/23/09 16:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2.0	2		11/23/09 16:56	106-46-7	
Dichlorodifluoromethane	ND	ug/L	2.0	2		11/23/09 16:56	75-71-8	
1,1-Dichloroethane	ND	ug/L	2.0	2		11/23/09 16:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	2.0	2		11/23/09 16:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	2.0	2		11/23/09 16:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	2.0	2		11/23/09 16:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	2.0	2		11/23/09 16:56	156-60-5	
Dichlorofluoromethane	ND	ug/L	2.0	2		11/23/09 16:56	75-43-4	
1,2-Dichloropropane	ND	ug/L	2.0	2		11/23/09 16:56	78-87-5	
1,3-Dichloropropane	ND	ug/L	2.0	2		11/23/09 16:56	142-28-9	
2,2-Dichloropropane	ND	ug/L	8.0	2		11/23/09 16:56	594-20-7	
1,1-Dichloropropene	ND	ug/L	2.0	2		11/23/09 16:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	8.0	2		11/23/09 16:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	8.0	2		11/23/09 16:56	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	8.0	2		11/23/09 16:56	60-29-7	
Ethylbenzene	ND	ug/L	2.0	2		11/23/09 16:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	8.0	2		11/23/09 16:56	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	2.0	2		11/23/09 16:56	98-82-8	
p-Isopropyltoluene	ND	ug/L	2.0	2		11/23/09 16:56	99-87-6	
Methylene Chloride	ND	ug/L	8.0	2		11/23/09 16:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	8.0	2		11/23/09 16:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	2.0	2		11/23/09 16:56	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

Sample: MW-20 **Lab ID: 10117287009** Collected: 11/16/09 18:50 Received: 11/18/09 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Naphthalene	ND	ug/L	8.0	2		11/23/09 16:56	91-20-3	
n-Propylbenzene	ND	ug/L	2.0	2		11/23/09 16:56	103-65-1	
Styrene	ND	ug/L	2.0	2		11/23/09 16:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	2.0	2		11/23/09 16:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.0	2		11/23/09 16:56	79-34-5	
Tetrachloroethene	**307**	ug/L	2.0	2		11/23/09 16:56	127-18-4	
Tetrahydrofuran	ND	ug/L	20.0	2		11/23/09 16:56	109-99-9	
Toluene	ND	ug/L	2.0	2		11/23/09 16:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	2		11/23/09 16:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	2		11/23/09 16:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	2.0	2		11/23/09 16:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	2.0	2		11/23/09 16:56	79-00-5	
Trichloroethene	ND	ug/L	2.0	2		11/23/09 16:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	2.0	2		11/23/09 16:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.0	2		11/23/09 16:56	96-18-4	
1,1,2-Trichlorotrifluoroethane	**37.4**	ug/L	2.0	2		11/23/09 16:56	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	2.0	2		11/23/09 16:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	2.0	2		11/23/09 16:56	108-67-8	
Vinyl chloride	ND	ug/L	0.80	2		11/23/09 16:56	75-01-4	
Xylene (Total)	ND	ug/L	6.0	2		11/23/09 16:56	1330-20-7	
m&p-Xylene	ND	ug/L	4.0	2		11/23/09 16:56	1330-20-7	
o-Xylene	ND	ug/L	2.0	2		11/23/09 16:56	95-47-6	
Dibromofluoromethane (S)	94	%	75-125	2		11/23/09 16:56	1868-53-7	
Toluene-d8 (S)	96	%	75-125	2		11/23/09 16:56	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125	2		11/23/09 16:56	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	75-125	2		11/23/09 16:56	17060-07-0	

Sample: DPE-1 **Lab ID: 10117287010** Collected: 11/16/09 19:50 Received: 11/18/09 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	250	25		11/23/09 16:34	67-64-1	
Allyl chloride	ND	ug/L	100	25		11/23/09 16:34	107-05-1	
Benzene	ND	ug/L	25.0	25		11/23/09 16:34	71-43-2	
Bromobenzene	ND	ug/L	25.0	25		11/23/09 16:34	108-86-1	
Bromochloromethane	ND	ug/L	25.0	25		11/23/09 16:34	74-97-5	
Bromodichloromethane	ND	ug/L	25.0	25		11/23/09 16:34	75-27-4	
Bromoform	ND	ug/L	200	25		11/23/09 16:34	75-25-2	
Bromomethane	ND	ug/L	100	25		11/23/09 16:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	25		11/23/09 16:34	78-93-3	
n-Butylbenzene	ND	ug/L	25.0	25		11/23/09 16:34	104-51-8	
sec-Butylbenzene	ND	ug/L	25.0	25		11/23/09 16:34	135-98-8	
tert-Butylbenzene	ND	ug/L	25.0	25		11/23/09 16:34	98-06-6	
Carbon tetrachloride	ND	ug/L	100	25		11/23/09 16:34	56-23-5	
Chlorobenzene	ND	ug/L	25.0	25		11/23/09 16:34	108-90-7	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

Sample: DPE-1 **Lab ID: 10117287010** Collected: 11/16/09 19:50 Received: 11/18/09 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Chloroethane	ND	ug/L	25.0	25		11/23/09 16:34	75-00-3	
Chloroform	ND	ug/L	25.0	25		11/23/09 16:34	67-66-3	
Chloromethane	ND	ug/L	100	25		11/23/09 16:34	74-87-3	
2-Chlorotoluene	ND	ug/L	25.0	25		11/23/09 16:34	95-49-8	
4-Chlorotoluene	ND	ug/L	25.0	25		11/23/09 16:34	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	100	25		11/23/09 16:34	96-12-8	
Dibromochloromethane	ND	ug/L	25.0	25		11/23/09 16:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	25.0	25		11/23/09 16:34	106-93-4	
Dibromomethane	ND	ug/L	25.0	25		11/23/09 16:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	25.0	25		11/23/09 16:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	25.0	25		11/23/09 16:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	25.0	25		11/23/09 16:34	106-46-7	
Dichlorodifluoromethane	ND	ug/L	25.0	25		11/23/09 16:34	75-71-8	
1,1-Dichloroethane	ND	ug/L	25.0	25		11/23/09 16:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	25.0	25		11/23/09 16:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	25.0	25		11/23/09 16:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	25.0	25		11/23/09 16:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	25.0	25		11/23/09 16:34	156-60-5	
Dichlorofluoromethane	ND	ug/L	25.0	25		11/23/09 16:34	75-43-4	
1,2-Dichloropropane	ND	ug/L	25.0	25		11/23/09 16:34	78-87-5	
1,3-Dichloropropane	ND	ug/L	25.0	25		11/23/09 16:34	142-28-9	
2,2-Dichloropropane	ND	ug/L	100	25		11/23/09 16:34	594-20-7	
1,1-Dichloropropene	ND	ug/L	25.0	25		11/23/09 16:34	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	100	25		11/23/09 16:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	100	25		11/23/09 16:34	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	100	25		11/23/09 16:34	60-29-7	
Ethylbenzene	ND	ug/L	25.0	25		11/23/09 16:34	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	100	25		11/23/09 16:34	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	25.0	25		11/23/09 16:34	98-82-8	
p-Isopropyltoluene	ND	ug/L	25.0	25		11/23/09 16:34	99-87-6	
Methylene Chloride	ND	ug/L	100	25		11/23/09 16:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	25		11/23/09 16:34	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	25.0	25		11/23/09 16:34	1634-04-4	
Naphthalene	ND	ug/L	100	25		11/23/09 16:34	91-20-3	
n-Propylbenzene	ND	ug/L	25.0	25		11/23/09 16:34	103-65-1	
Styrene	ND	ug/L	25.0	25		11/23/09 16:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	25.0	25		11/23/09 16:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	25.0	25		11/23/09 16:34	79-34-5	
Tetrachloroethene	**3330**	ug/L	25.0	25		11/23/09 16:34	127-18-4	P6
Tetrahydrofuran	ND	ug/L	250	25		11/23/09 16:34	109-99-9	
Toluene	ND	ug/L	25.0	25		11/23/09 16:34	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	25.0	25		11/23/09 16:34	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	25.0	25		11/23/09 16:34	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	25.0	25		11/23/09 16:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	25.0	25		11/23/09 16:34	79-00-5	
Trichloroethene	ND	ug/L	25.0	25		11/23/09 16:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	25.0	25		11/23/09 16:34	75-69-4	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

Sample: DPE-1 **Lab ID: 10117287010** Collected: 11/16/09 19:50 Received: 11/18/09 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
1,2,3-Trichloropropane	ND	ug/L	25.0	25		11/23/09 16:34	96-18-4	
1,1,2-Trichlorotrifluoroethane	**215**	ug/L	25.0	25		11/23/09 16:34	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	25.0	25		11/23/09 16:34	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	25.0	25		11/23/09 16:34	108-67-8	
Vinyl chloride	ND	ug/L	10.0	25		11/23/09 16:34	75-01-4	
Xylene (Total)	ND	ug/L	75.0	25		11/23/09 16:34	1330-20-7	
m&p-Xylene	ND	ug/L	50.0	25		11/23/09 16:34	1330-20-7	
o-Xylene	ND	ug/L	25.0	25		11/23/09 16:34	95-47-6	
Dibromofluoromethane (S)	94	%	75-125	25		11/23/09 16:34	1868-53-7	
Toluene-d8 (S)	96	%	75-125	25		11/23/09 16:34	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125	25		11/23/09 16:34	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	75-125	25		11/23/09 16:34	17060-07-0	

Sample: DPE-2 **Lab ID: 10117287011** Collected: 11/17/09 09:40 Received: 11/18/09 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	1000	100		11/23/09 17:18	67-64-1	
Allyl chloride	ND	ug/L	400	100		11/23/09 17:18	107-05-1	
Benzene	ND	ug/L	100	100		11/23/09 17:18	71-43-2	
Bromobenzene	ND	ug/L	100	100		11/23/09 17:18	108-86-1	
Bromochloromethane	ND	ug/L	100	100		11/23/09 17:18	74-97-5	
Bromodichloromethane	ND	ug/L	100	100		11/23/09 17:18	75-27-4	
Bromoform	ND	ug/L	800	100		11/23/09 17:18	75-25-2	
Bromomethane	ND	ug/L	400	100		11/23/09 17:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	400	100		11/23/09 17:18	78-93-3	
n-Butylbenzene	ND	ug/L	100	100		11/23/09 17:18	104-51-8	
sec-Butylbenzene	ND	ug/L	100	100		11/23/09 17:18	135-98-8	
tert-Butylbenzene	ND	ug/L	100	100		11/23/09 17:18	98-06-6	
Carbon tetrachloride	ND	ug/L	400	100		11/23/09 17:18	56-23-5	
Chlorobenzene	ND	ug/L	100	100		11/23/09 17:18	108-90-7	
Chloroethane	ND	ug/L	100	100		11/23/09 17:18	75-00-3	
Chloroform	ND	ug/L	100	100		11/23/09 17:18	67-66-3	
Chloromethane	ND	ug/L	400	100		11/23/09 17:18	74-87-3	
2-Chlorotoluene	ND	ug/L	100	100		11/23/09 17:18	95-49-8	
4-Chlorotoluene	ND	ug/L	100	100		11/23/09 17:18	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	400	100		11/23/09 17:18	96-12-8	
Dibromochloromethane	ND	ug/L	100	100		11/23/09 17:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	100	100		11/23/09 17:18	106-93-4	
Dibromomethane	ND	ug/L	100	100		11/23/09 17:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	100	100		11/23/09 17:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	100	100		11/23/09 17:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	100	100		11/23/09 17:18	106-46-7	
Dichlorodifluoromethane	ND	ug/L	100	100		11/23/09 17:18	75-71-8	
1,1-Dichloroethane	ND	ug/L	100	100		11/23/09 17:18	75-34-3	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

Sample: DPE-2 **Lab ID: 10117287011** Collected: 11/17/09 09:40 Received: 11/18/09 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
1,2-Dichloroethane	ND	ug/L	100	100		11/23/09 17:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	100	100		11/23/09 17:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	100	100		11/23/09 17:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	100	100		11/23/09 17:18	156-60-5	
Dichlorofluoromethane	ND	ug/L	100	100		11/23/09 17:18	75-43-4	
1,2-Dichloropropane	ND	ug/L	100	100		11/23/09 17:18	78-87-5	
1,3-Dichloropropane	ND	ug/L	100	100		11/23/09 17:18	142-28-9	
2,2-Dichloropropane	ND	ug/L	400	100		11/23/09 17:18	594-20-7	
1,1-Dichloropropene	ND	ug/L	100	100		11/23/09 17:18	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	400	100		11/23/09 17:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	400	100		11/23/09 17:18	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	400	100		11/23/09 17:18	60-29-7	
Ethylbenzene	ND	ug/L	100	100		11/23/09 17:18	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	400	100		11/23/09 17:18	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	100	100		11/23/09 17:18	98-82-8	
p-Isopropyltoluene	ND	ug/L	100	100		11/23/09 17:18	99-87-6	
Methylene Chloride	ND	ug/L	400	100		11/23/09 17:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	400	100		11/23/09 17:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	100	100		11/23/09 17:18	1634-04-4	
Naphthalene	ND	ug/L	400	100		11/23/09 17:18	91-20-3	
n-Propylbenzene	ND	ug/L	100	100		11/23/09 17:18	103-65-1	
Styrene	ND	ug/L	100	100		11/23/09 17:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	100	100		11/23/09 17:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	100	100		11/23/09 17:18	79-34-5	
Tetrachloroethene	**10600**	ug/L	100	100		11/23/09 17:18	127-18-4	
Tetrahydrofuran	ND	ug/L	1000	100		11/23/09 17:18	109-99-9	
Toluene	ND	ug/L	100	100		11/23/09 17:18	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	100	100		11/23/09 17:18	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	100	100		11/23/09 17:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	100	100		11/23/09 17:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	100	100		11/23/09 17:18	79-00-5	
Trichloroethene	ND	ug/L	100	100		11/23/09 17:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	100	100		11/23/09 17:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	100	100		11/23/09 17:18	96-18-4	
1,1,2-Trichlorotrifluoroethane	**1270**	ug/L	100	100		11/23/09 17:18	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	100	100		11/23/09 17:18	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	100	100		11/23/09 17:18	108-67-8	
Vinyl chloride	ND	ug/L	40.0	100		11/23/09 17:18	75-01-4	
Xylene (Total)	ND	ug/L	300	100		11/23/09 17:18	1330-20-7	
m&p-Xylene	ND	ug/L	200	100		11/23/09 17:18	1330-20-7	
o-Xylene	ND	ug/L	100	100		11/23/09 17:18	95-47-6	
Dibromofluoromethane (S)	95	%	75-125	100		11/23/09 17:18	1868-53-7	
Toluene-d8 (S)	97	%	75-125	100		11/23/09 17:18	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125	100		11/23/09 17:18	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	75-125	100		11/23/09 17:18	17060-07-0	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

Sample: DPE-3 **Lab ID: 10117287012** Collected: 11/17/09 10:15 Received: 11/18/09 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	2000	200		11/21/09 00:31	67-64-1	
Allyl chloride	ND	ug/L	800	200		11/21/09 00:31	107-05-1	
Benzene	ND	ug/L	200	200		11/21/09 00:31	71-43-2	
Bromobenzene	ND	ug/L	200	200		11/21/09 00:31	108-86-1	
Bromochloromethane	ND	ug/L	200	200		11/21/09 00:31	74-97-5	
Bromodichloromethane	ND	ug/L	200	200		11/21/09 00:31	75-27-4	
Bromoform	ND	ug/L	1600	200		11/21/09 00:31	75-25-2	
Bromomethane	ND	ug/L	800	200		11/21/09 00:31	74-83-9	
2-Butanone (MEK)	ND	ug/L	800	200		11/21/09 00:31	78-93-3	
n-Butylbenzene	ND	ug/L	200	200		11/21/09 00:31	104-51-8	
sec-Butylbenzene	ND	ug/L	200	200		11/21/09 00:31	135-98-8	
tert-Butylbenzene	ND	ug/L	200	200		11/21/09 00:31	98-06-6	
Carbon tetrachloride	ND	ug/L	800	200		11/21/09 00:31	56-23-5	
Chlorobenzene	ND	ug/L	200	200		11/21/09 00:31	108-90-7	
Chloroethane	ND	ug/L	200	200		11/21/09 00:31	75-00-3	
Chloroform	ND	ug/L	200	200		11/21/09 00:31	67-66-3	
Chloromethane	ND	ug/L	800	200		11/21/09 00:31	74-87-3	
2-Chlorotoluene	ND	ug/L	200	200		11/21/09 00:31	95-49-8	
4-Chlorotoluene	ND	ug/L	200	200		11/21/09 00:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	800	200		11/21/09 00:31	96-12-8	
Dibromochloromethane	ND	ug/L	200	200		11/21/09 00:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	200	200		11/21/09 00:31	106-93-4	
Dibromomethane	ND	ug/L	200	200		11/21/09 00:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	200	200		11/21/09 00:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	200	200		11/21/09 00:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	200	200		11/21/09 00:31	106-46-7	
Dichlorodifluoromethane	ND	ug/L	200	200		11/21/09 00:31	75-71-8	
1,1-Dichloroethane	ND	ug/L	200	200		11/21/09 00:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	200	200		11/21/09 00:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	200	200		11/21/09 00:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	200	200		11/21/09 00:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	200	200		11/21/09 00:31	156-60-5	
Dichlorofluoromethane	ND	ug/L	200	200		11/21/09 00:31	75-43-4	
1,2-Dichloropropane	ND	ug/L	200	200		11/21/09 00:31	78-87-5	
1,3-Dichloropropane	ND	ug/L	200	200		11/21/09 00:31	142-28-9	
2,2-Dichloropropane	ND	ug/L	800	200		11/21/09 00:31	594-20-7	
1,1-Dichloropropene	ND	ug/L	200	200		11/21/09 00:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	800	200		11/21/09 00:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	800	200		11/21/09 00:31	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	800	200		11/21/09 00:31	60-29-7	
Ethylbenzene	ND	ug/L	200	200		11/21/09 00:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	800	200		11/21/09 00:31	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	200	200		11/21/09 00:31	98-82-8	
p-Isopropyltoluene	ND	ug/L	200	200		11/21/09 00:31	99-87-6	
Methylene Chloride	ND	ug/L	800	200		11/21/09 00:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	800	200		11/21/09 00:31	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	200	200		11/21/09 00:31	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

Sample: DPE-3 **Lab ID: 10117287012** Collected: 11/17/09 10:15 Received: 11/18/09 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Naphthalene	ND	ug/L	800	200		11/21/09 00:31	91-20-3	
n-Propylbenzene	ND	ug/L	200	200		11/21/09 00:31	103-65-1	
Styrene	ND	ug/L	200	200		11/21/09 00:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	200	200		11/21/09 00:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	200	200		11/21/09 00:31	79-34-5	
Tetrachloroethene	**34600**	ug/L	200	200		11/21/09 00:31	127-18-4	
Tetrahydrofuran	ND	ug/L	2000	200		11/21/09 00:31	109-99-9	
Toluene	ND	ug/L	200	200		11/21/09 00:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	200	200		11/21/09 00:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	200	200		11/21/09 00:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	200	200		11/21/09 00:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	200	200		11/21/09 00:31	79-00-5	
Trichloroethene	ND	ug/L	200	200		11/21/09 00:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	200	200		11/21/09 00:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	200	200		11/21/09 00:31	96-18-4	
1,1,2-Trichlorotrifluoroethane	**1920**	ug/L	200	200		11/21/09 00:31	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	200	200		11/21/09 00:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	200	200		11/21/09 00:31	108-67-8	
Vinyl chloride	ND	ug/L	80.0	200		11/21/09 00:31	75-01-4	
Xylene (Total)	ND	ug/L	600	200		11/21/09 00:31	1330-20-7	
m&p-Xylene	ND	ug/L	400	200		11/21/09 00:31	1330-20-7	
o-Xylene	ND	ug/L	200	200		11/21/09 00:31	95-47-6	
Dibromofluoromethane (S)	107	%	75-125	200		11/21/09 00:31	1868-53-7	
Toluene-d8 (S)	96	%	75-125	200		11/21/09 00:31	2037-26-5	
4-Bromofluorobenzene (S)	96	%	75-125	200		11/21/09 00:31	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	75-125	200		11/21/09 00:31	17060-07-0	

Sample: DPE-4 **Lab ID: 10117287013** Collected: 11/17/09 10:50 Received: 11/18/09 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	500	50		11/21/09 00:09	67-64-1	
Allyl chloride	ND	ug/L	200	50		11/21/09 00:09	107-05-1	
Benzene	ND	ug/L	50.0	50		11/21/09 00:09	71-43-2	
Bromobenzene	ND	ug/L	50.0	50		11/21/09 00:09	108-86-1	
Bromochloromethane	ND	ug/L	50.0	50		11/21/09 00:09	74-97-5	
Bromodichloromethane	ND	ug/L	50.0	50		11/21/09 00:09	75-27-4	
Bromoform	ND	ug/L	400	50		11/21/09 00:09	75-25-2	
Bromomethane	ND	ug/L	200	50		11/21/09 00:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	200	50		11/21/09 00:09	78-93-3	
n-Butylbenzene	ND	ug/L	50.0	50		11/21/09 00:09	104-51-8	
sec-Butylbenzene	ND	ug/L	50.0	50		11/21/09 00:09	135-98-8	
tert-Butylbenzene	ND	ug/L	50.0	50		11/21/09 00:09	98-06-6	
Carbon tetrachloride	ND	ug/L	200	50		11/21/09 00:09	56-23-5	
Chlorobenzene	ND	ug/L	50.0	50		11/21/09 00:09	108-90-7	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

Sample: DPE-4 **Lab ID: 10117287013** Collected: 11/17/09 10:50 Received: 11/18/09 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Chloroethane	ND	ug/L	50.0	50		11/21/09 00:09	75-00-3	
Chloroform	ND	ug/L	50.0	50		11/21/09 00:09	67-66-3	
Chloromethane	ND	ug/L	200	50		11/21/09 00:09	74-87-3	
2-Chlorotoluene	ND	ug/L	50.0	50		11/21/09 00:09	95-49-8	
4-Chlorotoluene	ND	ug/L	50.0	50		11/21/09 00:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	200	50		11/21/09 00:09	96-12-8	
Dibromochloromethane	ND	ug/L	50.0	50		11/21/09 00:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	50.0	50		11/21/09 00:09	106-93-4	
Dibromomethane	ND	ug/L	50.0	50		11/21/09 00:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	50.0	50		11/21/09 00:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	50.0	50		11/21/09 00:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	50.0	50		11/21/09 00:09	106-46-7	
Dichlorodifluoromethane	ND	ug/L	50.0	50		11/21/09 00:09	75-71-8	
1,1-Dichloroethane	ND	ug/L	50.0	50		11/21/09 00:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	50.0	50		11/21/09 00:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	50		11/21/09 00:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	50.0	50		11/21/09 00:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	50.0	50		11/21/09 00:09	156-60-5	
Dichlorofluoromethane	ND	ug/L	50.0	50		11/21/09 00:09	75-43-4	
1,2-Dichloropropane	ND	ug/L	50.0	50		11/21/09 00:09	78-87-5	
1,3-Dichloropropane	ND	ug/L	50.0	50		11/21/09 00:09	142-28-9	
2,2-Dichloropropane	ND	ug/L	200	50		11/21/09 00:09	594-20-7	
1,1-Dichloropropene	ND	ug/L	50.0	50		11/21/09 00:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	200	50		11/21/09 00:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	200	50		11/21/09 00:09	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	200	50		11/21/09 00:09	60-29-7	
Ethylbenzene	ND	ug/L	50.0	50		11/21/09 00:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	200	50		11/21/09 00:09	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	50.0	50		11/21/09 00:09	98-82-8	
p-Isopropyltoluene	ND	ug/L	50.0	50		11/21/09 00:09	99-87-6	
Methylene Chloride	ND	ug/L	200	50		11/21/09 00:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	200	50		11/21/09 00:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	50.0	50		11/21/09 00:09	1634-04-4	
Naphthalene	ND	ug/L	200	50		11/21/09 00:09	91-20-3	
n-Propylbenzene	ND	ug/L	50.0	50		11/21/09 00:09	103-65-1	
Styrene	ND	ug/L	50.0	50		11/21/09 00:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	50.0	50		11/21/09 00:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	50.0	50		11/21/09 00:09	79-34-5	
Tetrachloroethene	**5040**	ug/L	50.0	50		11/21/09 00:09	127-18-4	
Tetrahydrofuran	ND	ug/L	500	50		11/21/09 00:09	109-99-9	
Toluene	ND	ug/L	50.0	50		11/21/09 00:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	50.0	50		11/21/09 00:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	50.0	50		11/21/09 00:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	50.0	50		11/21/09 00:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	50.0	50		11/21/09 00:09	79-00-5	
Trichloroethene	ND	ug/L	50.0	50		11/21/09 00:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	50.0	50		11/21/09 00:09	75-69-4	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

Sample: DPE-4 **Lab ID: 10117287013** Collected: 11/17/09 10:50 Received: 11/18/09 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
1,2,3-Trichloropropane	ND	ug/L	50.0	50		11/21/09 00:09	96-18-4	
1,1,2-Trichlorotrifluoroethane	**464**	ug/L	50.0	50		11/21/09 00:09	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	50.0	50		11/21/09 00:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	50.0	50		11/21/09 00:09	108-67-8	
Vinyl chloride	ND	ug/L	20.0	50		11/21/09 00:09	75-01-4	
Xylene (Total)	ND	ug/L	150	50		11/21/09 00:09	1330-20-7	
m&p-Xylene	ND	ug/L	100	50		11/21/09 00:09	1330-20-7	
o-Xylene	ND	ug/L	50.0	50		11/21/09 00:09	95-47-6	
Dibromofluoromethane (S)	105	%	75-125	50		11/21/09 00:09	1868-53-7	
Toluene-d8 (S)	95	%	75-125	50		11/21/09 00:09	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125	50		11/21/09 00:09	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%	75-125	50		11/21/09 00:09	17060-07-0	

Sample: DPE-5 **Lab ID: 10117287014** Collected: 11/17/09 11:00 Received: 11/18/09 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	10		11/20/09 22:18	67-64-1	
Allyl chloride	ND	ug/L	40.0	10		11/20/09 22:18	107-05-1	
Benzene	ND	ug/L	10.0	10		11/20/09 22:18	71-43-2	
Bromobenzene	ND	ug/L	10.0	10		11/20/09 22:18	108-86-1	
Bromochloromethane	ND	ug/L	10.0	10		11/20/09 22:18	74-97-5	
Bromodichloromethane	ND	ug/L	10.0	10		11/20/09 22:18	75-27-4	
Bromoform	ND	ug/L	80.0	10		11/20/09 22:18	75-25-2	
Bromomethane	ND	ug/L	40.0	10		11/20/09 22:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	40.0	10		11/20/09 22:18	78-93-3	
n-Butylbenzene	ND	ug/L	10.0	10		11/20/09 22:18	104-51-8	
sec-Butylbenzene	ND	ug/L	10.0	10		11/20/09 22:18	135-98-8	
tert-Butylbenzene	ND	ug/L	10.0	10		11/20/09 22:18	98-06-6	
Carbon tetrachloride	ND	ug/L	40.0	10		11/20/09 22:18	56-23-5	
Chlorobenzene	ND	ug/L	10.0	10		11/20/09 22:18	108-90-7	
Chloroethane	ND	ug/L	10.0	10		11/20/09 22:18	75-00-3	
Chloroform	ND	ug/L	10.0	10		11/20/09 22:18	67-66-3	
Chloromethane	ND	ug/L	40.0	10		11/20/09 22:18	74-87-3	
2-Chlorotoluene	ND	ug/L	10.0	10		11/20/09 22:18	95-49-8	
4-Chlorotoluene	ND	ug/L	10.0	10		11/20/09 22:18	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	40.0	10		11/20/09 22:18	96-12-8	
Dibromochloromethane	ND	ug/L	10.0	10		11/20/09 22:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		11/20/09 22:18	106-93-4	
Dibromomethane	ND	ug/L	10.0	10		11/20/09 22:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	10.0	10		11/20/09 22:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	10		11/20/09 22:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	10		11/20/09 22:18	106-46-7	
Dichlorodifluoromethane	ND	ug/L	10.0	10		11/20/09 22:18	75-71-8	
1,1-Dichloroethane	ND	ug/L	10.0	10		11/20/09 22:18	75-34-3	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

Sample: DPE-5 **Lab ID: 10117287014** Collected: 11/17/09 11:00 Received: 11/18/09 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
1,2-Dichloroethane	ND	ug/L	10.0	10		11/20/09 22:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	10.0	10		11/20/09 22:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	10.0	10		11/20/09 22:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	10.0	10		11/20/09 22:18	156-60-5	
Dichlorofluoromethane	ND	ug/L	10.0	10		11/20/09 22:18	75-43-4	
1,2-Dichloropropane	ND	ug/L	10.0	10		11/20/09 22:18	78-87-5	
1,3-Dichloropropane	ND	ug/L	10.0	10		11/20/09 22:18	142-28-9	
2,2-Dichloropropane	ND	ug/L	40.0	10		11/20/09 22:18	594-20-7	
1,1-Dichloropropene	ND	ug/L	10.0	10		11/20/09 22:18	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	40.0	10		11/20/09 22:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	40.0	10		11/20/09 22:18	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	40.0	10		11/20/09 22:18	60-29-7	
Ethylbenzene	ND	ug/L	10.0	10		11/20/09 22:18	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	40.0	10		11/20/09 22:18	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	10.0	10		11/20/09 22:18	98-82-8	
p-Isopropyltoluene	ND	ug/L	10.0	10		11/20/09 22:18	99-87-6	
Methylene Chloride	ND	ug/L	40.0	10		11/20/09 22:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	40.0	10		11/20/09 22:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	10		11/20/09 22:18	1634-04-4	
Naphthalene	ND	ug/L	40.0	10		11/20/09 22:18	91-20-3	
n-Propylbenzene	ND	ug/L	10.0	10		11/20/09 22:18	103-65-1	
Styrene	ND	ug/L	10.0	10		11/20/09 22:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0	10		11/20/09 22:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		11/20/09 22:18	79-34-5	
Tetrachloroethene	**1450**	ug/L	10.0	10		11/20/09 22:18	127-18-4	
Tetrahydrofuran	ND	ug/L	100	10		11/20/09 22:18	109-99-9	
Toluene	ND	ug/L	10.0	10		11/20/09 22:18	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	10		11/20/09 22:18	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	10		11/20/09 22:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	10.0	10		11/20/09 22:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	10.0	10		11/20/09 22:18	79-00-5	
Trichloroethene	ND	ug/L	10.0	10		11/20/09 22:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	10		11/20/09 22:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	10.0	10		11/20/09 22:18	96-18-4	
1,1,2-Trichlorotrifluoroethane	**498**	ug/L	10.0	10		11/20/09 22:18	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	10.0	10		11/20/09 22:18	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	10.0	10		11/20/09 22:18	108-67-8	
Vinyl chloride	ND	ug/L	4.0	10		11/20/09 22:18	75-01-4	
Xylene (Total)	ND	ug/L	30.0	10		11/20/09 22:18	1330-20-7	
m&p-Xylene	ND	ug/L	20.0	10		11/20/09 22:18	1330-20-7	
o-Xylene	ND	ug/L	10.0	10		11/20/09 22:18	95-47-6	
Dibromofluoromethane (S)	104	%	75-125	10		11/20/09 22:18	1868-53-7	
Toluene-d8 (S)	95	%	75-125	10		11/20/09 22:18	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125	10		11/20/09 22:18	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	75-125	10		11/20/09 22:18	17060-07-0	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

Sample: DPE-6 **Lab ID: 10117287015** Collected: 11/17/09 11:30 Received: 11/18/09 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/20/09 17:33	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		11/20/09 17:33	107-05-1	
Benzene	ND	ug/L	1.0	1		11/20/09 17:33	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/20/09 17:33	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/20/09 17:33	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/20/09 17:33	75-27-4	
Bromoform	ND	ug/L	8.0	1		11/20/09 17:33	75-25-2	
Bromomethane	ND	ug/L	4.0	1		11/20/09 17:33	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		11/20/09 17:33	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		11/20/09 17:33	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/20/09 17:33	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		11/20/09 17:33	98-06-6	
Carbon tetrachloride	ND	ug/L	4.0	1		11/20/09 17:33	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/20/09 17:33	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/20/09 17:33	75-00-3	
Chloroform	**1.6**	ug/L	1.0	1		11/20/09 17:33	67-66-3	
Chloromethane	ND	ug/L	4.0	1		11/20/09 17:33	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/20/09 17:33	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/20/09 17:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		11/20/09 17:33	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/20/09 17:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/20/09 17:33	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/20/09 17:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/20/09 17:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/20/09 17:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/20/09 17:33	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/20/09 17:33	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/20/09 17:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/20/09 17:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/20/09 17:33	75-35-4	
cis-1,2-Dichloroethene	**1.5**	ug/L	1.0	1		11/20/09 17:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/20/09 17:33	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		11/20/09 17:33	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/20/09 17:33	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/20/09 17:33	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		11/20/09 17:33	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/20/09 17:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		11/20/09 17:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		11/20/09 17:33	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		11/20/09 17:33	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		11/20/09 17:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		11/20/09 17:33	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/20/09 17:33	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/20/09 17:33	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		11/20/09 17:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		11/20/09 17:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/20/09 17:33	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

Sample: DPE-6 **Lab ID: 10117287015** Collected: 11/17/09 11:30 Received: 11/18/09 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Naphthalene	ND	ug/L	4.0	1		11/20/09 17:33	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		11/20/09 17:33	103-65-1	
Styrene	ND	ug/L	1.0	1		11/20/09 17:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/20/09 17:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/20/09 17:33	79-34-5	
Tetrachloroethene	**104**	ug/L	1.0	1		11/20/09 17:33	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		11/20/09 17:33	109-99-9	
Toluene	ND	ug/L	1.0	1		11/20/09 17:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/20/09 17:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/20/09 17:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/20/09 17:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/20/09 17:33	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/20/09 17:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/20/09 17:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/20/09 17:33	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		11/20/09 17:33	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/20/09 17:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/20/09 17:33	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		11/20/09 17:33	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/20/09 17:33	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/20/09 17:33	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		11/20/09 17:33	95-47-6	
Dibromofluoromethane (S)	110	%	75-125	1		11/20/09 17:33	1868-53-7	
Toluene-d8 (S)	98	%	75-125	1		11/20/09 17:33	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125	1		11/20/09 17:33	460-00-4	
1,2-Dichloroethane-d4 (S)	123	%	75-125	1		11/20/09 17:33	17060-07-0	

Sample: DPE-7 **Lab ID: 10117287016** Collected: 11/17/09 11:50 Received: 11/18/09 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/20/09 01:28	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		11/20/09 01:28	107-05-1	
Benzene	ND	ug/L	1.0	1		11/20/09 01:28	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/20/09 01:28	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/20/09 01:28	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/20/09 01:28	75-27-4	
Bromoform	ND	ug/L	8.0	1		11/20/09 01:28	75-25-2	
Bromomethane	ND	ug/L	4.0	1		11/20/09 01:28	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		11/20/09 01:28	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		11/20/09 01:28	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/20/09 01:28	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		11/20/09 01:28	98-06-6	
Carbon tetrachloride	ND	ug/L	4.0	1		11/20/09 01:28	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/20/09 01:28	108-90-7	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

Sample: DPE-7 **Lab ID: 10117287016** Collected: 11/17/09 11:50 Received: 11/18/09 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Chloroethane	ND	ug/L	1.0	1		11/20/09 01:28	75-00-3	
Chloroform	**1.1**	ug/L	1.0	1		11/20/09 01:28	67-66-3	
Chloromethane	ND	ug/L	4.0	1		11/20/09 01:28	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/20/09 01:28	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/20/09 01:28	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		11/20/09 01:28	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/20/09 01:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/20/09 01:28	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/20/09 01:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/20/09 01:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/20/09 01:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/20/09 01:28	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/20/09 01:28	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/20/09 01:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/20/09 01:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/20/09 01:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/20/09 01:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/20/09 01:28	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		11/20/09 01:28	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/20/09 01:28	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/20/09 01:28	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		11/20/09 01:28	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/20/09 01:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		11/20/09 01:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		11/20/09 01:28	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		11/20/09 01:28	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		11/20/09 01:28	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		11/20/09 01:28	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/20/09 01:28	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/20/09 01:28	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		11/20/09 01:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		11/20/09 01:28	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/20/09 01:28	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		11/20/09 01:28	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		11/20/09 01:28	103-65-1	
Styrene	ND	ug/L	1.0	1		11/20/09 01:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/20/09 01:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/20/09 01:28	79-34-5	
Tetrachloroethene	**55.2**	ug/L	1.0	1		11/20/09 01:28	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		11/20/09 01:28	109-99-9	
Toluene	ND	ug/L	1.0	1		11/20/09 01:28	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/20/09 01:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/20/09 01:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/20/09 01:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/20/09 01:28	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/20/09 01:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/20/09 01:28	75-69-4	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

Sample: DPE-7 **Lab ID: 10117287016** Collected: 11/17/09 11:50 Received: 11/18/09 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/20/09 01:28	96-18-4	
1,1,2-Trichlorotrifluoroethane	**9.8**	ug/L	1.0	1		11/20/09 01:28	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/20/09 01:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/20/09 01:28	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		11/20/09 01:28	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/20/09 01:28	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/20/09 01:28	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		11/20/09 01:28	95-47-6	
Dibromofluoromethane (S)	101	%	75-125	1		11/20/09 01:28	1868-53-7	
Toluene-d8 (S)	98	%	75-125	1		11/20/09 01:28	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125	1		11/20/09 01:28	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	75-125	1		11/20/09 01:28	17060-07-0	

Sample: DPE-8 **Lab ID: 10117287017** Collected: 11/17/09 12:30 Received: 11/18/09 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	10		11/20/09 22:41	67-64-1	
Allyl chloride	ND	ug/L	40.0	10		11/20/09 22:41	107-05-1	
Benzene	ND	ug/L	10.0	10		11/20/09 22:41	71-43-2	
Bromobenzene	ND	ug/L	10.0	10		11/20/09 22:41	108-86-1	
Bromochloromethane	ND	ug/L	10.0	10		11/20/09 22:41	74-97-5	
Bromodichloromethane	ND	ug/L	10.0	10		11/20/09 22:41	75-27-4	
Bromoform	ND	ug/L	80.0	10		11/20/09 22:41	75-25-2	
Bromomethane	ND	ug/L	40.0	10		11/20/09 22:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	40.0	10		11/20/09 22:41	78-93-3	
n-Butylbenzene	ND	ug/L	10.0	10		11/20/09 22:41	104-51-8	
sec-Butylbenzene	ND	ug/L	10.0	10		11/20/09 22:41	135-98-8	
tert-Butylbenzene	ND	ug/L	10.0	10		11/20/09 22:41	98-06-6	
Carbon tetrachloride	ND	ug/L	40.0	10		11/20/09 22:41	56-23-5	
Chlorobenzene	ND	ug/L	10.0	10		11/20/09 22:41	108-90-7	
Chloroethane	ND	ug/L	10.0	10		11/20/09 22:41	75-00-3	
Chloroform	ND	ug/L	10.0	10		11/20/09 22:41	67-66-3	
Chloromethane	ND	ug/L	40.0	10		11/20/09 22:41	74-87-3	
2-Chlorotoluene	ND	ug/L	10.0	10		11/20/09 22:41	95-49-8	
4-Chlorotoluene	ND	ug/L	10.0	10		11/20/09 22:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	40.0	10		11/20/09 22:41	96-12-8	
Dibromochloromethane	ND	ug/L	10.0	10		11/20/09 22:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		11/20/09 22:41	106-93-4	
Dibromomethane	ND	ug/L	10.0	10		11/20/09 22:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	10.0	10		11/20/09 22:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	10		11/20/09 22:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	10		11/20/09 22:41	106-46-7	
Dichlorodifluoromethane	ND	ug/L	10.0	10		11/20/09 22:41	75-71-8	
1,1-Dichloroethane	ND	ug/L	10.0	10		11/20/09 22:41	75-34-3	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

Sample: DPE-8 **Lab ID: 10117287017** Collected: 11/17/09 12:30 Received: 11/18/09 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
1,2-Dichloroethane	ND	ug/L	10.0	10		11/20/09 22:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	10.0	10		11/20/09 22:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	10.0	10		11/20/09 22:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	10.0	10		11/20/09 22:41	156-60-5	
Dichlorofluoromethane	ND	ug/L	10.0	10		11/20/09 22:41	75-43-4	
1,2-Dichloropropane	ND	ug/L	10.0	10		11/20/09 22:41	78-87-5	
1,3-Dichloropropane	ND	ug/L	10.0	10		11/20/09 22:41	142-28-9	
2,2-Dichloropropane	ND	ug/L	40.0	10		11/20/09 22:41	594-20-7	
1,1-Dichloropropene	ND	ug/L	10.0	10		11/20/09 22:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	40.0	10		11/20/09 22:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	40.0	10		11/20/09 22:41	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	40.0	10		11/20/09 22:41	60-29-7	
Ethylbenzene	ND	ug/L	10.0	10		11/20/09 22:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	40.0	10		11/20/09 22:41	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	10.0	10		11/20/09 22:41	98-82-8	
p-Isopropyltoluene	ND	ug/L	10.0	10		11/20/09 22:41	99-87-6	
Methylene Chloride	ND	ug/L	40.0	10		11/20/09 22:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	40.0	10		11/20/09 22:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	10		11/20/09 22:41	1634-04-4	
Naphthalene	ND	ug/L	40.0	10		11/20/09 22:41	91-20-3	
n-Propylbenzene	ND	ug/L	10.0	10		11/20/09 22:41	103-65-1	
Styrene	ND	ug/L	10.0	10		11/20/09 22:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0	10		11/20/09 22:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		11/20/09 22:41	79-34-5	
Tetrachloroethene	**1480**	ug/L	10.0	10		11/20/09 22:41	127-18-4	
Tetrahydrofuran	ND	ug/L	100	10		11/20/09 22:41	109-99-9	
Toluene	ND	ug/L	10.0	10		11/20/09 22:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	10		11/20/09 22:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	10		11/20/09 22:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	10.0	10		11/20/09 22:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	10.0	10		11/20/09 22:41	79-00-5	
Trichloroethene	ND	ug/L	10.0	10		11/20/09 22:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	10		11/20/09 22:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	10.0	10		11/20/09 22:41	96-18-4	
1,1,2-Trichlorotrifluoroethane	**34.2**	ug/L	10.0	10		11/20/09 22:41	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	10.0	10		11/20/09 22:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	10.0	10		11/20/09 22:41	108-67-8	
Vinyl chloride	ND	ug/L	4.0	10		11/20/09 22:41	75-01-4	
Xylene (Total)	ND	ug/L	30.0	10		11/20/09 22:41	1330-20-7	
m&p-Xylene	ND	ug/L	20.0	10		11/20/09 22:41	1330-20-7	
o-Xylene	ND	ug/L	10.0	10		11/20/09 22:41	95-47-6	
Dibromofluoromethane (S)	106	%	75-125	10		11/20/09 22:41	1868-53-7	
Toluene-d8 (S)	96	%	75-125	10		11/20/09 22:41	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125	10		11/20/09 22:41	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	75-125	10		11/20/09 22:41	17060-07-0	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

QC Batch: MSV/13470 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 10117287003, 10117287004, 10117287006, 10117287008, 10117287012, 10117287013, 10117287014

METHOD BLANK: 716731 Matrix: Water
Associated Lab Samples: 10117287003, 10117287004, 10117287006, 10117287008, 10117287012, 10117287013, 10117287014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	11/20/09 16:43	
1,1,1-Trichloroethane	ug/L	ND	1.0	11/20/09 16:43	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/20/09 16:43	
1,1,2-Trichloroethane	ug/L	ND	1.0	11/20/09 16:43	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	11/20/09 16:43	
1,1-Dichloroethane	ug/L	ND	1.0	11/20/09 16:43	
1,1-Dichloroethene	ug/L	ND	1.0	11/20/09 16:43	
1,1-Dichloropropene	ug/L	ND	1.0	11/20/09 16:43	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	11/20/09 16:43	
1,2,3-Trichloropropane	ug/L	ND	1.0	11/20/09 16:43	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	11/20/09 16:43	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	11/20/09 16:43	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	11/20/09 16:43	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/20/09 16:43	
1,2-Dichlorobenzene	ug/L	ND	1.0	11/20/09 16:43	
1,2-Dichloroethane	ug/L	ND	1.0	11/20/09 16:43	
1,2-Dichloropropane	ug/L	ND	1.0	11/20/09 16:43	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	11/20/09 16:43	
1,3-Dichlorobenzene	ug/L	ND	1.0	11/20/09 16:43	
1,3-Dichloropropane	ug/L	ND	1.0	11/20/09 16:43	
1,4-Dichlorobenzene	ug/L	ND	1.0	11/20/09 16:43	
2,2-Dichloropropane	ug/L	ND	4.0	11/20/09 16:43	
2-Butanone (MEK)	ug/L	ND	4.0	11/20/09 16:43	
2-Chlorotoluene	ug/L	ND	1.0	11/20/09 16:43	
4-Chlorotoluene	ug/L	ND	1.0	11/20/09 16:43	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	11/20/09 16:43	
Acetone	ug/L	ND	10.0	11/20/09 16:43	
Allyl chloride	ug/L	ND	4.0	11/20/09 16:43	
Benzene	ug/L	ND	1.0	11/20/09 16:43	
Bromobenzene	ug/L	ND	1.0	11/20/09 16:43	
Bromochloromethane	ug/L	ND	1.0	11/20/09 16:43	
Bromodichloromethane	ug/L	ND	1.0	11/20/09 16:43	
Bromoform	ug/L	ND	8.0	11/20/09 16:43	
Bromomethane	ug/L	ND	4.0	11/20/09 16:43	
Carbon tetrachloride	ug/L	ND	4.0	11/20/09 16:43	
Chlorobenzene	ug/L	ND	1.0	11/20/09 16:43	
Chloroethane	ug/L	ND	1.0	11/20/09 16:43	
Chloroform	ug/L	ND	1.0	11/20/09 16:43	
Chloromethane	ug/L	ND	4.0	11/20/09 16:43	
cis-1,2-Dichloroethene	ug/L	ND	1.0	11/20/09 16:43	
cis-1,3-Dichloropropene	ug/L	ND	4.0	11/20/09 16:43	
Dibromochloromethane	ug/L	ND	1.0	11/20/09 16:43	
Dibromomethane	ug/L	ND	1.0	11/20/09 16:43	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

METHOD BLANK: 716731 Matrix: Water

Associated Lab Samples: 10117287003, 10117287004, 10117287006, 10117287008, 10117287012, 10117287013, 10117287014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	11/20/09 16:43	
Dichlorofluoromethane	ug/L	ND	1.0	11/20/09 16:43	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	11/20/09 16:43	
Ethylbenzene	ug/L	ND	1.0	11/20/09 16:43	
Hexachloro-1,3-butadiene	ug/L	ND	4.0	11/20/09 16:43	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	11/20/09 16:43	
m&p-Xylene	ug/L	ND	2.0	11/20/09 16:43	
Methyl-tert-butyl ether	ug/L	ND	1.0	11/20/09 16:43	
Methylene Chloride	ug/L	ND	4.0	11/20/09 16:43	
n-Butylbenzene	ug/L	ND	1.0	11/20/09 16:43	
n-Propylbenzene	ug/L	ND	1.0	11/20/09 16:43	
Naphthalene	ug/L	ND	4.0	11/20/09 16:43	
o-Xylene	ug/L	ND	1.0	11/20/09 16:43	
p-Isopropyltoluene	ug/L	ND	1.0	11/20/09 16:43	
sec-Butylbenzene	ug/L	ND	1.0	11/20/09 16:43	
Styrene	ug/L	ND	1.0	11/20/09 16:43	
tert-Butylbenzene	ug/L	ND	1.0	11/20/09 16:43	
Tetrachloroethene	ug/L	ND	1.0	11/20/09 16:43	
Tetrahydrofuran	ug/L	ND	10.0	11/20/09 16:43	
Toluene	ug/L	ND	1.0	11/20/09 16:43	
trans-1,2-Dichloroethene	ug/L	ND	1.0	11/20/09 16:43	
trans-1,3-Dichloropropene	ug/L	ND	4.0	11/20/09 16:43	
Trichloroethene	ug/L	ND	1.0	11/20/09 16:43	
Trichlorofluoromethane	ug/L	ND	1.0	11/20/09 16:43	
Vinyl chloride	ug/L	ND	0.40	11/20/09 16:43	
Xylene (Total)	ug/L	ND	3.0	11/20/09 16:43	
1,2-Dichloroethane-d4 (S)	%	105	75-125	11/20/09 16:43	
4-Bromofluorobenzene (S)	%	102	75-125	11/20/09 16:43	
Dibromofluoromethane (S)	%	100	75-125	11/20/09 16:43	
Toluene-d8 (S)	%	99	75-125	11/20/09 16:43	

LABORATORY CONTROL SAMPLE: 716732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.5	97	75-125	
1,1,1-Trichloroethane	ug/L	50	47.8	96	75-125	
1,1,2,2-Tetrachloroethane	ug/L	50	53.3	107	75-125	
1,1,2-Trichloroethane	ug/L	50	50.3	101	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	48.2	96	70-138	
1,1-Dichloroethane	ug/L	50	47.5	95	75-125	
1,1-Dichloroethene	ug/L	50	45.8	92	69-129	
1,1-Dichloropropene	ug/L	50	48.2	96	75-126	
1,2,3-Trichlorobenzene	ug/L	50	53.9	108	75-125	
1,2,3-Trichloropropane	ug/L	50	53.2	106	72-126	
1,2,4-Trichlorobenzene	ug/L	50	52.2	104	75-125	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

LABORATORY CONTROL SAMPLE: 716732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	50	50.5	101	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	53.7	107	67-125	
1,2-Dibromoethane (EDB)	ug/L	50	52.1	104	75-125	
1,2-Dichlorobenzene	ug/L	50	49.9	100	75-125	
1,2-Dichloroethane	ug/L	50	49.5	99	75-125	
1,2-Dichloropropane	ug/L	50	48.9	98	75-125	
1,3,5-Trimethylbenzene	ug/L	50	50.8	102	75-125	
1,3-Dichlorobenzene	ug/L	50	48.6	97	75-125	
1,3-Dichloropropane	ug/L	50	51.3	103	75-125	
1,4-Dichlorobenzene	ug/L	50	49.2	98	75-125	
2,2-Dichloropropane	ug/L	50	50.6	101	48-150	
2-Butanone (MEK)	ug/L	50	52.5	105	51-134	
2-Chlorotoluene	ug/L	50	48.6	97	75-125	
4-Chlorotoluene	ug/L	50	49.4	99	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	50	59.9	120	60-125	
Acetone	ug/L	125	111	89	38-125	
Allyl chloride	ug/L	50	43.9	88	64-137	
Benzene	ug/L	50	47.2	94	75-125	
Bromobenzene	ug/L	50	49.0	98	75-125	
Bromochloromethane	ug/L	50	47.6	95	75-125	
Bromodichloromethane	ug/L	50	49.4	99	75-125	
Bromoform	ug/L	100	107	107	68-125	
Bromomethane	ug/L	50	45.2	90	47-129	
Carbon tetrachloride	ug/L	50	47.8	96	59-133	
Chlorobenzene	ug/L	50	48.1	96	75-125	
Chloroethane	ug/L	50	44.0	88	73-132	
Chloroform	ug/L	50	46.9	94	75-125	
Chloromethane	ug/L	50	46.2	92	72-125	
cis-1,2-Dichloroethene	ug/L	50	46.2	92	75-125	
cis-1,3-Dichloropropene	ug/L	50	50.9	102	75-125	
Dibromochloromethane	ug/L	50	51.5	103	75-125	
Dibromomethane	ug/L	50	48.0	96	75-125	
Dichlorodifluoromethane	ug/L	50	48.9	98	69-134	
Dichlorofluoromethane	ug/L	50	47.6	95	70-125	
Diethyl ether (Ethyl ether)	ug/L	50	48.9	98	71-125	
Ethylbenzene	ug/L	50	50.3	101	75-125	
Hexachloro-1,3-butadiene	ug/L	50	50.5	101	75-137	
Isopropylbenzene (Cumene)	ug/L	50	51.6	103	75-125	
m&p-Xylene	ug/L	100	99.2	99	75-125	
Methyl-tert-butyl ether	ug/L	50	52.5	105	75-125	
Methylene Chloride	ug/L	50	47.0	94	75-125	
n-Butylbenzene	ug/L	50	51.4	103	75-125	
n-Propylbenzene	ug/L	50	48.6	97	75-125	
Naphthalene	ug/L	50	61.6	123	72-125	
o-Xylene	ug/L	50	50.1	100	75-125	
p-Isopropyltoluene	ug/L	50	50.8	102	75-125	
sec-Butylbenzene	ug/L	50	51.1	102	75-125	
Styrene	ug/L	50	51.3	103	75-125	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

LABORATORY CONTROL SAMPLE: 716732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	50.1	100	75-125	
Tetrachloroethene	ug/L	50	48.5	97	74-125	
Tetrahydrofuran	ug/L	500	583	117	65-125	
Toluene	ug/L	50	48.0	96	75-125	
trans-1,2-Dichloroethene	ug/L	50	45.8	92	74-125	
trans-1,3-Dichloropropene	ug/L	50	53.0	106	75-125	
Trichloroethene	ug/L	50	47.8	96	75-125	
Trichlorofluoromethane	ug/L	50	47.5	95	73-134	
Vinyl chloride	ug/L	50	46.6	93	75-126	
Xylene (Total)	ug/L	150	149	99	75-125	
1,2-Dichloroethane-d4 (S)	%			103	75-125	
4-Bromofluorobenzene (S)	%			100	75-125	
Dibromofluoromethane (S)	%			98	75-125	
Toluene-d8 (S)	%			100	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 718107 718108

Parameter	Units	10117200008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	100	100	94.6	96.5	95	97	71-125	2	30	
1,1,1-Trichloroethane	ug/L	ND	100	100	99.2	97.1	99	97	75-125	2	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	100	100	104	108	104	108	75-126	4	30	
1,1,2-Trichloroethane	ug/L	ND	100	100	101	102	101	102	75-125	1	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	100	100	98.4	97.5	98	98	70-150	1	30	
1,1-Dichloroethane	ug/L	ND	100	100	97.8	96.2	98	96	75-125	2	30	
1,1-Dichloroethene	ug/L	ND	100	100	95.3	94.2	95	94	64-142	1	30	
1,1-Dichloropropene	ug/L	ND	100	100	100	95.8	100	96	75-125	4	30	
1,2,3-Trichlorobenzene	ug/L	ND	100	100	116	112	116	112	75-125	4	30	
1,2,3-Trichloropropane	ug/L	ND	100	100	101	112	101	112	72-127	10	30	
1,2,4-Trichlorobenzene	ug/L	ND	100	100	114	111	114	111	75-125	2	30	
1,2,4-Trimethylbenzene	ug/L	520	100	100	575	580	56	61	75-125	1	30	P6
1,2-Dibromo-3-chloropropane	ug/L	ND	100	100	118	114	118	114	65-125	3	30	
1,2-Dibromoethane (EDB)	ug/L	ND	100	100	103	104	103	104	75-125	1	30	
1,2-Dichlorobenzene	ug/L	ND	100	100	102	102	102	102	75-125	0	30	
1,2-Dichloroethane	ug/L	ND	100	100	116	116	116	116	75-125	1	30	
1,2-Dichloropropane	ug/L	ND	100	100	102	98.0	102	98	75-125	4	30	
1,3,5-Trimethylbenzene	ug/L	187	100	100	272	277	85	90	75-127	2	30	
1,3-Dichlorobenzene	ug/L	ND	100	100	99.3	99.6	99	100	75-125	0	30	
1,3-Dichloropropane	ug/L	ND	100	100	99.8	102	100	102	75-125	2	30	
1,4-Dichlorobenzene	ug/L	ND	100	100	99.2	100	99	100	75-125	1	30	
2,2-Dichloropropane	ug/L	ND	100	100	105	101	105	101	48-150	4	30	
2-Butanone (MEK)	ug/L	ND	100	100	97.7	106	98	106	51-134	8	30	
2-Chlorotoluene	ug/L	ND	100	100	99.0	99.4	99	99	75-125	0	30	
4-Chlorotoluene	ug/L	ND	100	100	119	119	119	119	68-127	0	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	125	135	125	135	60-135	8	30	
Acetone	ug/L	ND	250	250	198	209	79	84	30-125	5	30	
Allyl chloride	ug/L	ND	100	100	85.5	85.9	85	86	40-137	1	30	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 718107 718108

Parameter	Units	10117200008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	675	100	100	726	714	51	40	75-125	2	30	P6
Bromobenzene	ug/L	ND	100	100	100	100	100	100	75-125	0	30	
Bromochloromethane	ug/L	ND	100	100	94.4	95.8	94	96	75-125	1	30	
Bromodichloromethane	ug/L	ND	100	100	99.5	97.4	100	97	72-125	2	30	
Bromoform	ug/L	ND	200	200	205	206	102	103	51-125	1	30	
Bromomethane	ug/L	ND	100	100	101	102	101	102	47-130	1	30	
Carbon tetrachloride	ug/L	ND	100	100	97.1	95.4	97	95	61-133	2	30	
Chlorobenzene	ug/L	ND	100	100	97.2	97.3	97	97	75-125	0	30	
Chloroethane	ug/L	ND	100	100	94.4	91.1	94	91	75-132	4	30	
Chloroform	ug/L	ND	100	100	97.8	94.3	98	94	75-125	4	30	
Chloromethane	ug/L	ND	100	100	95.4	95.0	95	95	68-132	0	30	
cis-1,2-Dichloroethene	ug/L	ND	100	100	96.4	95.6	96	96	75-125	1	30	
cis-1,3-Dichloropropene	ug/L	ND	100	100	101	100	101	100	63-125	0	30	
Dibromochloromethane	ug/L	ND	100	100	98.9	99.6	99	100	62-125	1	30	
Dibromomethane	ug/L	ND	100	100	102	101	102	101	75-125	1	30	
Dichlorodifluoromethane	ug/L	ND	100	100	103	98.6	103	99	65-150	4	30	
Dichlorofluoromethane	ug/L	ND	100	100	97.3	94.2	97	94	68-127	3	30	
Diethyl ether (Ethyl ether)	ug/L	ND	100	100	96.2	98.4	96	98	71-125	2	30	
Ethylbenzene	ug/L	292	100	100	367	364	76	72	75-125	1	30	M0
Hexachloro-1,3-butadiene	ug/L	ND	100	100	108	106	108	106	75-147	2	30	
Isopropylbenzene (Cumene)	ug/L	36.2	100	100	139	137	103	101	75-125	1	30	
m&p-Xylene	ug/L	1480	200	200	1550	1540	37	33	67-125	1	30	P6
Methyl-tert-butyl ether	ug/L	ND	100	100	102	105	102	105	75-125	3	30	
Methylene Chloride	ug/L	ND	100	100	96.0	93.2	96	93	75-125	3	30	
n-Butylbenzene	ug/L	13.0	100	100	118	117	105	104	70-135	1	30	
n-Propylbenzene	ug/L	33.6	100	100	134	131	101	97	70-131	3	30	
Naphthalene	ug/L	69.1	100	100	199	202	130	133	66-127	1	30	M0
o-Xylene	ug/L	13.9	100	100	113	113	99	99	72-125	0	30	
p-Isopropyltoluene	ug/L	11.8	100	100	115	116	103	104	71-126	0	30	
sec-Butylbenzene	ug/L	6.2	100	100	111	110	105	104	75-127	1	30	
Styrene	ug/L	ND	100	100	103	102	103	102	30-134	1	30	
tert-Butylbenzene	ug/L	ND	100	100	103	102	103	102	75-125	1	30	
Tetrachloroethene	ug/L	ND	100	100	97.6	96.5	98	97	74-125	1	30	
Tetrahydrofuran	ug/L	ND	1000	1000	1160	1210	113	118	65-125	4	30	
Toluene	ug/L	ND	100	100	98.8	97.7	99	98	75-125	1	30	
trans-1,2-Dichloroethene	ug/L	ND	100	100	94.5	93.3	95	93	72-125	1	30	
trans-1,3-Dichloropropene	ug/L	ND	100	100	102	104	102	104	63-125	2	30	
Trichloroethene	ug/L	ND	100	100	99.8	97.0	100	97	58-127	3	30	
Trichlorofluoromethane	ug/L	ND	100	100	100	96.1	100	96	73-150	4	30	
Vinyl chloride	ug/L	ND	100	100	98.9	97.4	99	97	75-134	2	30	
Xylene (Total)	ug/L	1490	300	300	1670	1660	58	55	75-125	1	30	P6
1,2-Dichloroethane-d4 (S)	%						101	101	75-125			
4-Bromofluorobenzene (S)	%						103	102	75-125			
Dibromofluoromethane (S)	%						97	101	75-125			
Toluene-d8 (S)	%						101	101	75-125			

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

QC Batch: MSV/13484 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 10117287005, 10117287007, 10117287009, 10117287010, 10117287011

METHOD BLANK: 718167 Matrix: Water
Associated Lab Samples: 10117287005, 10117287007, 10117287009, 10117287010, 10117287011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	11/23/09 15:05	
1,1,1-Trichloroethane	ug/L	ND	1.0	11/23/09 15:05	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/23/09 15:05	
1,1,2-Trichloroethane	ug/L	ND	1.0	11/23/09 15:05	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	11/23/09 15:05	
1,1-Dichloroethane	ug/L	ND	1.0	11/23/09 15:05	
1,1-Dichloroethene	ug/L	ND	1.0	11/23/09 15:05	
1,1-Dichloropropene	ug/L	ND	1.0	11/23/09 15:05	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	11/23/09 15:05	
1,2,3-Trichloropropane	ug/L	ND	1.0	11/23/09 15:05	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	11/23/09 15:05	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	11/23/09 15:05	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	11/23/09 15:05	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/23/09 15:05	
1,2-Dichlorobenzene	ug/L	ND	1.0	11/23/09 15:05	
1,2-Dichloroethane	ug/L	ND	1.0	11/23/09 15:05	
1,2-Dichloropropane	ug/L	ND	1.0	11/23/09 15:05	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	11/23/09 15:05	
1,3-Dichlorobenzene	ug/L	ND	1.0	11/23/09 15:05	
1,3-Dichloropropane	ug/L	ND	1.0	11/23/09 15:05	
1,4-Dichlorobenzene	ug/L	ND	1.0	11/23/09 15:05	
2,2-Dichloropropane	ug/L	ND	4.0	11/23/09 15:05	
2-Butanone (MEK)	ug/L	ND	4.0	11/23/09 15:05	
2-Chlorotoluene	ug/L	ND	1.0	11/23/09 15:05	
4-Chlorotoluene	ug/L	ND	1.0	11/23/09 15:05	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	11/23/09 15:05	
Acetone	ug/L	ND	10.0	11/23/09 15:05	
Allyl chloride	ug/L	ND	4.0	11/23/09 15:05	
Benzene	ug/L	ND	1.0	11/23/09 15:05	
Bromobenzene	ug/L	ND	1.0	11/23/09 15:05	
Bromochloromethane	ug/L	ND	1.0	11/23/09 15:05	
Bromodichloromethane	ug/L	ND	1.0	11/23/09 15:05	
Bromoform	ug/L	ND	8.0	11/23/09 15:05	
Bromomethane	ug/L	ND	4.0	11/23/09 15:05	
Carbon tetrachloride	ug/L	ND	4.0	11/23/09 15:05	
Chlorobenzene	ug/L	ND	1.0	11/23/09 15:05	
Chloroethane	ug/L	ND	1.0	11/23/09 15:05	
Chloroform	ug/L	ND	1.0	11/23/09 15:05	
Chloromethane	ug/L	ND	4.0	11/23/09 15:05	
cis-1,2-Dichloroethene	ug/L	ND	1.0	11/23/09 15:05	
cis-1,3-Dichloropropene	ug/L	ND	4.0	11/23/09 15:05	
Dibromochloromethane	ug/L	ND	1.0	11/23/09 15:05	
Dibromomethane	ug/L	ND	1.0	11/23/09 15:05	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

METHOD BLANK: 718167 Matrix: Water

Associated Lab Samples: 10117287005, 10117287007, 10117287009, 10117287010, 10117287011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	11/23/09 15:05	
Dichlorofluoromethane	ug/L	ND	1.0	11/23/09 15:05	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	11/23/09 15:05	
Ethylbenzene	ug/L	ND	1.0	11/23/09 15:05	
Hexachloro-1,3-butadiene	ug/L	ND	4.0	11/23/09 15:05	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	11/23/09 15:05	
m&p-Xylene	ug/L	ND	2.0	11/23/09 15:05	
Methyl-tert-butyl ether	ug/L	ND	1.0	11/23/09 15:05	
Methylene Chloride	ug/L	ND	4.0	11/23/09 15:05	
n-Butylbenzene	ug/L	ND	1.0	11/23/09 15:05	
n-Propylbenzene	ug/L	ND	1.0	11/23/09 15:05	
Naphthalene	ug/L	ND	4.0	11/23/09 15:05	
o-Xylene	ug/L	ND	1.0	11/23/09 15:05	
p-Isopropyltoluene	ug/L	ND	1.0	11/23/09 15:05	
sec-Butylbenzene	ug/L	ND	1.0	11/23/09 15:05	
Styrene	ug/L	ND	1.0	11/23/09 15:05	
tert-Butylbenzene	ug/L	ND	1.0	11/23/09 15:05	
Tetrachloroethene	ug/L	ND	1.0	11/23/09 15:05	
Tetrahydrofuran	ug/L	ND	10.0	11/23/09 15:05	
Toluene	ug/L	ND	1.0	11/23/09 15:05	
trans-1,2-Dichloroethene	ug/L	ND	1.0	11/23/09 15:05	
trans-1,3-Dichloropropene	ug/L	ND	4.0	11/23/09 15:05	
Trichloroethene	ug/L	ND	1.0	11/23/09 15:05	
Trichlorofluoromethane	ug/L	ND	1.0	11/23/09 15:05	
Vinyl chloride	ug/L	ND	0.40	11/23/09 15:05	
Xylene (Total)	ug/L	ND	3.0	11/23/09 15:05	
1,2-Dichloroethane-d4 (S)	%	89	75-125	11/23/09 15:05	
4-Bromofluorobenzene (S)	%	99	75-125	11/23/09 15:05	
Dibromofluoromethane (S)	%	93	75-125	11/23/09 15:05	
Toluene-d8 (S)	%	98	75-125	11/23/09 15:05	

LABORATORY CONTROL SAMPLE: 718168

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	46.4	93	75-125	
1,1,1-Trichloroethane	ug/L	50	44.0	88	75-125	
1,1,2,2-Tetrachloroethane	ug/L	50	47.9	96	75-125	
1,1,2-Trichloroethane	ug/L	50	45.6	91	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	47.0	94	70-138	
1,1-Dichloroethane	ug/L	50	43.8	88	75-125	
1,1-Dichloroethene	ug/L	50	44.6	89	69-129	
1,1-Dichloropropene	ug/L	50	44.8	90	75-126	
1,2,3-Trichlorobenzene	ug/L	50	44.7	89	75-125	
1,2,3-Trichloropropane	ug/L	50	48.8	98	72-126	
1,2,4-Trichlorobenzene	ug/L	50	45.5	91	75-125	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

LABORATORY CONTROL SAMPLE: 718168

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	50	47.2	94	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	47.3	95	67-125	
1,2-Dibromoethane (EDB)	ug/L	50	47.9	96	75-125	
1,2-Dichlorobenzene	ug/L	50	46.7	93	75-125	
1,2-Dichloroethane	ug/L	50	41.6	83	75-125	
1,2-Dichloropropane	ug/L	50	44.8	90	75-125	
1,3,5-Trimethylbenzene	ug/L	50	47.3	95	75-125	
1,3-Dichlorobenzene	ug/L	50	46.2	92	75-125	
1,3-Dichloropropane	ug/L	50	46.5	93	75-125	
1,4-Dichlorobenzene	ug/L	50	46.2	92	75-125	
2,2-Dichloropropane	ug/L	50	42.6	85	48-150	
2-Butanone (MEK)	ug/L	50	40.4	81	51-134	
2-Chlorotoluene	ug/L	50	45.3	91	75-125	
4-Chlorotoluene	ug/L	50	46.5	93	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	50	50.6	101	60-125	
Acetone	ug/L	125	93.7	75	38-125	
Allyl chloride	ug/L	50	48.5	97	64-137	
Benzene	ug/L	50	44.3	89	75-125	
Bromobenzene	ug/L	50	47.8	96	75-125	
Bromochloromethane	ug/L	50	48.7	97	75-125	
Bromodichloromethane	ug/L	50	45.4	91	75-125	
Bromoform	ug/L	100	101	101	68-125	
Bromomethane	ug/L	50	51.4	103	47-129	
Carbon tetrachloride	ug/L	50	43.5	87	59-133	
Chlorobenzene	ug/L	50	46.7	93	75-125	
Chloroethane	ug/L	50	43.7	87	73-132	
Chloroform	ug/L	50	42.5	85	75-125	
Chloromethane	ug/L	50	43.4	87	72-125	
cis-1,2-Dichloroethene	ug/L	50	45.0	90	75-125	
cis-1,3-Dichloropropene	ug/L	50	48.1	96	75-125	
Dibromochloromethane	ug/L	50	47.3	95	75-125	
Dibromomethane	ug/L	50	38.1	76	75-125	
Dichlorodifluoromethane	ug/L	50	44.1	88	69-134	
Dichlorofluoromethane	ug/L	50	43.0	86	70-125	
Diethyl ether (Ethyl ether)	ug/L	50	44.8	90	71-125	
Ethylbenzene	ug/L	50	47.5	95	75-125	
Hexachloro-1,3-butadiene	ug/L	50	40.3	81	75-137	
Isopropylbenzene (Cumene)	ug/L	50	48.2	96	75-125	
m&p-Xylene	ug/L	100	94.2	94	75-125	
Methyl-tert-butyl ether	ug/L	50	46.8	94	75-125	
Methylene Chloride	ug/L	50	43.5	87	75-125	
n-Butylbenzene	ug/L	50	44.9	90	75-125	
n-Propylbenzene	ug/L	50	46.1	92	75-125	
Naphthalene	ug/L	50	52.3	105	72-125	
o-Xylene	ug/L	50	47.4	95	75-125	
p-Isopropyltoluene	ug/L	50	46.3	93	75-125	
sec-Butylbenzene	ug/L	50	47.1	94	75-125	
Styrene	ug/L	50	48.5	97	75-125	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

LABORATORY CONTROL SAMPLE: 718168

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	46.2	92	75-125	
Tetrachloroethene	ug/L	50	47.1	94	74-125	
Tetrahydrofuran	ug/L	500	468	94	65-125	
Toluene	ug/L	50	45.5	91	75-125	
trans-1,2-Dichloroethene	ug/L	50	44.1	88	74-125	
trans-1,3-Dichloropropene	ug/L	50	47.9	96	75-125	
Trichloroethene	ug/L	50	45.8	92	75-125	
Trichlorofluoromethane	ug/L	50	44.2	88	73-134	
Vinyl chloride	ug/L	50	45.1	90	75-126	
Xylene (Total)	ug/L	150	142	94	75-125	
1,2-Dichloroethane-d4 (S)	%			84	75-125	
4-Bromofluorobenzene (S)	%			100	75-125	
Dibromofluoromethane (S)	%			93	75-125	
Toluene-d8 (S)	%			97	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 718506 718507

Parameter	Units	10117287010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	500	500	457	450	91	90	71-125	2	30	
1,1,1-Trichloroethane	ug/L	ND	500	500	448	427	90	85	75-125	5	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	500	500	466	471	93	94	75-126	1	30	
1,1,2-Trichloroethane	ug/L	ND	500	500	451	447	90	89	75-125	1	30	
1,1,2-Trichlorotrifluoroethane	ug/L	215	500	500	656	626	88	82	70-150	5	30	
1,1-Dichloroethane	ug/L	ND	500	500	435	415	87	83	75-125	5	30	
1,1-Dichloroethene	ug/L	ND	500	500	460	422	92	84	64-142	9	30	
1,1-Dichloropropene	ug/L	ND	500	500	462	426	92	85	75-125	8	30	
1,2,3-Trichlorobenzene	ug/L	ND	500	500	477	449	95	90	75-125	6	30	
1,2,3-Trichloropropane	ug/L	ND	500	500	478	475	96	95	72-127	1	30	
1,2,4-Trichlorobenzene	ug/L	ND	500	500	476	444	95	89	75-125	7	30	
1,2,4-Trimethylbenzene	ug/L	ND	500	500	466	453	93	91	75-125	3	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	500	500	438	463	88	93	65-125	5	30	
1,2-Dibromoethane (EDB)	ug/L	ND	500	500	469	461	94	92	75-125	2	30	
1,2-Dichlorobenzene	ug/L	ND	500	500	468	449	94	90	75-125	4	30	
1,2-Dichloroethane	ug/L	ND	500	500	418	408	84	82	75-125	2	30	
1,2-Dichloropropane	ug/L	ND	500	500	460	433	92	87	75-125	6	30	
1,3,5-Trimethylbenzene	ug/L	ND	500	500	475	455	95	91	75-127	4	30	
1,3-Dichlorobenzene	ug/L	ND	500	500	464	441	93	88	75-125	5	30	
1,3-Dichloropropane	ug/L	ND	500	500	461	454	92	91	75-125	1	30	
1,4-Dichlorobenzene	ug/L	ND	500	500	455	442	91	88	75-125	3	30	
2,2-Dichloropropane	ug/L	ND	500	500	429	399	86	80	48-150	7	30	
2-Butanone (MEK)	ug/L	ND	500	500	382	384	76	77	51-134	0	30	
2-Chlorotoluene	ug/L	ND	500	500	458	441	92	88	75-125	4	30	
4-Chlorotoluene	ug/L	ND	500	500	464	447	93	89	68-127	4	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	500	500	462	479	92	96	60-135	4	30	
Acetone	ug/L	ND	1250	1250	800	807	64	65	30-125	1	30	
Allyl chloride	ug/L	ND	500	500	494	486	99	97	40-137	2	30	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 718506 718507

Parameter	Units	10117287010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	500	500	451	433	90	87	75-125	4	30	
Bromobenzene	ug/L	ND	500	500	477	466	95	93	75-125	2	30	
Bromochloromethane	ug/L	ND	500	500	472	482	94	96	75-125	2	30	
Bromodichloromethane	ug/L	ND	500	500	453	426	91	85	72-125	6	30	
Bromoform	ug/L	ND	1000	1000	949	956	95	96	51-125	1	30	
Bromomethane	ug/L	ND	500	500	519	499	104	100	47-130	4	30	
Carbon tetrachloride	ug/L	ND	500	500	444	417	89	83	61-133	6	30	
Chlorobenzene	ug/L	ND	500	500	463	452	93	90	75-125	2	30	
Chloroethane	ug/L	ND	500	500	447	431	89	86	75-132	4	30	
Chloroform	ug/L	ND	500	500	434	418	87	84	75-125	4	30	
Chloromethane	ug/L	ND	500	500	427	412	85	82	68-132	3	30	
cis-1,2-Dichloroethene	ug/L	ND	500	500	480	448	92	85	75-125	7	30	
cis-1,3-Dichloropropene	ug/L	ND	500	500	483	455	97	91	63-125	6	30	
Dibromochloromethane	ug/L	ND	500	500	465	448	93	90	62-125	4	30	
Dibromomethane	ug/L	ND	500	500	393	391	79	78	75-125	0	30	
Dichlorodifluoromethane	ug/L	ND	500	500	453	426	91	85	65-150	6	30	
Dichlorofluoromethane	ug/L	ND	500	500	431	412	86	82	68-127	4	30	
Diethyl ether (Ethyl ether)	ug/L	ND	500	500	431	431	86	86	71-125	0	30	
Ethylbenzene	ug/L	ND	500	500	475	460	95	92	75-125	3	30	
Hexachloro-1,3-butadiene	ug/L	ND	500	500	438	392	88	78	75-147	11	30	
Isopropylbenzene (Cumene)	ug/L	ND	500	500	484	467	97	93	75-125	4	30	
m&p-Xylene	ug/L	ND	1000	1000	939	913	94	91	67-125	3	30	
Methyl-tert-butyl ether	ug/L	ND	500	500	449	456	90	91	75-125	1	30	
Methylene Chloride	ug/L	ND	500	500	447	429	89	86	75-125	4	30	
n-Butylbenzene	ug/L	ND	500	500	451	428	90	86	70-135	5	30	
n-Propylbenzene	ug/L	ND	500	500	466	431	93	86	70-131	8	30	
Naphthalene	ug/L	ND	500	500	528	506	106	101	66-127	4	30	
o-Xylene	ug/L	ND	500	500	477	457	95	91	72-125	4	30	
p-Isopropyltoluene	ug/L	ND	500	500	461	440	92	88	71-126	5	30	
sec-Butylbenzene	ug/L	ND	500	500	476	456	95	91	75-127	4	30	
Styrene	ug/L	ND	500	500	477	466	95	93	30-134	2	30	
tert-Butylbenzene	ug/L	ND	500	500	455	439	91	88	75-125	4	30	
Tetrachloroethene	ug/L	3330	500	500	3480	3330	30	1	74-125	4	30	P6
Tetrahydrofuran	ug/L	ND	5000	5000	4470	4590	89	92	65-125	3	30	
Toluene	ug/L	ND	500	500	457	440	91	88	75-125	4	30	
trans-1,2-Dichloroethene	ug/L	ND	500	500	458	423	92	85	72-125	8	30	
trans-1,3-Dichloropropene	ug/L	ND	500	500	469	455	94	91	63-125	3	30	
Trichloroethene	ug/L	ND	500	500	471	439	94	88	58-127	7	30	
Trichlorofluoromethane	ug/L	ND	500	500	442	425	88	85	73-150	4	30	
Vinyl chloride	ug/L	ND	500	500	451	441	90	88	75-134	2	30	
Xylene (Total)	ug/L	ND	1500	1500	1420	1370	94	91	75-125	3	30	
1,2-Dichloroethane-d4 (S)	%						85	84	75-125			
4-Bromofluorobenzene (S)	%						100	100	75-125			
Dibromofluoromethane (S)	%						95	95	75-125			
Toluene-d8 (S)	%						97	99	75-125			

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

QC Batch: MSV/13491 Analysis Method: EPA 624
QC Batch Method: EPA 624 Analysis Description: 624 MSV
Associated Lab Samples: 10117287001, 10117287002

METHOD BLANK: 718668 Matrix: Water
Associated Lab Samples: 10117287001, 10117287002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	11/24/09 14:06	
1,1,1-Trichloroethane	ug/L	ND	1.0	11/24/09 14:06	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/24/09 14:06	
1,1,2-Trichloroethane	ug/L	ND	4.0	11/24/09 14:06	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	11/24/09 14:06	
1,1-Dichloroethane	ug/L	ND	1.0	11/24/09 14:06	
1,1-Dichloroethene	ug/L	ND	1.0	11/24/09 14:06	
1,1-Dichloropropene	ug/L	ND	1.0	11/24/09 14:06	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	11/24/09 14:06	
1,2,3-Trichloropropane	ug/L	ND	1.0	11/24/09 14:06	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	11/24/09 14:06	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	11/24/09 14:06	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	11/24/09 14:06	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/24/09 14:06	
1,2-Dichlorobenzene	ug/L	ND	1.0	11/24/09 14:06	
1,2-Dichloroethane	ug/L	ND	1.0	11/24/09 14:06	
1,2-Dichloropropane	ug/L	ND	1.0	11/24/09 14:06	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	11/24/09 14:06	
1,3-Dichlorobenzene	ug/L	ND	1.0	11/24/09 14:06	
1,3-Dichloropropane	ug/L	ND	1.0	11/24/09 14:06	
1,4-Dichlorobenzene	ug/L	ND	1.0	11/24/09 14:06	
2,2-Dichloropropane	ug/L	ND	4.0	11/24/09 14:06	
2-Butanone (MEK)	ug/L	ND	4.0	11/24/09 14:06	
2-Chloroethylvinyl ether	ug/L	ND	10.0	11/24/09 14:06	IC,SS
2-Chlorotoluene	ug/L	ND	1.0	11/24/09 14:06	
2-Hexanone	ug/L	ND	4.0	11/24/09 14:06	
2-Methylnaphthalene	ug/L	ND	5.0	11/24/09 14:06	
4-Chlorotoluene	ug/L	ND	1.0	11/24/09 14:06	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	11/24/09 14:06	
Acetone	ug/L	ND	10.0	11/24/09 14:06	
Acrolein	ug/L	ND	40.0	11/24/09 14:06	
Acrylonitrile	ug/L	ND	10.0	11/24/09 14:06	
Allyl chloride	ug/L	ND	4.0	11/24/09 14:06	
Benzene	ug/L	ND	1.0	11/24/09 14:06	
Bromobenzene	ug/L	ND	1.0	11/24/09 14:06	
Bromochloromethane	ug/L	ND	1.0	11/24/09 14:06	
Bromodichloromethane	ug/L	ND	4.0	11/24/09 14:06	
Bromoform	ug/L	ND	8.0	11/24/09 14:06	
Bromomethane	ug/L	ND	4.0	11/24/09 14:06	
Carbon disulfide	ug/L	ND	1.0	11/24/09 14:06	
Carbon tetrachloride	ug/L	ND	4.0	11/24/09 14:06	
Chlorobenzene	ug/L	ND	1.0	11/24/09 14:06	
Chloroethane	ug/L	ND	1.0	11/24/09 14:06	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

METHOD BLANK: 718668 Matrix: Water

Associated Lab Samples: 10117287001, 10117287002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroform	ug/L	ND	1.0	11/24/09 14:06	
Chloromethane	ug/L	ND	4.0	11/24/09 14:06	
Chloroprene	ug/L	ND	1.0	11/24/09 14:06	
cis-1,2-Dichloroethene	ug/L	ND	1.0	11/24/09 14:06	
cis-1,3-Dichloropropene	ug/L	ND	4.0	11/24/09 14:06	
Dibromochloromethane	ug/L	ND	1.0	11/24/09 14:06	
Dibromomethane	ug/L	ND	1.0	11/24/09 14:06	
Dichlorodifluoromethane	ug/L	ND	1.0	11/24/09 14:06	
Dichlorofluoromethane	ug/L	ND	1.0	11/24/09 14:06	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	11/24/09 14:06	
Ethylbenzene	ug/L	ND	1.0	11/24/09 14:06	
Hexachloro-1,3-butadiene	ug/L	ND	4.0	11/24/09 14:06	
Iodomethane	ug/L	ND	4.0	11/24/09 14:06	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	11/24/09 14:06	
m&p-Xylene	ug/L	ND	2.0	11/24/09 14:06	
Methyl-tert-butyl ether	ug/L	ND	1.0	11/24/09 14:06	
Methylene Chloride	ug/L	ND	4.0	11/24/09 14:06	
n-Butylbenzene	ug/L	ND	1.0	11/24/09 14:06	
n-Propylbenzene	ug/L	ND	1.0	11/24/09 14:06	
Naphthalene	ug/L	ND	4.0	11/24/09 14:06	
o-Xylene	ug/L	ND	1.0	11/24/09 14:06	
p-Isopropyltoluene	ug/L	ND	1.0	11/24/09 14:06	
sec-Butylbenzene	ug/L	ND	1.0	11/24/09 14:06	
Styrene	ug/L	ND	1.0	11/24/09 14:06	
tert-Butylbenzene	ug/L	ND	1.0	11/24/09 14:06	
Tetrachloroethene	ug/L	ND	1.0	11/24/09 14:06	
Tetrahydrofuran	ug/L	ND	10.0	11/24/09 14:06	
Toluene	ug/L	ND	1.0	11/24/09 14:06	
trans-1,2-Dichloroethene	ug/L	ND	1.0	11/24/09 14:06	
trans-1,3-Dichloropropene	ug/L	ND	4.0	11/24/09 14:06	
Trichloroethene	ug/L	ND	1.0	11/24/09 14:06	
Trichlorofluoromethane	ug/L	ND	4.0	11/24/09 14:06	
Vinyl acetate	ug/L	ND	20.0	11/24/09 14:06	
Vinyl chloride	ug/L	ND	0.40	11/24/09 14:06	
Xylene (Total)	ug/L	ND	3.0	11/24/09 14:06	
1,2-Dichloroethane-d4 (S)	%	94	75-125	11/24/09 14:06	
4-Bromofluorobenzene (S)	%	101	75-125	11/24/09 14:06	
Dibromofluoromethane (S)	%	96	75-125	11/24/09 14:06	
Toluene-d8 (S)	%	98	75-125	11/24/09 14:06	

LABORATORY CONTROL SAMPLE: 718669

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.4	107	75-129	
1,1,1-Trichloroethane	ug/L	50	50.8	102	73-144	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

LABORATORY CONTROL SAMPLE: 718669

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	50	50.7	101	75-125	
1,1,2-Trichloroethane	ug/L	50	49.6	99	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	56.5	113	75-143	
1,1-Dichloroethane	ug/L	50	52.1	104	75-135	
1,1-Dichloroethene	ug/L	50	54.4	109	75-133	
1,1-Dichloropropene	ug/L	50	55.2	110	75-131	
1,2,3-Trichlorobenzene	ug/L	50	55.7	111	73-141	
1,2,3-Trichloropropane	ug/L	50	49.4	99	75-126	
1,2,4-Trichlorobenzene	ug/L	50	57.8	116	70-148	
1,2,4-Trimethylbenzene	ug/L	50	55.7	111	75-141	
1,2-Dibromo-3-chloropropane	ug/L	50	51.5	103	64-135	
1,2-Dibromoethane (EDB)	ug/L	50	52.4	105	75-125	
1,2-Dichlorobenzene	ug/L	50	52.8	106	75-125	
1,2-Dichloroethane	ug/L	50	49.3	99	75-136	
1,2-Dichloropropane	ug/L	50	51.2	102	75-130	
1,3,5-Trimethylbenzene	ug/L	50	55.3	111	75-141	
1,3-Dichlorobenzene	ug/L	50	53.7	107	75-125	
1,3-Dichloropropane	ug/L	50	51.9	104	75-125	
1,4-Dichlorobenzene	ug/L	50	52.4	105	75-125	
2,2-Dichloropropane	ug/L	50	57.9	116	50-150	
2-Butanone (MEK)	ug/L	50	58.2	116	58-138	
2-Chloroethylvinyl ether	ug/L	125	1370	1094	50-150	CH,E,IC,L3, SS
2-Chlorotoluene	ug/L	50	53.9	108	75-132	
2-Hexanone	ug/L	50	57.4	115	65-135	
2-Methylnaphthalene	ug/L	50	59.9	120	62-150	
4-Chlorotoluene	ug/L	50	53.8	108	75-135	
4-Methyl-2-pentanone (MIBK)	ug/L	50	51.4	103	69-137	
Acetone	ug/L	125	170	136	52-141	
Acrolein	ug/L	500	589	118	50-150	
Acrylonitrile	ug/L	500	513	103	75-130	
Allyl chloride	ug/L	50	49.9	100	68-150	
Benzene	ug/L	50	52.6	105	75-125	
Bromobenzene	ug/L	50	53.3	107	75-125	
Bromochloromethane	ug/L	50	51.6	103	75-129	
Bromodichloromethane	ug/L	50	50.0	100	75-142	
Bromoform	ug/L	100	105	105	66-135	
Bromomethane	ug/L	50	53.2	106	57-150	
Carbon disulfide	ug/L	50	47.7	95	65-132	
Carbon tetrachloride	ug/L	50	52.7	105	75-148	
Chlorobenzene	ug/L	50	51.7	103	75-125	
Chloroethane	ug/L	50	50.2	100	66-142	
Chloroform	ug/L	50	48.9	98	75-131	
Chloromethane	ug/L	50	46.6	93	52-147	
Chloroprene	ug/L	50	57.2	114	71-147	
cis-1,2-Dichloroethene	ug/L	50	52.4	105	75-126	
cis-1,3-Dichloropropene	ug/L	50	56.8	114	69-150	
Dibromochloromethane	ug/L	50	52.0	104	73-138	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

LABORATORY CONTROL SAMPLE: 718669

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromomethane	ug/L	50	49.3	99	75-127	
Dichlorodifluoromethane	ug/L	50	44.6	89	50-150	
Dichlorofluoromethane	ug/L	50	50.3	101	75-129	
Diethyl ether (Ethyl ether)	ug/L	50	54.0	108	75-126	
Ethylbenzene	ug/L	50	54.4	109	75-132	
Hexachloro-1,3-butadiene	ug/L	50	59.7	119	75-129	
Iodomethane	ug/L	50	54.8	110	73-150	
Isopropylbenzene (Cumene)	ug/L	50	54.3	109	75-142	
m&p-Xylene	ug/L	100	109	109	75-131	
Methyl-tert-butyl ether	ug/L	50	52.0	104	75-130	
Methylene Chloride	ug/L	50	49.5	99	71-125	
n-Butylbenzene	ug/L	50	59.3	119	70-148	
n-Propylbenzene	ug/L	50	56.6	113	75-136	
Naphthalene	ug/L	50	56.5	113	69-145	
o-Xylene	ug/L	50	53.4	107	75-129	
p-Isopropyltoluene	ug/L	50	58.4	117	75-132	
sec-Butylbenzene	ug/L	50	56.6	113	75-136	
Styrene	ug/L	50	54.5	109	75-125	
tert-Butylbenzene	ug/L	50	54.1	108	75-135	
Tetrachloroethene	ug/L	50	54.3	109	75-125	
Tetrahydrofuran	ug/L	500	505	101	63-144	
Toluene	ug/L	50	52.9	106	75-125	
trans-1,2-Dichloroethene	ug/L	50	53.6	107	72-135	
trans-1,3-Dichloropropene	ug/L	50	55.2	110	62-150	
Trichloroethene	ug/L	50	53.0	106	75-125	
Trichlorofluoromethane	ug/L	50	47.7	95	67-150	
Vinyl acetate	ug/L	50	61.4	123	55-150	
Vinyl chloride	ug/L	50	53.5	107	63-147	
Xylene (Total)	ug/L	150	163	109	75-130	
1,2-Dichloroethane-d4 (S)	%			94	75-125	
4-Bromofluorobenzene (S)	%			99	75-125	
Dibromofluoromethane (S)	%			96	75-125	
Toluene-d8 (S)	%			101	75-125	

MATRIX SPIKE SAMPLE: 719294

Parameter	Units	10117258001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	21.1	105	70-136	
1,1,1-Trichloroethane	ug/L	ND	20	21.8	109	68-150	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	19.8	99	75-125	
1,1,2-Trichloroethane	ug/L	ND	20	19.7	98	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	27.1	135	75-150	
1,1-Dichloroethane	ug/L	ND	20	21.8	109	67-143	
1,1-Dichloroethene	ug/L	ND	20	24.7	124	75-147	
1,1-Dichloropropene	ug/L	ND	20	23.3	117	75-141	
1,2,3-Trichlorobenzene	ug/L	ND	20	22.0	110	71-141	
1,2,3-Trichloropropane	ug/L	ND	20	19.5	97	75-128	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

MATRIX SPIKE SAMPLE: 719294

Parameter	Units	10117258001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	20	23.0	115	61-148	
1,2,4-Trimethylbenzene	ug/L	ND	20	23.1	116	65-145	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	19.3	97	64-135	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20.3	102	75-126	
1,2-Dichlorobenzene	ug/L	ND	20	20.9	104	75-127	
1,2-Dichloroethane	ug/L	ND	20	19.7	98	70-138	
1,2-Dichloropropane	ug/L	ND	20	20.4	102	75-130	
1,3,5-Trimethylbenzene	ug/L	ND	20	23.1	116	61-150	
1,3-Dichlorobenzene	ug/L	ND	20	21.9	110	75-126	
1,3-Dichloropropane	ug/L	ND	20	20.4	102	75-125	
1,4-Dichlorobenzene	ug/L	ND	20	21.6	108	75-125	
2,2-Dichloropropane	ug/L	ND	20	25.0	125	50-150	
2-Butanone (MEK)	ug/L	ND	20	17.8	89	50-141	
2-Chloroethylvinyl ether	ug/L	ND	50	79.6	159	50-150	CH,IC,M0,SS
2-Chlorotoluene	ug/L	ND	20	22.6	113	75-137	
2-Hexanone	ug/L	ND	20	19.4	97	66-135	
2-Methylnaphthalene	ug/L	ND	20	23.0	115	62-150	
4-Chlorotoluene	ug/L	ND	20	22.3	111	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	19.3	96	62-142	
Acetone	ug/L	ND	50	44.0	88	50-150	
Acrolein	ug/L	ND	200	223	112	50-150	
Acrylonitrile	ug/L	ND	200	204	102	70-135	
Allyl chloride	ug/L	ND	20	22.7	114	50-150	
Benzene	ug/L	ND	20	22.1	111	75-125	
Bromobenzene	ug/L	ND	20	21.7	108	75-125	
Bromochloromethane	ug/L	ND	20	20.7	103	73-137	
Bromodichloromethane	ug/L	ND	20	19.9	100	70-142	
Bromoform	ug/L	ND	40	38.5	96	55-135	
Bromomethane	ug/L	ND	20	24.9	124	50-150	
Carbon disulfide	ug/L	ND	20	22.2	111	50-150	
Carbon tetrachloride	ug/L	ND	20	22.8	114	64-150	
Chlorobenzene	ug/L	ND	20	21.2	106	75-125	
Chloroethane	ug/L	ND	20	23.3	116	59-150	
Chloroform	ug/L	ND	20	20.5	102	75-132	
Chloromethane	ug/L	ND	20	23.0	104	52-150	
Chloroprene	ug/L	ND	20	24.7	123	54-150	
cis-1,2-Dichloroethene	ug/L	ND	20	22.1	110	64-144	
cis-1,3-Dichloropropene	ug/L	ND	20	21.9	110	56-150	
Dibromochloromethane	ug/L	ND	20	19.7	99	60-138	
Dibromomethane	ug/L	ND	20	18.9	95	75-127	
Dichlorodifluoromethane	ug/L	ND	20	22.1	110	50-150	
Dichlorofluoromethane	ug/L	ND	20	22.0	110	74-142	
Diethyl ether (Ethyl ether)	ug/L	ND	20	20.9	105	75-127	
Ethylbenzene	ug/L	ND	20	22.3	112	75-134	
Hexachloro-1,3-butadiene	ug/L	ND	20	28.3	142	63-150	
Iodomethane	ug/L	ND	20	23.4	117	50-150	
Isopropylbenzene (Cumene)	ug/L	ND	20	22.9	114	69-147	
m&p-Xylene	ug/L	ND	40	45.7	114	75-133	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

MATRIX SPIKE SAMPLE: 719294

Parameter	Units	10117258001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Methyl-tert-butyl ether	ug/L	ND	20	20.4	102	73-131	
Methylene Chloride	ug/L	ND	20	21.6	108	68-126	
n-Butylbenzene	ug/L	ND	20	25.6	128	59-150	
n-Propylbenzene	ug/L	ND	20	24.3	122	72-143	
Naphthalene	ug/L	ND	20	21.0	105	57-148	
o-Xylene	ug/L	ND	20	22.0	110	75-131	
p-Isopropyltoluene	ug/L	ND	20	24.7	123	75-137	
sec-Butylbenzene	ug/L	ND	20	24.8	124	75-144	
Styrene	ug/L	ND	20	22.1	110	75-134	
tert-Butylbenzene	ug/L	ND	20	23.0	115	68-150	
Tetrachloroethene	ug/L	ND	20	23.3	116	75-130	
Tetrahydrofuran	ug/L	ND	200	203	102	60-148	
Toluene	ug/L	ND	20	22.6	113	75-125	
trans-1,2-Dichloroethene	ug/L	ND	20	23.2	116	75-145	
trans-1,3-Dichloropropene	ug/L	ND	20	21.9	109	50-150	
Trichloroethene	ug/L	ND	20	22.4	112	73-132	
Trichlorofluoromethane	ug/L	ND	20	22.7	114	67-150	
Vinyl acetate	ug/L	ND	20	24.5	123	50-150	
Vinyl chloride	ug/L	ND	20	24.7	123	63-150	
Xylene (Total)	ug/L	ND	60	67.7	113	72-138	
1,2-Dichloroethane-d4 (S)	%				93	75-125	
4-Bromofluorobenzene (S)	%				102	75-125	
Dibromofluoromethane (S)	%				96	75-125	
Toluene-d8 (S)	%				101	75-125	

SAMPLE DUPLICATE: 719295

Parameter	Units	10117287002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,2-Trichloroethane	ug/L	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	ND		30	
1,1-Dichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethene	ug/L	ND	ND		30	
1,1-Dichloropropene	ug/L	ND	ND		30	
1,2,3-Trichlorobenzene	ug/L	ND	ND		30	
1,2,3-Trichloropropane	ug/L	ND	ND		30	
1,2,4-Trichlorobenzene	ug/L	ND	ND		30	
1,2,4-Trimethylbenzene	ug/L	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		30	
1,2-Dichlorobenzene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L	ND	ND		30	
1,2-Dichloropropane	ug/L	ND	ND		30	
1,3,5-Trimethylbenzene	ug/L	ND	ND		30	
1,3-Dichlorobenzene	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

SAMPLE DUPLICATE: 719295

Parameter	Units	10117287002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,3-Dichloropropane	ug/L	ND	ND		30	
1,4-Dichlorobenzene	ug/L	ND	ND		30	
2,2-Dichloropropane	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	ND	ND		30	
2-Chloroethylvinyl ether	ug/L	ND	ND		30	IC,SS
2-Chlorotoluene	ug/L	ND	ND		30	
2-Hexanone	ug/L	ND	ND		30	
2-Methylnaphthalene	ug/L	ND	ND		30	
4-Chlorotoluene	ug/L	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	
Acetone	ug/L	ND	ND		30	
Acrolein	ug/L	ND	ND		30	
Acrylonitrile	ug/L	ND	ND		30	
Allyl chloride	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Bromobenzene	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	
Carbon disulfide	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroethane	ug/L	ND	ND		30	
Chloroform	ug/L	ND	ND		30	
Chloromethane	ug/L	ND	ND		30	
Chloroprene	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	ND	ND		30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Dichlorofluoromethane	ug/L	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
Iodomethane	ug/L	ND	ND		30	
Isopropylbenzene (Cumene)	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
n-Butylbenzene	ug/L	ND	ND		30	
n-Propylbenzene	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
sec-Butylbenzene	ug/L	ND	ND		30	
Styrene	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

SAMPLE DUPLICATE: 719295

Parameter	Units	10117287002 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Butylbenzene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	ND	ND		30	
Tetrahydrofuran	ug/L	ND	7J		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl acetate	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	103	104	1		
4-Bromofluorobenzene (S)	%	100	99	1		
Dibromofluoromethane (S)	%	103	103	0		
Toluene-d8 (S)	%	95	97	1		

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

QC Batch: MSV/13471 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 10117287016

METHOD BLANK: 716742 Matrix: Water
Associated Lab Samples: 10117287016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	11/20/09 01:05	
1,1,1-Trichloroethane	ug/L	ND	1.0	11/20/09 01:05	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/20/09 01:05	
1,1,2-Trichloroethane	ug/L	ND	1.0	11/20/09 01:05	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	11/20/09 01:05	
1,1-Dichloroethane	ug/L	ND	1.0	11/20/09 01:05	
1,1-Dichloroethene	ug/L	ND	1.0	11/20/09 01:05	
1,1-Dichloropropene	ug/L	ND	1.0	11/20/09 01:05	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	11/20/09 01:05	
1,2,3-Trichloropropane	ug/L	ND	1.0	11/20/09 01:05	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	11/20/09 01:05	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	11/20/09 01:05	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	11/20/09 01:05	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/20/09 01:05	
1,2-Dichlorobenzene	ug/L	ND	1.0	11/20/09 01:05	
1,2-Dichloroethane	ug/L	ND	1.0	11/20/09 01:05	
1,2-Dichloropropane	ug/L	ND	1.0	11/20/09 01:05	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	11/20/09 01:05	
1,3-Dichlorobenzene	ug/L	ND	1.0	11/20/09 01:05	
1,3-Dichloropropane	ug/L	ND	1.0	11/20/09 01:05	
1,4-Dichlorobenzene	ug/L	ND	1.0	11/20/09 01:05	
2,2-Dichloropropane	ug/L	ND	4.0	11/20/09 01:05	
2-Butanone (MEK)	ug/L	ND	4.0	11/20/09 01:05	
2-Chlorotoluene	ug/L	ND	1.0	11/20/09 01:05	
4-Chlorotoluene	ug/L	ND	1.0	11/20/09 01:05	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	11/20/09 01:05	
Acetone	ug/L	ND	10.0	11/20/09 01:05	
Allyl chloride	ug/L	ND	4.0	11/20/09 01:05	
Benzene	ug/L	ND	1.0	11/20/09 01:05	
Bromobenzene	ug/L	ND	1.0	11/20/09 01:05	
Bromochloromethane	ug/L	ND	1.0	11/20/09 01:05	
Bromodichloromethane	ug/L	ND	1.0	11/20/09 01:05	
Bromoform	ug/L	ND	8.0	11/20/09 01:05	
Bromomethane	ug/L	ND	4.0	11/20/09 01:05	
Carbon tetrachloride	ug/L	ND	4.0	11/20/09 01:05	
Chlorobenzene	ug/L	ND	1.0	11/20/09 01:05	
Chloroethane	ug/L	ND	1.0	11/20/09 01:05	
Chloroform	ug/L	ND	1.0	11/20/09 01:05	
Chloromethane	ug/L	ND	4.0	11/20/09 01:05	
cis-1,2-Dichloroethene	ug/L	ND	1.0	11/20/09 01:05	
cis-1,3-Dichloropropene	ug/L	ND	4.0	11/20/09 01:05	
Dibromochloromethane	ug/L	ND	1.0	11/20/09 01:05	
Dibromomethane	ug/L	ND	1.0	11/20/09 01:05	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

METHOD BLANK: 716742 Matrix: Water

Associated Lab Samples: 10117287016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	11/20/09 01:05	
Dichlorofluoromethane	ug/L	ND	1.0	11/20/09 01:05	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	11/20/09 01:05	
Ethylbenzene	ug/L	ND	1.0	11/20/09 01:05	
Hexachloro-1,3-butadiene	ug/L	ND	4.0	11/20/09 01:05	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	11/20/09 01:05	
m&p-Xylene	ug/L	ND	2.0	11/20/09 01:05	
Methyl-tert-butyl ether	ug/L	ND	1.0	11/20/09 01:05	
Methylene Chloride	ug/L	ND	4.0	11/20/09 01:05	
n-Butylbenzene	ug/L	ND	1.0	11/20/09 01:05	
n-Propylbenzene	ug/L	ND	1.0	11/20/09 01:05	
Naphthalene	ug/L	ND	4.0	11/20/09 01:05	
o-Xylene	ug/L	ND	1.0	11/20/09 01:05	
p-Isopropyltoluene	ug/L	ND	1.0	11/20/09 01:05	
sec-Butylbenzene	ug/L	ND	1.0	11/20/09 01:05	
Styrene	ug/L	ND	1.0	11/20/09 01:05	
tert-Butylbenzene	ug/L	ND	1.0	11/20/09 01:05	
Tetrachloroethene	ug/L	ND	1.0	11/20/09 01:05	
Tetrahydrofuran	ug/L	ND	10.0	11/20/09 01:05	
Toluene	ug/L	ND	1.0	11/20/09 01:05	
trans-1,2-Dichloroethene	ug/L	ND	1.0	11/20/09 01:05	
trans-1,3-Dichloropropene	ug/L	ND	4.0	11/20/09 01:05	
Trichloroethene	ug/L	ND	1.0	11/20/09 01:05	
Trichlorofluoromethane	ug/L	ND	1.0	11/20/09 01:05	
Vinyl chloride	ug/L	ND	0.40	11/20/09 01:05	
Xylene (Total)	ug/L	ND	3.0	11/20/09 01:05	
1,2-Dichloroethane-d4 (S)	%	102	75-125	11/20/09 01:05	
4-Bromofluorobenzene (S)	%	100	75-125	11/20/09 01:05	
Dibromofluoromethane (S)	%	103	75-125	11/20/09 01:05	
Toluene-d8 (S)	%	99	75-125	11/20/09 01:05	

LABORATORY CONTROL SAMPLE: 716743

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	45.1	90	75-125	
1,1,1-Trichloroethane	ug/L	50	45.2	90	75-125	
1,1,2,2-Tetrachloroethane	ug/L	50	47.5	95	75-125	
1,1,2-Trichloroethane	ug/L	50	45.4	91	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	41.2	82	70-138	
1,1-Dichloroethane	ug/L	50	45.0	90	75-125	
1,1-Dichloroethene	ug/L	50	43.8	88	69-129	
1,1-Dichloropropene	ug/L	50	45.4	91	75-126	
1,2,3-Trichlorobenzene	ug/L	50	50.0	100	75-125	
1,2,3-Trichloropropane	ug/L	50	47.4	95	72-126	
1,2,4-Trichlorobenzene	ug/L	50	49.4	99	75-125	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

LABORATORY CONTROL SAMPLE: 716743

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	50	48.6	97	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	46.8	94	67-125	
1,2-Dibromoethane (EDB)	ug/L	50	47.2	94	75-125	
1,2-Dichlorobenzene	ug/L	50	46.7	93	75-125	
1,2-Dichloroethane	ug/L	50	45.4	91	75-125	
1,2-Dichloropropane	ug/L	50	45.4	91	75-125	
1,3,5-Trimethylbenzene	ug/L	50	48.3	97	75-125	
1,3-Dichlorobenzene	ug/L	50	47.1	94	75-125	
1,3-Dichloropropane	ug/L	50	47.5	95	75-125	
1,4-Dichlorobenzene	ug/L	50	46.6	93	75-125	
2,2-Dichloropropane	ug/L	50	44.9	90	48-150	
2-Butanone (MEK)	ug/L	50	48.2	96	51-134	
2-Chlorotoluene	ug/L	50	46.5	93	75-125	
4-Chlorotoluene	ug/L	50	47.8	96	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	50	50.8	102	60-125	
Acetone	ug/L	125	119	95	38-125	
Allyl chloride	ug/L	50	35.0	70	64-137	
Benzene	ug/L	50	44.9	90	75-125	
Bromobenzene	ug/L	50	46.8	94	75-125	
Bromochloromethane	ug/L	50	45.3	91	75-125	
Bromodichloromethane	ug/L	50	45.5	91	75-125	
Bromoform	ug/L	100	94.3	94	68-125	
Bromomethane	ug/L	50	41.1	82	47-129	
Carbon tetrachloride	ug/L	50	45.3	91	59-133	
Chlorobenzene	ug/L	50	45.7	91	75-125	
Chloroethane	ug/L	50	39.4	79	73-132	
Chloroform	ug/L	50	44.1	88	75-125	
Chloromethane	ug/L	50	39.8	80	72-125	
cis-1,2-Dichloroethene	ug/L	50	44.4	89	75-125	
cis-1,3-Dichloropropene	ug/L	50	46.9	94	75-125	
Dibromochloromethane	ug/L	50	47.0	94	75-125	
Dibromomethane	ug/L	50	45.5	91	75-125	
Dichlorodifluoromethane	ug/L	50	39.8	80	69-134	
Dichlorofluoromethane	ug/L	50	43.9	88	70-125	
Diethyl ether (Ethyl ether)	ug/L	50	45.3	91	71-125	
Ethylbenzene	ug/L	50	48.0	96	75-125	
Hexachloro-1,3-butadiene	ug/L	50	49.0	98	75-137	
Isopropylbenzene (Cumene)	ug/L	50	48.8	98	75-125	
m&p-Xylene	ug/L	100	94.3	94	75-125	
Methyl-tert-butyl ether	ug/L	50	46.7	93	75-125	
Methylene Chloride	ug/L	50	43.7	87	75-125	
n-Butylbenzene	ug/L	50	48.6	97	75-125	
n-Propylbenzene	ug/L	50	47.0	94	75-125	
Naphthalene	ug/L	50	54.3	109	72-125	
o-Xylene	ug/L	50	47.4	95	75-125	
p-Isopropyltoluene	ug/L	50	48.7	97	75-125	
sec-Butylbenzene	ug/L	50	49.2	98	75-125	
Styrene	ug/L	50	48.6	97	75-125	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

LABORATORY CONTROL SAMPLE: 716743

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	47.2	94	75-125	
Tetrachloroethene	ug/L	50	45.6	91	74-125	
Tetrahydrofuran	ug/L	500	490	98	65-125	
Toluene	ug/L	50	45.5	91	75-125	
trans-1,2-Dichloroethene	ug/L	50	44.7	89	74-125	
trans-1,3-Dichloropropene	ug/L	50	48.1	96	75-125	
Trichloroethene	ug/L	50	45.2	90	75-125	
Trichlorofluoromethane	ug/L	50	41.9	84	73-134	
Vinyl chloride	ug/L	50	42.7	85	75-126	
Xylene (Total)	ug/L	150	142	94	75-125	
1,2-Dichloroethane-d4 (S)	%			95	75-125	
4-Bromofluorobenzene (S)	%			101	75-125	
Dibromofluoromethane (S)	%			96	75-125	
Toluene-d8 (S)	%			101	75-125	

MATRIX SPIKE SAMPLE: 716938

Parameter	Units	10117287016 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	19.1	96	71-125	
1,1,1-Trichloroethane	ug/L	ND	20	20.9	105	75-125	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20.5	102	75-126	
1,1,2-Trichloroethane	ug/L	ND	20	19.2	96	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	9.8	20	32.9	115	70-150	
1,1-Dichloroethane	ug/L	ND	20	20.1	101	75-125	
1,1-Dichloroethene	ug/L	ND	20	21.1	105	64-142	
1,1-Dichloropropene	ug/L	ND	20	21.0	105	75-125	
1,2,3-Trichlorobenzene	ug/L	ND	20	22.1	110	75-125	
1,2,3-Trichloropropane	ug/L	ND	20	21.2	106	72-127	
1,2,4-Trichlorobenzene	ug/L	ND	20	20.9	104	75-125	
1,2,4-Trimethylbenzene	ug/L	ND	20	21.5	107	75-125	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	21.5	108	65-125	
1,2-Dibromoethane (EDB)	ug/L	ND	20	19.7	99	75-125	
1,2-Dichlorobenzene	ug/L	ND	20	20.2	101	75-125	
1,2-Dichloroethane	ug/L	ND	20	19.6	98	75-125	
1,2-Dichloropropane	ug/L	ND	20	20.1	100	75-125	
1,3,5-Trimethylbenzene	ug/L	ND	20	21.5	108	75-127	
1,3-Dichlorobenzene	ug/L	ND	20	20.4	102	75-125	
1,3-Dichloropropane	ug/L	ND	20	19.7	99	75-125	
1,4-Dichlorobenzene	ug/L	ND	20	20.3	101	75-125	
2,2-Dichloropropane	ug/L	ND	20	20.1	100	48-150	
2-Butanone (MEK)	ug/L	ND	20	17.7	89	51-134	
2-Chlorotoluene	ug/L	ND	20	20.9	104	75-125	
4-Chlorotoluene	ug/L	ND	20	20.8	104	68-127	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20.8	104	60-135	
Acetone	ug/L	ND	50	38.4	77	30-125	
Allyl chloride	ug/L	ND	20	16.3	82	40-137	
Benzene	ug/L	ND	20	19.9	100	75-125	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

MATRIX SPIKE SAMPLE: 716938

Parameter	Units	10117287016 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromobenzene	ug/L	ND	20	20.5	103	75-125	
Bromochloromethane	ug/L	ND	20	18.0	90	75-125	
Bromodichloromethane	ug/L	ND	20	20.2	101	72-125	
Bromoform	ug/L	ND	40	39.3	98	51-125	
Bromomethane	ug/L	ND	20	20.6	103	47-130	
Carbon tetrachloride	ug/L	ND	20	21.2	106	61-133	
Chlorobenzene	ug/L	ND	20	19.6	98	75-125	
Chloroethane	ug/L	ND	20	19.5	98	75-132	
Chloroform	ug/L	1.1	20	20.8	98	75-125	
Chloromethane	ug/L	ND	20	19.5	98	68-132	
cis-1,2-Dichloroethene	ug/L	ND	20	20.1	97	75-125	
cis-1,3-Dichloropropene	ug/L	ND	20	19.9	99	63-125	
Dibromochloromethane	ug/L	ND	20	19.6	98	62-125	
Dibromomethane	ug/L	ND	20	20.4	102	75-125	
Dichlorodifluoromethane	ug/L	ND	20	23.3	117	65-150	
Dichlorofluoromethane	ug/L	ND	20	20.6	103	68-127	
Diethyl ether (Ethyl ether)	ug/L	ND	20	19.7	98	71-125	
Ethylbenzene	ug/L	ND	20	20.7	104	75-125	
Hexachloro-1,3-butadiene	ug/L	ND	20	22.3	111	75-147	
Isopropylbenzene (Cumene)	ug/L	ND	20	21.3	106	75-125	
m&p-Xylene	ug/L	ND	40	41.3	103	67-125	
Methyl-tert-butyl ether	ug/L	ND	20	20.5	102	75-125	
Methylene Chloride	ug/L	ND	20	18.7	94	75-125	
n-Butylbenzene	ug/L	ND	20	21.9	110	70-135	
n-Propylbenzene	ug/L	ND	20	21.1	105	70-131	
Naphthalene	ug/L	ND	20	24.0	120	66-127	
o-Xylene	ug/L	ND	20	20.2	101	72-125	
p-Isopropyltoluene	ug/L	ND	20	21.9	110	71-126	
sec-Butylbenzene	ug/L	ND	20	22.4	112	75-127	
Styrene	ug/L	ND	20	20.4	102	30-134	
tert-Butylbenzene	ug/L	ND	20	21.5	108	75-125	
Tetrachloroethene	ug/L	55.2	20	76.4	106	74-125	
Tetrahydrofuran	ug/L	ND	200	211	105	65-125	
Toluene	ug/L	ND	20	20.0	100	75-125	
trans-1,2-Dichloroethene	ug/L	ND	20	21.0	105	72-125	
trans-1,3-Dichloropropene	ug/L	ND	20	19.8	99	63-125	
Trichloroethene	ug/L	ND	20	20.8	101	58-127	
Trichlorofluoromethane	ug/L	ND	20	22.2	111	73-150	
Vinyl chloride	ug/L	ND	20	21.7	108	75-134	
Xylene (Total)	ug/L	ND	60	61.5	102	75-125	
1,2-Dichloroethane-d4 (S)	%				97	75-125	
4-Bromofluorobenzene (S)	%				102	75-125	
Dibromofluoromethane (S)	%				98	75-125	
Toluene-d8 (S)	%				98	75-125	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

SAMPLE DUPLICATE: 716939

Parameter	Units	10117295004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,2-Trichloroethane	ug/L	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	ND		30	
1,1-Dichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethene	ug/L	ND	ND		30	
1,1-Dichloropropene	ug/L	ND	ND		30	
1,2,3-Trichlorobenzene	ug/L	ND	ND		30	
1,2,3-Trichloropropane	ug/L	ND	ND		30	
1,2,4-Trichlorobenzene	ug/L	ND	ND		30	
1,2,4-Trimethylbenzene	ug/L	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		30	
1,2-Dichlorobenzene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L	ND	ND		30	
1,2-Dichloropropane	ug/L	ND	ND		30	
1,3,5-Trimethylbenzene	ug/L	ND	ND		30	
1,3-Dichlorobenzene	ug/L	ND	ND		30	
1,3-Dichloropropane	ug/L	ND	ND		30	
1,4-Dichlorobenzene	ug/L	ND	ND		30	
2,2-Dichloropropane	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	ND	ND		30	
2-Chlorotoluene	ug/L	ND	ND		30	
4-Chlorotoluene	ug/L	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	
Acetone	ug/L	ND	ND		30	
Allyl chloride	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Bromobenzene	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroethane	ug/L	ND	ND		30	
Chloroform	ug/L	ND	ND		30	
Chloromethane	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	ND	ND		30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Dichlorofluoromethane	ug/L	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

SAMPLE DUPLICATE: 716939

Parameter	Units	10117295004 Result	Dup Result	RPD	Max RPD	Qualifiers
Isopropylbenzene (Cumene)	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
n-Butylbenzene	ug/L	ND	ND		30	
n-Propylbenzene	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
sec-Butylbenzene	ug/L	ND	ND		30	
Styrene	ug/L	ND	ND		30	
tert-Butylbenzene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	ND	ND		30	
Tetrahydrofuran	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	102	101	1		
4-Bromofluorobenzene (S)	%	103	100	3		
Dibromofluoromethane (S)	%	103	100	3		
Toluene-d8 (S)	%	97	97	1		

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

QC Batch: MSV/13474 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 10117287015, 10117287017

METHOD BLANK: 717281 Matrix: Water
Associated Lab Samples: 10117287015, 10117287017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	11/20/09 15:21	
1,1,1-Trichloroethane	ug/L	ND	1.0	11/20/09 15:21	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/20/09 15:21	
1,1,2-Trichloroethane	ug/L	ND	1.0	11/20/09 15:21	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	11/20/09 15:21	
1,1-Dichloroethane	ug/L	ND	1.0	11/20/09 15:21	
1,1-Dichloroethene	ug/L	ND	1.0	11/20/09 15:21	
1,1-Dichloropropene	ug/L	ND	1.0	11/20/09 15:21	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	11/20/09 15:21	
1,2,3-Trichloropropane	ug/L	ND	1.0	11/20/09 15:21	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	11/20/09 15:21	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	11/20/09 15:21	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	11/20/09 15:21	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/20/09 15:21	
1,2-Dichlorobenzene	ug/L	ND	1.0	11/20/09 15:21	
1,2-Dichloroethane	ug/L	ND	1.0	11/20/09 15:21	
1,2-Dichloropropane	ug/L	ND	1.0	11/20/09 15:21	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	11/20/09 15:21	
1,3-Dichlorobenzene	ug/L	ND	1.0	11/20/09 15:21	
1,3-Dichloropropane	ug/L	ND	1.0	11/20/09 15:21	
1,4-Dichlorobenzene	ug/L	ND	1.0	11/20/09 15:21	
2,2-Dichloropropane	ug/L	ND	4.0	11/20/09 15:21	
2-Butanone (MEK)	ug/L	ND	4.0	11/20/09 15:21	
2-Chlorotoluene	ug/L	ND	1.0	11/20/09 15:21	
4-Chlorotoluene	ug/L	ND	1.0	11/20/09 15:21	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	11/20/09 15:21	
Acetone	ug/L	ND	10.0	11/20/09 15:21	
Allyl chloride	ug/L	ND	4.0	11/20/09 15:21	
Benzene	ug/L	ND	1.0	11/20/09 15:21	
Bromobenzene	ug/L	ND	1.0	11/20/09 15:21	
Bromochloromethane	ug/L	ND	1.0	11/20/09 15:21	
Bromodichloromethane	ug/L	ND	1.0	11/20/09 15:21	
Bromoform	ug/L	ND	8.0	11/20/09 15:21	
Bromomethane	ug/L	ND	4.0	11/20/09 15:21	CL
Carbon tetrachloride	ug/L	ND	4.0	11/20/09 15:21	
Chlorobenzene	ug/L	ND	1.0	11/20/09 15:21	
Chloroethane	ug/L	ND	1.0	11/20/09 15:21	
Chloroform	ug/L	ND	1.0	11/20/09 15:21	
Chloromethane	ug/L	ND	4.0	11/20/09 15:21	
cis-1,2-Dichloroethene	ug/L	ND	1.0	11/20/09 15:21	
cis-1,3-Dichloropropene	ug/L	ND	4.0	11/20/09 15:21	
Dibromochloromethane	ug/L	ND	1.0	11/20/09 15:21	
Dibromomethane	ug/L	ND	1.0	11/20/09 15:21	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

METHOD BLANK: 717281 Matrix: Water

Associated Lab Samples: 10117287015, 10117287017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	11/20/09 15:21	
Dichlorofluoromethane	ug/L	ND	1.0	11/20/09 15:21	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	11/20/09 15:21	
Ethylbenzene	ug/L	ND	1.0	11/20/09 15:21	
Hexachloro-1,3-butadiene	ug/L	ND	4.0	11/20/09 15:21	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	11/20/09 15:21	
m&p-Xylene	ug/L	ND	2.0	11/20/09 15:21	
Methyl-tert-butyl ether	ug/L	ND	1.0	11/20/09 15:21	
Methylene Chloride	ug/L	ND	4.0	11/20/09 15:21	
n-Butylbenzene	ug/L	ND	1.0	11/20/09 15:21	
n-Propylbenzene	ug/L	ND	1.0	11/20/09 15:21	
Naphthalene	ug/L	ND	4.0	11/20/09 15:21	
o-Xylene	ug/L	ND	1.0	11/20/09 15:21	
p-Isopropyltoluene	ug/L	ND	1.0	11/20/09 15:21	
sec-Butylbenzene	ug/L	ND	1.0	11/20/09 15:21	
Styrene	ug/L	ND	1.0	11/20/09 15:21	
tert-Butylbenzene	ug/L	ND	1.0	11/20/09 15:21	
Tetrachloroethene	ug/L	ND	1.0	11/20/09 15:21	
Tetrahydrofuran	ug/L	ND	10.0	11/20/09 15:21	
Toluene	ug/L	ND	1.0	11/20/09 15:21	
trans-1,2-Dichloroethene	ug/L	ND	1.0	11/20/09 15:21	
trans-1,3-Dichloropropene	ug/L	ND	4.0	11/20/09 15:21	
Trichloroethene	ug/L	ND	1.0	11/20/09 15:21	
Trichlorofluoromethane	ug/L	ND	1.0	11/20/09 15:21	
Vinyl chloride	ug/L	ND	0.40	11/20/09 15:21	
Xylene (Total)	ug/L	ND	3.0	11/20/09 15:21	
1,2-Dichloroethane-d4 (S)	%	109	75-125	11/20/09 15:21	
4-Bromofluorobenzene (S)	%	102	75-125	11/20/09 15:21	
Dibromofluoromethane (S)	%	108	75-125	11/20/09 15:21	
Toluene-d8 (S)	%	98	75-125	11/20/09 15:21	

LABORATORY CONTROL SAMPLE: 717282

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	46.8	94	75-125	
1,1,1-Trichloroethane	ug/L	50	46.2	92	75-125	
1,1,2,2-Tetrachloroethane	ug/L	50	47.3	95	75-125	
1,1,2-Trichloroethane	ug/L	50	46.9	94	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	41.3	83	70-138	
1,1-Dichloroethane	ug/L	50	44.8	90	75-125	
1,1-Dichloroethene	ug/L	50	38.4	77	69-129	
1,1-Dichloropropene	ug/L	50	41.7	83	75-126	
1,2,3-Trichlorobenzene	ug/L	50	44.3	89	75-125	
1,2,3-Trichloropropane	ug/L	50	47.2	94	72-126	
1,2,4-Trichlorobenzene	ug/L	50	43.9	88	75-125	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

LABORATORY CONTROL SAMPLE: 717282

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	50	43.9	88	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	50.5	101	67-125	
1,2-Dibromoethane (EDB)	ug/L	50	45.4	91	75-125	
1,2-Dichlorobenzene	ug/L	50	44.6	89	75-125	
1,2-Dichloroethane	ug/L	50	47.8	96	75-125	
1,2-Dichloropropane	ug/L	50	45.7	91	75-125	
1,3,5-Trimethylbenzene	ug/L	50	43.8	88	75-125	
1,3-Dichlorobenzene	ug/L	50	43.6	87	75-125	
1,3-Dichloropropane	ug/L	50	47.2	94	75-125	
1,4-Dichlorobenzene	ug/L	50	43.9	88	75-125	
2,2-Dichloropropane	ug/L	50	48.4	97	48-150	
2-Butanone (MEK)	ug/L	50	59.8	120	51-134	
2-Chlorotoluene	ug/L	50	43.5	87	75-125	
4-Chlorotoluene	ug/L	50	44.9	90	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	50	48.9	98	60-125	
Acetone	ug/L	125	159	127	38-125	L3
Allyl chloride	ug/L	50	35.6	71	64-137	
Benzene	ug/L	50	42.6	85	75-125	
Bromobenzene	ug/L	50	43.9	88	75-125	
Bromochloromethane	ug/L	50	43.1	86	75-125	
Bromodichloromethane	ug/L	50	49.2	98	75-125	
Bromoform	ug/L	100	96.2	96	68-125	
Bromomethane	ug/L	50	34.6	69	47-129	CL
Carbon tetrachloride	ug/L	50	46.1	92	59-133	
Chlorobenzene	ug/L	50	42.8	86	75-125	
Chloroethane	ug/L	50	51.0	102	73-132	
Chloroform	ug/L	50	47.6	95	75-125	
Chloromethane	ug/L	50	44.6	89	72-125	
cis-1,2-Dichloroethene	ug/L	50	44.1	88	75-125	
cis-1,3-Dichloropropene	ug/L	50	47.0	94	75-125	
Dibromochloromethane	ug/L	50	46.7	93	75-125	
Dibromomethane	ug/L	50	45.0	90	75-125	
Dichlorodifluoromethane	ug/L	50	49.0	98	69-134	
Dichlorofluoromethane	ug/L	50	45.7	91	70-125	
Diethyl ether (Ethyl ether)	ug/L	50	42.6	85	71-125	
Ethylbenzene	ug/L	50	44.3	89	75-125	
Hexachloro-1,3-butadiene	ug/L	50	43.4	87	75-137	
Isopropylbenzene (Cumene)	ug/L	50	44.4	89	75-125	
m&p-Xylene	ug/L	100	86.5	86	75-125	
Methyl-tert-butyl ether	ug/L	50	47.3	95	75-125	
Methylene Chloride	ug/L	50	42.2	84	75-125	
n-Butylbenzene	ug/L	50	44.3	89	75-125	
n-Propylbenzene	ug/L	50	43.9	88	75-125	
Naphthalene	ug/L	50	47.7	95	72-125	
o-Xylene	ug/L	50	43.6	87	75-125	
p-Isopropyltoluene	ug/L	50	44.3	89	75-125	
sec-Butylbenzene	ug/L	50	43.4	87	75-125	
Styrene	ug/L	50	45.3	91	75-125	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

LABORATORY CONTROL SAMPLE: 717282

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	44.1	88	75-125	
Tetrachloroethene	ug/L	50	41.4	83	74-125	
Tetrahydrofuran	ug/L	500	475	95	65-125	
Toluene	ug/L	50	41.9	84	75-125	
trans-1,2-Dichloroethene	ug/L	50	39.0	78	74-125	
trans-1,3-Dichloropropene	ug/L	50	48.3	97	75-125	
Trichloroethene	ug/L	50	44.0	88	75-125	
Trichlorofluoromethane	ug/L	50	50.7	101	73-134	
Vinyl chloride	ug/L	50	46.0	92	75-126	
Xylene (Total)	ug/L	150	130	87	75-125	
1,2-Dichloroethane-d4 (S)	%			109	75-125	
4-Bromofluorobenzene (S)	%			101	75-125	
Dibromofluoromethane (S)	%			105	75-125	
Toluene-d8 (S)	%			99	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 717283 717284

Parameter	Units	10117200007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.0	19.2	105	96	71-125	9	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	22.3	19.6	111	98	75-125	13	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	22.0	19.6	110	98	75-126	12	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	21.1	19.3	105	96	75-125	9	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	20	21.7	19.1	109	96	70-150	13	30	
1,1-Dichloroethane	ug/L	ND	20	20	21.1	18.5	106	92	75-125	13	30	
1,1-Dichloroethene	ug/L	ND	20	20	17.2	15.4	86	77	64-142	12	30	
1,1-Dichloropropene	ug/L	ND	20	20	17.8	16.0	89	80	75-125	10	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	19.4	17.0	97	85	75-125	13	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	20.6	19.2	103	96	72-127	7	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	19.4	17.2	97	86	75-125	12	30	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	19.9	17.4	100	87	75-125	14	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	21.6	19.3	108	97	65-125	11	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	18.6	16.5	93	82	75-125	12	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	20.7	18.0	103	90	75-125	14	30	
1,2-Dichloroethane	ug/L	ND	20	20	20.4	18.0	102	90	75-125	13	30	
1,2-Dichloropropane	ug/L	ND	20	20	20.9	18.4	105	92	75-125	13	30	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	19.7	17.1	99	86	75-127	14	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	20.1	17.9	100	89	75-125	11	30	
1,3-Dichloropropane	ug/L	ND	20	20	20.0	18.0	100	90	75-125	11	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	20.0	17.7	100	89	75-125	12	30	
2,2-Dichloropropane	ug/L	ND	20	20	23.6	20.3	118	101	48-150	15	30	
2-Butanone (MEK)	ug/L	ND	20	20	20.5	17.0	102	85	51-134	18	30	
2-Chlorotoluene	ug/L	ND	20	20	20.7	17.9	103	89	75-125	14	30	
4-Chlorotoluene	ug/L	ND	20	20	20.5	17.9	103	89	68-127	14	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	19.3	18.0	96	90	60-135	7	30	
Acetone	ug/L	ND	50	50	47.4	37.0	95	74	30-125	25	30	
Allyl chloride	ug/L	ND	20	20	16.7	14.4	84	72	40-137	15	30	

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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 717283 717284

Parameter	Units	10117200007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	20	20	19.5	17.0	97	85	75-125	14	30	
Bromobenzene	ug/L	ND	20	20	19.9	17.7	99	89	75-125	11	30	
Bromochloromethane	ug/L	ND	20	20	18.9	16.6	94	83	75-125	13	30	
Bromodichloromethane	ug/L	ND	20	20	21.4	19.1	107	96	72-125	11	30	
Bromoform	ug/L	ND	40	40	39.5	35.6	99	89	51-125	10	30	
Bromomethane	ug/L	ND	20	20	17.9	16.5	90	83	47-130	8	30	CL
Carbon tetrachloride	ug/L	ND	20	20	20.9	18.9	105	95	61-133	10	30	
Chlorobenzene	ug/L	ND	20	20	19.2	17.2	96	86	75-125	11	30	
Chloroethane	ug/L	ND	20	20	27.6	24.8	138	124	75-132	10	30	M0
Chloroform	ug/L	ND	20	20	22.6	19.8	113	99	75-125	13	30	
Chloromethane	ug/L	ND	20	20	23.8	21.6	119	108	68-132	10	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	19.7	17.3	98	86	75-125	13	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	20.0	17.8	100	89	63-125	12	30	
Dibromochloromethane	ug/L	ND	20	20	20.7	18.0	103	90	62-125	14	30	
Dibromomethane	ug/L	ND	20	20	18.6	16.5	93	82	75-125	12	30	
Dichlorodifluoromethane	ug/L	ND	20	20	27.9	25.7	140	128	65-150	8	30	
Dichlorofluoromethane	ug/L	ND	20	20	22.5	19.5	112	97	68-127	14	30	
Diethyl ether (Ethyl ether)	ug/L	ND	20	20	18.0	15.6	90	78	71-125	15	30	
Ethylbenzene	ug/L	ND	20	20	19.5	17.6	98	88	75-125	10	30	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	22.7	19.2	113	96	75-147	17	30	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	19.8	17.8	99	89	75-125	11	30	
m&p-Xylene	ug/L	ND	40	40	37.7	33.7	94	84	67-125	11	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	20.6	18.3	103	92	75-125	12	30	
Methylene Chloride	ug/L	ND	20	20	18.9	16.4	95	82	75-125	14	30	
n-Butylbenzene	ug/L	ND	20	20	20.4	17.7	102	89	70-135	14	30	
n-Propylbenzene	ug/L	ND	20	20	20.3	17.9	101	90	70-131	12	30	
Naphthalene	ug/L	ND	20	20	20.2	17.3	101	86	66-127	15	30	
o-Xylene	ug/L	ND	20	20	19.2	17.1	96	85	72-125	11	30	
p-Isopropyltoluene	ug/L	ND	20	20	20.2	18.0	101	90	71-126	11	30	
sec-Butylbenzene	ug/L	ND	20	20	20.7	18.2	103	91	75-127	13	30	
Styrene	ug/L	ND	20	20	19.8	17.6	99	88	30-134	12	30	
tert-Butylbenzene	ug/L	ND	20	20	21.1	18.7	106	93	75-125	12	30	
Tetrachloroethene	ug/L	ND	20	20	17.8	16.0	89	80	74-125	11	30	
Tetrahydrofuran	ug/L	ND	200	200	195	171	98	85	65-125	13	30	
Toluene	ug/L	ND	20	20	18.7	16.6	94	83	75-125	12	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	15.8	14.8	79	74	72-125	7	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.7	18.0	104	90	63-125	14	30	
Trichloroethene	ug/L	ND	20	20	18.9	17.0	95	85	58-127	11	30	
Trichlorofluoromethane	ug/L	ND	20	20	27.2	24.7	136	123	73-150	10	30	
Vinyl chloride	ug/L	ND	20	20	25.4	22.5	127	112	75-134	12	30	
Xylene (Total)	ug/L	ND	60	60	56.9	50.8	95	85	75-125	11	30	
1,2-Dichloroethane-d4 (S)	%						105	105	75-125			
4-Bromofluorobenzene (S)	%						104	102	75-125			
Dibromofluoromethane (S)	%						101	106	75-125			
Toluene-d8 (S)	%						99	101	75-125			

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QUALIFIERS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
IC	The initial calibration for this compound was outside of method control limits. The result is estimated.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
SS	This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.
pH	Post-analysis pH measurement indicates insufficient VOA sample preservation.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117287

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10117287003	**MW-14**	EPA 8260	MSV/13470		
10117287004	**MW-15**	EPA 8260	MSV/13470		
10117287006	**MW-17**	EPA 8260	MSV/13470		
10117287008	**MW-19**	EPA 8260	MSV/13470		
10117287012	**DPE-3**	EPA 8260	MSV/13470		
10117287013	**DPE-4**	EPA 8260	MSV/13470		
10117287014	**DPE-5**	EPA 8260	MSV/13470		
10117287016	**DPE-7**	EPA 8260	MSV/13471		
10117287015	**DPE-6**	EPA 8260	MSV/13474		
10117287017	**DPE-8**	EPA 8260	MSV/13474		
10117287005	**MW-16**	EPA 8260	MSV/13484		
10117287007	**MW-18**	EPA 8260	MSV/13484		
10117287009	**MW-20**	EPA 8260	MSV/13484		
10117287010	**DPE-1**	EPA 8260	MSV/13484		
10117287011	**DPE-2**	EPA 8260	MSV/13484		
10117287001	**AS-INFLUENT**	EPA 624	MSV/13491		
10117287002	**AS-EFFLUENT**	EPA 624	MSV/13491		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10117287

Page: of

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Landmark Environmental	Report To: Jason Skramstad	Attention: Jason Skramstad
Address: 2042 W. 98th Street	Copy To: Eric Gabrielson	Company Name: Landmark Environmental, LLC
Bloomington, MN 55431		Address: 2042 W. 98th St., Bloomington, MN 55431
Email To: jskramstad@landmarkenv.com	Purchase Order No.:	Pace Quote Reference:
Phone: 952-887-9601, ext 205 Fax: 952-887-9605	Project Name: City of Rochester	Pace Project Manager: Carolynne Trout
Requested Due Date/TAT: Normal	Project Number: CRC	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER_____

SITE LOCATION ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☐ WI ☐ OTHER____

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL WP
WIPE	AR
AIR	OT
OTHER	TS
TISSUE	

ITEM #	Section D Required Client Information: SAMPLE ID (One Character per box. (A-Z, 0-9 / ,-) Samples IDs MUST BE UNIQUE)	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: EPA 624	VOCs	Pace Project Number / Lab I.D.
1	AS-Influent	W	G	11/16/09	10:10				3										X		1
2	AS-Effluent	W	G	11/16/09	10:20				3										X		2
3	MW-14	W	G	11/16/09	15:40				3											X	3
4	MW-15	W	G	11/16/09	17:00				3											X	4
5	MW-16	W	G	11/16/09	19:20				2											X	5
6	MW-17	W	G	11/16/09	18:10				3											X	6
7	MW-18	W	G	11/16/09	15:45				3											X	7
8	MW-19	W	G	11/16/09	16:30				3											X	8
5	MW-20	W	G	11/16/09	18:50				3											X	9
6																					
7																					
8																					

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
			Hunter/Pace	11/18/09	1425

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
4.2	(Y)	(Y)	(Y)
3.8	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Eric Gabrielson

SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY)

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: of

Section A — **Required** Client Information:

Company: Landmark Environmental	
Address: 2042 W. 98th Street	
Bloomington, MN 55431	
Email To: jskramstad@landmarkenv.com	
Phone: 952-887-9601, ext 205	Fax: 952-887-9605
Requested Due Date/TAT: Normal	

Section B — **Required** Project Information:

Report To: Jason Skramstad
Copy To: Eric Gabrielson
Purchase Order No.:
Project Name: City of Rochester
Project Number: CRC

Section C — Invoice Information:

Attention: Jason Skramstad
Company Name: Landmark Environmental, LLC
Address: 2042 W. 98th St., Bloomington, MN 55431
Pace Quote Reference:
Pace Project Manager: Carolynne Trout
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER_____

SITE LOCATION ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☐ WI ☐ OTHER____

Section D **Required** Client Information

SAMPLE ID
One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL WP
WIPE	AR
AIR	OT
OTHER	TS
TISSUE	

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G+GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analyses: EPA 624 VOCs	Pace Project Number / Lab I.D.
1	DPE-1	W	G	11/16/09	19:50				2									X	010
2	DPE-2	W	G	11/17/09	9:40				2									X	011
3	DPE-3	W	G	11/17/09	10:15				3									X	012
4	DPE-4	W	G	11/17/09	10:50				3									X	013
5	DPE-5	W	G	11/17/09	11:00				3									X	014
6	DPE-6	W	G	11/17/09	11:30				3									X	015
7	DPE-7	W	G	11/17/09	11:50				3									X	016
8	DPE-8	W	G	11/17/09	12:30				3									X	017
5																			
6																			
7																			
8																			

Filtered (Y/N)

Requested Ana

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
			SLA/Pace	11/18/09	1425

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
4.2	(Y/N)	(Y/N)	(Y/N)
3.8	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Eric Gabrielson

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM / DD / YY)

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F:\PROJECTS\Crc-City of Rochester\Analytical Reports\coc 11-18-09_2.XLS

E-File,(ALLQ020rev.3,31Mar05), 13Jun2005

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Sample Condition Upon Receipt

Client Name: Landmark Project # 10117287

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Optional: Proj. Due Date: Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____ Temp Blank: Yes ✓ No _____

Thermometer Used: 80344042 or 179425 Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 4.2, 3.8 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 11/18/09 SC

Comments:

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☑No ☐N/A	11.
Sample Labels match COC:	☐Yes ☐No ☑N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing acid/base preservation have been checked. Noncompliance are noted in 13.	☐Yes ☐No ☑N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ HCl
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	Samp #
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	☐Yes ☐No	Initial when completed: AH Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☐Yes ☑No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☑No ☐N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Jason Skramstad Date/Time: 11/19/09 0900

Comments/ Resolution: VOC method 8260T

Project Manager Review: [signature] **Date:** 11/19/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR.

F-L213Rev.00, 05Aug2009

Pace Analytical Services, Inc.
1700 Elm Street SE, Suite 200, Minneapolis, MN 55414

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Landmark Environmental
Phone: 952-887-9601

Lab Project Number: 10117291
Project Name: CRC CITY OF ROCHESTER

Lab Sample No: 10117291001 ProjSampleNum: 10117291001 Date Collected: 11/17/09 18:00
Client Sample ID: DPE-OUTLET-1254 Matrix: Air Date Received: 11/18/09 14:17

Air

TO-15

Parameters	Report Limit ppbv	Results ppbv	Report Limit ug/m3	Results ug/m3	DF	Analyzed	CAS No.
1,1,1-Trichloroethane	18	ND	100	ND	34.6	12/01/09 4:52 LCW	71-55-6
1,1,2,2-Tetrachloroethane	18	ND	130	ND	34.6	12/01/09 4:52 LCW	79-34-5
1,1,2-Trichloroethane	18	ND	100	ND	34.6	12/01/09 4:52 LCW	79-00-5
1,1,2-Trichlorotrifluoroethane	1150	9260	9000	72100	2214.4	12/02/09 4:57 LCW	76-13-1
1,1-Dichloroethane	18	ND	74	ND	34.6	12/01/09 4:52 LCW	75-34-3
1,1-Dichloroethene	18	ND	73	ND	34.6	12/01/09 4:52 LCW	75-35-4
1,2,4-Trichlorobenzene	18	ND	140	ND	34.6	12/01/09 4:52 LCW	120-82-1
1,2,4-Trimethylbenzene	17.6	ND	88	ND	34.6	12/01/09 4:52 LCW	95-63-6
1,2-Dibromoethane (EDB)	18	ND	140	ND	34.6	12/01/09 4:52 LCW	106-93-4
1,2-Dichlorobenzene	17.6	ND	110	ND	34.6	12/01/09 4:52 LCW	95-50-1
1,2-Dichloroethane	18	ND	74	ND	34.6	12/01/09 4:52 LCW	107-06-2
1,2-Dichloropropane	18	ND	85	ND	34.6	12/01/09 4:52 LCW	78-87-5
1,3,5-Trimethylbenzene	18	ND	90	ND	34.6	12/01/09 4:52 LCW	108-67-8
1,3-Butadiene	18	ND	40	ND	34.6	12/01/09 4:52 LCW	106-99-0
1,3-Dichlorobenzene	17.6	ND	110	ND	34.6	12/01/09 4:52 LCW	541-73-1
1,4-Dichlorobenzene	17.6	ND	110	ND	34.6	12/01/09 4:52 LCW	106-46-7
2-Butanone (MEK)	19	ND	57	ND	34.6	12/01/09 4:52 LCW	78-93-3
2-Hexanone	19	ND	79	ND	34.6	12/01/09 4:52 LCW	591-78-6
4-Ethyltoluene	18.3	ND	91	ND	34.6	12/01/09 4:52 LCW	622-96-8
4-Methyl-2-pentanone (MIBK)	19	ND	79	ND	34.6	12/01/09 4:52 LCW	108-10-1
Acetone	19	48.1	46	116	34.6	12/01/09 4:52 LCW	67-64-1
Benzene	18	ND	58	ND	34.6	12/01/09 4:52 LCW	71-43-2
Bromodichloromethane	17.6	ND	120	ND	34.6	12/01/09 4:52 LCW	75-27-4
Bromoform	18	ND	190	ND	34.6	12/01/09 4:52 LCW	75-25-2
Bromomethane	17.6	ND	69	ND	34.6	12/01/09 4:52 LCW	74-83-9
Carbon disulfide	17.3	ND	55	ND	34.6	12/01/09 4:52 LCW	75-15-0
Carbon tetrachloride	17.6	ND	110	ND	34.6	12/01/09 4:52 LCW	56-23-5
Chlorobenzene	18	ND	84	ND	34.6	12/01/09 4:52 LCW	108-90-7
Chloroethane	17.6	ND	47	ND	34.6	12/01/09 4:52 LCW	75-00-3
Chloroform	17.6	ND	87	ND	34.6	12/01/09 4:52 LCW	67-66-3
Chloromethane	17.3	ND	36	ND	34.6	12/01/09 4:52 LCW	74-87-3
cis-1,2-Dichloroethene	18	29.2	73	118	34.6	12/01/09 4:52 LCW	156-59-2
cis-1,3-Dichloropropene	17.6	ND	81	ND	34.6	12/01/09 4:52 LCW	10061-01-5
Cyclohexane	18	ND	63	ND	34.6	12/01/09 4:52 LCW	110-82-7
Dibromochloromethane	18.3	ND	160	ND	34.6	12/01/09 4:52 LCW	124-48-1
Dichlorodifluoromethane	17.6	ND	88	ND	34.6	12/01/09 4:52 LCW	75-71-8
Dichlorotetrafluoroethane	19.7	ND	140	ND	34.6	12/01/09 4:52 LCW	76-14-2
Ethyl acetate	17.6	ND	64	ND	34.6	12/01/09 4:52 LCW	141-78-6
Ethylbenzene	18	ND	79	ND	34.6	12/01/09 4:52 LCW	100-41-4
Hexachloro-1,3-butadiene	17.3	ND	190	ND	34.6	12/01/09 4:52 LCW	87-68-3
m&p-Xylene	34.6	ND	150	ND	34.6	12/01/09 4:52 LCW	1330-20-7

SUPPLEMENTAL REPORT
Units Conversion Request

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Landmark Environmental
Phone: 952-887-9601

Lab Project Number: 10117291
Project Name: CRC CITY OF ROCHESTER

Methylene Chloride	18	ND	64	ND	34.6	12/01/09 4:52	LCW	75-09-2
Methyl-tert-butyl ether	34.6	ND	130	ND	34.6	12/01/09 4:52	LCW	1634-04-4
n-Heptane	18	ND	75	ND	34.6	12/01/09 4:52	LCW	142-82-5
n-Hexane	18.3	ND	66	ND	34.6	12/01/09 4:52	LCW	110-54-3
o-Xylene	18	ND	79	ND	34.6	12/01/09 4:52	LCW	95-47-6
Propylene	69.2	ND	120	ND	34.6	12/01/09 4:52	LCW	115-07-1
Styrene	19	ND	82	ND	34.6	12/01/09 4:52	LCW	100-42-5
Tetrachloroethene	1150	55300	7900	381000	2214.4	12/02/09 4:57	LCW	127-18-4
Tetrahydrofuran	18	48.3	54	145	34.6	12/01/09 4:52	LCW	109-99-9
Toluene	18	ND	69	ND	34.6	12/01/09 4:52	LCW	108-88-3
trans-1,2-Dichloroethene	34.6	ND	140	ND	34.6	12/01/09 4:52	LCW	156-60-5
trans-1,3-Dichloropropene	18	ND	83	ND	34.6	12/01/09 4:52	LCW	10061-02-6
Trichloroethene	18	ND	98	ND	34.6	12/01/09 4:52	LCW	79-01-6
Trichlorofluoromethane	17.3	ND	99	ND	34.6	12/01/09 4:52	LCW	75-69-4
Vinyl acetate	19	ND	68	ND	34.6	12/01/09 4:52	LCW	108-05-4
Vinyl chloride	17.6	ND	46	ND	34.6	12/01/09 4:52	LCW	75-01-4

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

December 02, 2009

Eric Gabrielson
Landmark Environmental
2042 West 98th St.
Minneapolis, MN 55431

RE: Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117291

Dear Eric Gabrielson:
Enclosed are the analytical results for sample(s) received by the laboratory on November 18, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carolynne Trout

Carolynne Trout

carolynne.trout@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117291

Minnesota Certification IDs

1700 Elm Street SE, Suite 200 Minneapolis, MN 55414
Alaska Certification #: UST-078
Washington Certification #: C754
Tennessee Certification #: 02818
Pennsylvania Certification #: 68-00563
Oregon Certification #: MN200001
North Dakota Certification #: R-036
North Carolina Certification #: 530
New York Certification #: 11647
New Jersey Certification #: MN-002
Montana Certification #: MT CERT0092
Minnesota Certification #: 027-053-137
Maine Certification #: 2007029
Louisiana Certification #: LA080009
Louisiana Certification #: 03086
Kansas Certification #: E-10167
Iowa Certification #: 368
Illinois Certification #: 200011
Florida/NELAP Certification #: E87605
California Certification #: 01155CA
Arizona Certification #: AZ-0014
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117291

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10117291001	**DPE-OUTLET-1254**	Air	11/17/09 18:00	11/18/09 14:17

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SAMPLE ANALYTE COUNT

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117291

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10117291001	**DPE-OUTLET-1254**	TO-15	LCW	57

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117291

Sample: DPE-OUTLET-1254 **Lab ID: 10117291001** Collected: 11/17/09 18:00 Received: 11/18/09 14:17 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	**48.1**	ppbv	19.0	34.6		12/01/09 04:52	67-64-1	
Benzene	ND	ppbv	18.0	34.6		12/01/09 04:52	71-43-2	
Bromodichloromethane	ND	ppbv	17.6	34.6		12/01/09 04:52	75-27-4	
Bromoform	ND	ppbv	18.0	34.6		12/01/09 04:52	75-25-2	
Bromomethane	ND	ppbv	17.6	34.6		12/01/09 04:52	74-83-9	
1,3-Butadiene	ND	ppbv	18.0	34.6		12/01/09 04:52	106-99-0	
2-Butanone (MEK)	ND	ppbv	19.0	34.6		12/01/09 04:52	78-93-3	
Carbon disulfide	ND	ppbv	17.3	34.6		12/01/09 04:52	75-15-0	
Carbon tetrachloride	ND	ppbv	17.6	34.6		12/01/09 04:52	56-23-5	
Chlorobenzene	ND	ppbv	18.0	34.6		12/01/09 04:52	108-90-7	
Chloroethane	ND	ppbv	17.6	34.6		12/01/09 04:52	75-00-3	
Chloroform	ND	ppbv	17.6	34.6		12/01/09 04:52	67-66-3	
Chloromethane	ND	ppbv	17.3	34.6		12/01/09 04:52	74-87-3	
Cyclohexane	ND	ppbv	18.0	34.6		12/01/09 04:52	110-82-7	
Dibromochloromethane	ND	ppbv	18.3	34.6		12/01/09 04:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ppbv	18.0	34.6		12/01/09 04:52	106-93-4	
1,2-Dichlorobenzene	ND	ppbv	17.6	34.6		12/01/09 04:52	95-50-1	
1,3-Dichlorobenzene	ND	ppbv	17.6	34.6		12/01/09 04:52	541-73-1	
1,4-Dichlorobenzene	ND	ppbv	17.6	34.6		12/01/09 04:52	106-46-7	
Dichlorodifluoromethane	ND	ppbv	17.6	34.6		12/01/09 04:52	75-71-8	
1,1-Dichloroethane	ND	ppbv	18.0	34.6		12/01/09 04:52	75-34-3	
1,2-Dichloroethane	ND	ppbv	18.0	34.6		12/01/09 04:52	107-06-2	
1,1-Dichloroethene	ND	ppbv	18.0	34.6		12/01/09 04:52	75-35-4	
cis-1,2-Dichloroethene	**29.2**	ppbv	18.0	34.6		12/01/09 04:52	156-59-2	
trans-1,2-Dichloroethene	ND	ppbv	34.6	34.6		12/01/09 04:52	156-60-5	
1,2-Dichloropropane	ND	ppbv	18.0	34.6		12/01/09 04:52	78-87-5	
cis-1,3-Dichloropropene	ND	ppbv	17.6	34.6		12/01/09 04:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ppbv	18.0	34.6		12/01/09 04:52	10061-02-6	
Dichlorotetrafluoroethane	ND	ppbv	19.7	34.6		12/01/09 04:52	76-14-2	
Ethyl acetate	ND	ppbv	17.6	34.6		12/01/09 04:52	141-78-6	
Ethylbenzene	ND	ppbv	18.0	34.6		12/01/09 04:52	100-41-4	
4-Ethyltoluene	ND	ppbv	18.3	34.6		12/01/09 04:52	622-96-8	
n-Heptane	ND	ppbv	18.0	34.6		12/01/09 04:52	142-82-5	
Hexachloro-1,3-butadiene	ND	ppbv	17.3	34.6		12/01/09 04:52	87-68-3	
n-Hexane	ND	ppbv	18.3	34.6		12/01/09 04:52	110-54-3	
2-Hexanone	ND	ppbv	19.0	34.6		12/01/09 04:52	591-78-6	
Methylene Chloride	ND	ppbv	18.0	34.6		12/01/09 04:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ppbv	19.0	34.6		12/01/09 04:52	108-10-1	
Methyl-tert-butyl ether	ND	ppbv	34.6	34.6		12/01/09 04:52	1634-04-4	
Propylene	ND	ppbv	69.2	34.6		12/01/09 04:52	115-07-1	
Styrene	ND	ppbv	19.0	34.6		12/01/09 04:52	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ppbv	18.0	34.6		12/01/09 04:52	79-34-5	
Tetrachloroethene	**55300**	ppbv	1150	2214.4		12/02/09 04:57	127-18-4	
Tetrahydrofuran	**48.3**	ppbv	18.0	34.6		12/01/09 04:52	109-99-9	
Toluene	ND	ppbv	18.0	34.6		12/01/09 04:52	108-88-3	
1,2,4-Trichlorobenzene	ND	ppbv	18.0	34.6		12/01/09 04:52	120-82-1	
1,1,1-Trichloroethane	ND	ppbv	18.0	34.6		12/01/09 04:52	71-55-6	

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(612)607-1700

ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117291

Sample: DPE-OUTLET-1254 **Lab ID: 10117291001** Collected: 11/17/09 18:00 Received: 11/18/09 14:17 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,1,2-Trichloroethane	ND	ppbv	18.0	34.6		12/01/09 04:52	79-00-5	
Trichloroethene	ND	ppbv	18.0	34.6		12/01/09 04:52	79-01-6	
Trichlorofluoromethane	ND	ppbv	17.3	34.6		12/01/09 04:52	75-69-4	
1,1,2-Trichlorotrifluoroethane	**9260**	ppbv	1150	2214.4		12/02/09 04:57	76-13-1	A3
1,2,4-Trimethylbenzene	ND	ppbv	17.6	34.6		12/01/09 04:52	95-63-6	
1,3,5-Trimethylbenzene	ND	ppbv	18.0	34.6		12/01/09 04:52	108-67-8	
Vinyl acetate	ND	ppbv	19.0	34.6		12/01/09 04:52	108-05-4	
Vinyl chloride	ND	ppbv	17.6	34.6		12/01/09 04:52	75-01-4	
m&p-Xylene	ND	ppbv	34.6	34.6		12/01/09 04:52	1330-20-7	
o-Xylene	ND	ppbv	18.0	34.6		12/01/09 04:52	95-47-6	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117291

QC Batch: AIR/9435 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR
Associated Lab Samples: 10117291001

METHOD BLANK: 720428 Matrix: Air
Associated Lab Samples: 10117291001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ppbv	ND	0.52	11/30/09 16:16	
1,1,2,2-Tetrachloroethane	ppbv	ND	0.52	11/30/09 16:16	
1,1,2-Trichloroethane	ppbv	ND	0.52	11/30/09 16:16	
1,1,2-Trichlorotrifluoroethane	ppbv	ND	0.52	11/30/09 16:16	
1,1-Dichloroethane	ppbv	ND	0.52	11/30/09 16:16	
1,1-Dichloroethene	ppbv	ND	0.52	11/30/09 16:16	
1,2,4-Trichlorobenzene	ppbv	ND	0.52	11/30/09 16:16	
1,2,4-Trimethylbenzene	ppbv	ND	0.51	11/30/09 16:16	
1,2-Dibromoethane (EDB)	ppbv	ND	0.52	11/30/09 16:16	
1,2-Dichlorobenzene	ppbv	ND	0.51	11/30/09 16:16	
1,2-Dichloroethane	ppbv	ND	0.52	11/30/09 16:16	
1,2-Dichloropropane	ppbv	ND	0.52	11/30/09 16:16	
1,3,5-Trimethylbenzene	ppbv	ND	0.52	11/30/09 16:16	
1,3-Butadiene	ppbv	ND	0.52	11/30/09 16:16	
1,3-Dichlorobenzene	ppbv	ND	0.51	11/30/09 16:16	
1,4-Dichlorobenzene	ppbv	ND	0.51	11/30/09 16:16	
2-Butanone (MEK)	ppbv	ND	0.55	11/30/09 16:16	
2-Hexanone	ppbv	ND	0.55	11/30/09 16:16	
4-Ethyltoluene	ppbv	ND	0.53	11/30/09 16:16	
4-Methyl-2-pentanone (MIBK)	ppbv	ND	0.55	11/30/09 16:16	
Acetone	ppbv	ND	0.55	11/30/09 16:16	
Benzene	ppbv	ND	0.52	11/30/09 16:16	
Bromodichloromethane	ppbv	ND	0.51	11/30/09 16:16	
Bromoform	ppbv	ND	0.52	11/30/09 16:16	
Bromomethane	ppbv	ND	0.51	11/30/09 16:16	
Carbon disulfide	ppbv	ND	0.50	11/30/09 16:16	
Carbon tetrachloride	ppbv	ND	0.51	11/30/09 16:16	
Chlorobenzene	ppbv	ND	0.52	11/30/09 16:16	
Chloroethane	ppbv	ND	0.51	11/30/09 16:16	
Chloroform	ppbv	ND	0.51	11/30/09 16:16	
Chloromethane	ppbv	ND	0.50	11/30/09 16:16	
cis-1,2-Dichloroethene	ppbv	ND	0.52	11/30/09 16:16	
cis-1,3-Dichloropropene	ppbv	ND	0.51	11/30/09 16:16	
Cyclohexane	ppbv	ND	0.52	11/30/09 16:16	
Dibromochloromethane	ppbv	ND	0.53	11/30/09 16:16	
Dichlorodifluoromethane	ppbv	ND	0.51	11/30/09 16:16	
Dichlorotetrafluoroethane	ppbv	ND	0.57	11/30/09 16:16	
Ethyl acetate	ppbv	ND	0.51	11/30/09 16:16	
Ethylbenzene	ppbv	ND	0.52	11/30/09 16:16	
Hexachloro-1,3-butadiene	ppbv	ND	0.50	11/30/09 16:16	
m&p-Xylene	ppbv	ND	1.0	11/30/09 16:16	
Methyl-tert-butyl ether	ppbv	ND	1.0	11/30/09 16:16	
Methylene Chloride	ppbv	ND	0.52	11/30/09 16:16	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117291

METHOD BLANK: 720428 Matrix: Air

Associated Lab Samples: 10117291001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
n-Heptane	ppbv	ND	0.52	11/30/09 16:16	
n-Hexane	ppbv	ND	0.53	11/30/09 16:16	
o-Xylene	ppbv	ND	0.52	11/30/09 16:16	
Propylene	ppbv	ND	2.0	11/30/09 16:16	
Styrene	ppbv	ND	0.55	11/30/09 16:16	
Tetrachloroethene	ppbv	ND	0.52	11/30/09 16:16	
Tetrahydrofuran	ppbv	ND	0.52	11/30/09 16:16	
Toluene	ppbv	ND	0.52	11/30/09 16:16	
trans-1,2-Dichloroethene	ppbv	ND	1.0	11/30/09 16:16	
trans-1,3-Dichloropropene	ppbv	ND	0.52	11/30/09 16:16	
Trichloroethene	ppbv	ND	0.52	11/30/09 16:16	
Trichlorofluoromethane	ppbv	ND	0.50	11/30/09 16:16	
Vinyl acetate	ppbv	ND	0.55	11/30/09 16:16	
Vinyl chloride	ppbv	ND	0.51	11/30/09 16:16	

LABORATORY CONTROL SAMPLE: 720429

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ppbv	10.3	12.7	123	60-125	
1,1,2,2-Tetrachloroethane	ppbv	10.2	10.9	107	57-127	
1,1,2-Trichloroethane	ppbv	10.1	11.4	113	56-125	
1,1,2-Trichlorotrifluoroethane	ppbv	9.8	8.6	88	52-133	
1,1-Dichloroethane	ppbv	10	10	100	54-127	
1,1-Dichloroethene	ppbv	10	11.8	118	52-129	
1,2,4-Trichlorobenzene	ppbv	9.9	14.3	144	30-150	
1,2,4-Trimethylbenzene	ppbv	9.9	11.2	113	52-145	
1,2-Dibromoethane (EDB)	ppbv	10.4	12.9	124	59-133	
1,2-Dichlorobenzene	ppbv	10.2	10.9	107	67-135	
1,2-Dichloroethane	ppbv	10.9	12.6	115	54-125	
1,2-Dichloropropane	ppbv	10.8	13.4	124	64-125	
1,3,5-Trimethylbenzene	ppbv	9.9	11.5	116	56-135	
1,3-Butadiene	ppbv	10.1	11.2	111	55-125	
1,3-Dichlorobenzene	ppbv	10.5	11.1	106	61-142	
1,4-Dichlorobenzene	ppbv	10.3	10.5	102	55-142	
2-Butanone (MEK)	ppbv	10.3	8.3	81	47-141	
2-Hexanone	ppbv	10.1	9.5	94	41-138	
4-Ethyltoluene	ppbv	10	10.7	107	62-130	
4-Methyl-2-pentanone (MIBK)	ppbv	10.2	11.0	108	53-134	
Acetone	ppbv	10	6.6	66	44-149	
Benzene	ppbv	10.1	11.5	113	61-126	
Bromodichloromethane	ppbv	10	12.7	127	54-129	
Bromoform	ppbv	10.2	10.3	101	56-125	
Bromomethane	ppbv	10.1	11.7	116	56-128	
Carbon disulfide	ppbv	10.3	11.5	112	58-150	
Carbon tetrachloride	ppbv	10.1	11.0	109	55-125	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117291

LABORATORY CONTROL SAMPLE: 720429

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	ppbv	9.9	12.8	129	48-138	
Chloroethane	ppbv	9.9	11.4	115	56-128	
Chloroform	ppbv	9.7	11.8	122	55-125	
Chloromethane	ppbv	10	12.6	126	50-131	
cis-1,2-Dichloroethene	ppbv	10.3	12.1	118	64-125	
cis-1,3-Dichloropropene	ppbv	10.5	11.5	110	61-132	
Cyclohexane	ppbv	10.2	12.8	125	61-130	
Dibromochloromethane	ppbv	10.5	10.2	97	51-129	
Dichlorodifluoromethane	ppbv	9.8	9.2	94	56-132	
Dichlorotetrafluoroethane	ppbv	10	9.9	99	48-125	
Ethyl acetate	ppbv	10.2	11.9	117	66-149	
Ethylbenzene	ppbv	11	13.8	125	56-137	
Hexachloro-1,3-butadiene	ppbv	9.8	16.2	166	30-150	L3
m&p-Xylene	ppbv	21	26.5	126	62-135	
Methyl-tert-butyl ether	ppbv	10	10.8	108	59-125	
Methylene Chloride	ppbv	9.8	8.1	82	46-143	
n-Heptane	ppbv	10.3	11.1	108	64-130	
n-Hexane	ppbv	10.9	12.0	110	61-134	
o-Xylene	ppbv	10.3	13.7	133	61-134	
Propylene	ppbv	10.6	10.9	103	62-146	
Styrene	ppbv	10	9.9	99	63-134	
Tetrachloroethene	ppbv	10.4	13.0	125	61-132	
Tetrahydrofuran	ppbv	7.5	6.0	80	62-137	
Toluene	ppbv	10.4	11.7	112	57-132	
trans-1,2-Dichloroethene	ppbv	10.4	12.0	116	52-130	
trans-1,3-Dichloropropene	ppbv	10.6	9.5	89	61-129	
Trichloroethene	ppbv	10.1	14.1	140	72-147	
Trichlorofluoromethane	ppbv	9.8	11.5	118	58-141	
Vinyl acetate	ppbv	10.3	10.8	105	56-131	
Vinyl chloride	ppbv	10.3	10.9	106	56-136	

SAMPLE DUPLICATE: 720687

Parameter	Units	10117646007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ppbv	ND	ND		30	
1,1,2,2-Tetrachloroethane	ppbv	ND	ND		30	
1,1,2-Trichloroethane	ppbv	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ppbv	ND	ND		30	
1,1-Dichloroethane	ppbv	ND	ND		30	
1,1-Dichloroethene	ppbv	ND	ND		30	
1,2,4-Trichlorobenzene	ppbv	ND	ND		30	
1,2,4-Trimethylbenzene	ppbv	ND	ND		30	
1,2-Dibromoethane (EDB)	ppbv	ND	ND		30	
1,2-Dichlorobenzene	ppbv	ND	ND		30	
1,2-Dichloroethane	ppbv	ND	ND		30	
1,2-Dichloropropane	ppbv	ND	ND		30	
1,3,5-Trimethylbenzene	ppbv	ND	ND		30	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117291

SAMPLE DUPLICATE: 720687

Parameter	Units	10117646007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,3-Butadiene	ppbv	ND	ND		30	
1,3-Dichlorobenzene	ppbv	ND	ND		30	
1,4-Dichlorobenzene	ppbv	ND	ND		30	
2-Butanone (MEK)	ppbv	5.4	6.0	11	30	
2-Hexanone	ppbv	ND	ND		30	
4-Ethyltoluene	ppbv	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ppbv	ND	ND		30	
Acetone	ppbv	19.6	22.3	13	30	
Benzene	ppbv	ND	ND		30	
Bromodichloromethane	ppbv	ND	ND		30	
Bromoform	ppbv	ND	ND		30	
Bromomethane	ppbv	ND	ND		30	
Carbon disulfide	ppbv	ND	ND		30	
Carbon tetrachloride	ppbv	ND	ND		30	
Chlorobenzene	ppbv	ND	ND		30	
Chloroethane	ppbv	ND	ND		30	
Chloroform	ppbv	ND	ND		30	
Chloromethane	ppbv	ND	ND		30	
cis-1,2-Dichloroethene	ppbv	ND	ND		30	
cis-1,3-Dichloropropene	ppbv	ND	ND		30	
Cyclohexane	ppbv	ND	ND		30	
Dibromochloromethane	ppbv	ND	ND		30	
Dichlorodifluoromethane	ppbv	ND	ND		30	
Dichlorotetrafluoroethane	ppbv	ND	ND		30	
Ethyl acetate	ppbv	ND	ND		30	
Ethylbenzene	ppbv	ND	ND		30	
Hexachloro-1,3-butadiene	ppbv	ND	ND		30	
m&p-Xylene	ppbv	ND	ND		30	
Methyl-tert-butyl ether	ppbv	ND	ND		30	
Methylene Chloride	ppbv	ND	ND		30	
n-Heptane	ppbv	ND	ND		30	
n-Hexane	ppbv	ND	ND		30	
o-Xylene	ppbv	ND	ND		30	
Propylene	ppbv	ND	ND		30	
Styrene	ppbv	ND	ND		30	
Tetrachloroethene	ppbv	ND	ND		30	
Tetrahydrofuran	ppbv	1.4	1.3	6	30	
Toluene	ppbv	0.88	0.87	1	30	
trans-1,2-Dichloroethene	ppbv	ND	ND		30	
trans-1,3-Dichloropropene	ppbv	ND	ND		30	
Trichloroethene	ppbv	ND	ND		30	
Trichlorofluoromethane	ppbv	ND	ND		30	
Vinyl acetate	ppbv	ND	ND		30	
Vinyl chloride	ppbv	ND	ND		30	

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QUALIFIERS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117291

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

ANALYTE QUALIFIERS

A3	The sample was analyzed by serial dilution.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10117291

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10117291001	**DPE-OUTLET-1254**	TO-15	AIR/9435		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10172gc

Page: of

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Landmark Environmental	Report To: Jason Skramstad	Attention: Jason Skramstad
Address: 2042 W. 98th Street	Copy To: Eric Gabrielson	Company Name: Landmark Environmental, LLC
Bloomington, MN 55431		Address: 2042 W. 98th St., Bloomington, MN 55431
Email To: jskramstad@landmarkenv.com	Purchase Order No.:	Pace Quote Reference:
Phone: 952-887-9601, ext 205 Fax: 952-887-9605	Project Name: City of Rochester	Pace Project Manager: Carolynne Trout
Requested Due Date/TAT: Normal	Project Number: CRC	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER_____

SITE LOCATION ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☐ WI ☐ OTHER____

Section D Required Client Information

SAMPLE ID

One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL WP
WIPE	AR
AIR	OT
OTHER	TS
TISSUE	

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: TO-15	Pace Project Number / Lab I.D.
1	DPE-OUTLET-1254	A	I	11/17/09	12:00	11/17/09	18:00												X	101
2																				
3																				
4																				
5																				
6																				
7																				
8																				
5																				
6																				
7																				
8																				

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
				11/18	1717

SAMPLE CONDITIONS

	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
	AMB	(Y/N)	(Y/N)	(Y/N)
		Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: Eric Gabrielson DATE Signed (MM / DD / YY)

13 of 14

Pace Analytical

AIR Sample Condition Upon Receipt

Client Name: Landmark Project # [0]1729[1]

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other ____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other ____

Optional
Proj. Due Date:
Proj. Name:

Tracking #: ____

Date and Initials of person examining contents: 11/19/09

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☐Yes ☑No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Media: Air can		11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.

Samples Received:

Canisters		Flow Controllers		Stand Alone G		Tedlar Bags	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
DPE	1254						

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: ____ Date/Time: ____

Comments/ Resolution: 1 unused can

Project Manager Review: C Dust **Date:** 11/19/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

A106 Rev.01 (22May2009)

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December 29, 2009

Mr. Jason Skramstad
Landmark Environmental
2042 W. 98th. St.
Minneapolis, MN 55431

RE: Project: CRC City of Rochester
Pace Project No.: 10119098

Dear Mr. Skramstad:
Enclosed are the analytical results for sample(s) received by the laboratory on December 18, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carolynne Trout

Carolynne Trout

carolynne.trout@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CRC City of Rochester
Pace Project No.: 10119098

Minnesota Certification IDs

1700 Elm Street SE, Suite 200 Minneapolis, MN 55414
Alaska Certification #: UST-078
Washington Certification #: C754
Tennessee Certification #: 02818
Pennsylvania Certification #: 68-00563
Oregon Certification #: MN200001
North Dakota Certification #: R-036
North Carolina Certification #: 530
New York Certification #: 11647
New Jersey Certification #: MN-002
Montana Certification #: MT CERT0092
Minnesota Certification #: 027-053-137
Michigan DEQ Certification #: 9909
Maine Certification #: 2007029
Louisiana Certification #: LA080009
Louisiana Certification #: 03086
Kansas Certification #: E-10167
Iowa Certification #: 368
Illinois Certification #: 200011
Florida/NELAP Certification #: E87605
California Certification #: 01155CA
Arizona Certification #: AZ-0014
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: CRC City of Rochester
Pace Project No.: 10119098

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10119098001	**DPE-OUTLET-0903**	Air	12/17/09 15:03	12/18/09 09:23

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SAMPLE ANALYTE COUNT

Project: CRC City of Rochester
Pace Project No.: 10119098

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10119098001	**DPE-OUTLET-0903**	TO-15	AEP	57

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10119098

Sample: DPE-OUTLET-0903 **Lab ID: 10119098001** Collected: 12/17/09 15:03 Received: 12/18/09 09:23 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	**52.2**	ppbv	30.0	54.6		12/29/09 00:20	67-64-1	
Benzene	**5.0**	ppbv	1.4	2.73		12/28/09 23:51	71-43-2	
Bromodichloromethane	ND	ppbv	1.4	2.73		12/28/09 23:51	75-27-4	
Bromoform	ND	ppbv	1.4	2.73		12/28/09 23:51	75-25-2	
Bromomethane	ND	ppbv	1.4	2.73		12/28/09 23:51	74-83-9	
1,3-Butadiene	ND	ppbv	1.4	2.73		12/28/09 23:51	106-99-0	
2-Butanone (MEK)	ND	ppbv	1.5	2.73		12/28/09 23:51	78-93-3	
Carbon disulfide	ND	ppbv	1.4	2.73		12/28/09 23:51	75-15-0	
Carbon tetrachloride	ND	ppbv	1.4	2.73		12/28/09 23:51	56-23-5	
Chlorobenzene	ND	ppbv	1.4	2.73		12/28/09 23:51	108-90-7	
Chloroethane	ND	ppbv	1.4	2.73		12/28/09 23:51	75-00-3	
Chloroform	ND	ppbv	1.4	2.73		12/28/09 23:51	67-66-3	
Chloromethane	ND	ppbv	1.4	2.73		12/28/09 23:51	74-87-3	
Cyclohexane	**219**	ppbv	28.4	54.6		12/29/09 00:20	110-82-7	
Dibromochloromethane	ND	ppbv	1.4	2.73		12/28/09 23:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ppbv	1.4	2.73		12/28/09 23:51	106-93-4	
1,2-Dichlorobenzene	ND	ppbv	1.4	2.73		12/28/09 23:51	95-50-1	
1,3-Dichlorobenzene	ND	ppbv	1.4	2.73		12/28/09 23:51	541-73-1	
1,4-Dichlorobenzene	ND	ppbv	1.4	2.73		12/28/09 23:51	106-46-7	
Dichlorodifluoromethane	ND	ppbv	1.4	2.73		12/28/09 23:51	75-71-8	
1,1-Dichloroethane	ND	ppbv	1.4	2.73		12/28/09 23:51	75-34-3	
1,2-Dichloroethane	ND	ppbv	1.4	2.73		12/28/09 23:51	107-06-2	
1,1-Dichloroethene	ND	ppbv	1.4	2.73		12/28/09 23:51	75-35-4	
cis-1,2-Dichloroethene	**11.7**	ppbv	1.4	2.73		12/28/09 23:51	156-59-2	
trans-1,2-Dichloroethene	ND	ppbv	2.7	2.73		12/28/09 23:51	156-60-5	
1,2-Dichloropropane	ND	ppbv	1.4	2.73		12/28/09 23:51	78-87-5	
cis-1,3-Dichloropropene	ND	ppbv	1.4	2.73		12/28/09 23:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ppbv	1.4	2.73		12/28/09 23:51	10061-02-6	
Dichlorotetrafluoroethane	ND	ppbv	1.6	2.73		12/28/09 23:51	76-14-2	
Ethyl acetate	ND	ppbv	1.4	2.73		12/28/09 23:51	141-78-6	
Ethylbenzene	ND	ppbv	1.4	2.73		12/28/09 23:51	100-41-4	
4-Ethyltoluene	ND	ppbv	1.4	2.73		12/28/09 23:51	622-96-8	
n-Heptane	ND	ppbv	1.4	2.73		12/28/09 23:51	142-82-5	
Hexachloro-1,3-butadiene	ND	ppbv	1.4	2.73		12/28/09 23:51	87-68-3	
n-Hexane	ND	ppbv	1.4	2.73		12/28/09 23:51	110-54-3	
2-Hexanone	ND	ppbv	1.5	2.73		12/28/09 23:51	591-78-6	
Methylene Chloride	**76.4**	ppbv	1.4	2.73		12/28/09 23:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ppbv	1.5	2.73		12/28/09 23:51	108-10-1	
Methyl-tert-butyl ether	ND	ppbv	2.7	2.73		12/28/09 23:51	1634-04-4	
Propylene	ND	ppbv	5.5	2.73		12/28/09 23:51	115-07-1	
Styrene	ND	ppbv	1.5	2.73		12/28/09 23:51	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ppbv	1.4	2.73		12/28/09 23:51	79-34-5	
Tetrachloroethene	**985**	ppbv	28.4	54.6		12/29/09 00:20	127-18-4	
Tetrahydrofuran	ND	ppbv	1.4	2.73		12/28/09 23:51	109-99-9	
Toluene	**2.5**	ppbv	1.4	2.73		12/28/09 23:51	108-88-3	
1,2,4-Trichlorobenzene	ND	ppbv	1.4	2.73		12/28/09 23:51	120-82-1	
1,1,1-Trichloroethane	**4.3**	ppbv	1.4	2.73		12/28/09 23:51	71-55-6	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10119098

Sample: DPE-OUTLET-0903 **Lab ID: 10119098001** Collected: 12/17/09 15:03 Received: 12/18/09 09:23 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,1,2-Trichloroethane	ND	ppbv	1.4	2.73		12/28/09 23:51	79-00-5	
Trichloroethene	**3.9**	ppbv	1.4	2.73		12/28/09 23:51	79-01-6	
Trichlorofluoromethane	ND	ppbv	1.4	2.73		12/28/09 23:51	75-69-4	
1,1,2-Trichlorotrifluoroethane	**570**	ppbv	28.4	54.6		12/29/09 00:20	76-13-1	
1,2,4-Trimethylbenzene	ND	ppbv	1.4	2.73		12/28/09 23:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ppbv	1.4	2.73		12/28/09 23:51	108-67-8	
Vinyl acetate	ND	ppbv	1.5	2.73		12/28/09 23:51	108-05-4	
Vinyl chloride	ND	ppbv	1.4	2.73		12/28/09 23:51	75-01-4	
m&p-Xylene	ND	ppbv	2.7	2.73		12/28/09 23:51	1330-20-7	
o-Xylene	ND	ppbv	1.4	2.73		12/28/09 23:51	95-47-6	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10119098

QC Batch: AIR/9544
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR
Associated Lab Samples: 10119098001

METHOD BLANK: 730944
Matrix: Air
Associated Lab Samples: 10119098001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ppbv	ND	0.52	12/28/09 18:13	
1,1,2,2-Tetrachloroethane	ppbv	ND	0.52	12/28/09 18:13	
1,1,2-Trichloroethane	ppbv	ND	0.52	12/28/09 18:13	
1,1,2-Trichlorotrifluoroethane	ppbv	ND	0.52	12/28/09 18:13	
1,1-Dichloroethane	ppbv	ND	0.52	12/28/09 18:13	
1,1-Dichloroethene	ppbv	ND	0.52	12/28/09 18:13	
1,2,4-Trichlorobenzene	ppbv	ND	0.52	12/28/09 18:13	
1,2,4-Trimethylbenzene	ppbv	ND	0.51	12/28/09 18:13	
1,2-Dibromoethane (EDB)	ppbv	ND	0.52	12/28/09 18:13	
1,2-Dichlorobenzene	ppbv	ND	0.51	12/28/09 18:13	
1,2-Dichloroethane	ppbv	ND	0.52	12/28/09 18:13	
1,2-Dichloropropane	ppbv	ND	0.52	12/28/09 18:13	
1,3,5-Trimethylbenzene	ppbv	ND	0.52	12/28/09 18:13	
1,3-Butadiene	ppbv	ND	0.52	12/28/09 18:13	
1,3-Dichlorobenzene	ppbv	ND	0.51	12/28/09 18:13	
1,4-Dichlorobenzene	ppbv	ND	0.51	12/28/09 18:13	
2-Butanone (MEK)	ppbv	ND	0.55	12/28/09 18:13	
2-Hexanone	ppbv	ND	0.55	12/28/09 18:13	
4-Ethyltoluene	ppbv	ND	0.53	12/28/09 18:13	
4-Methyl-2-pentanone (MIBK)	ppbv	ND	0.55	12/28/09 18:13	
Acetone	ppbv	ND	0.55	12/28/09 18:13	
Benzene	ppbv	ND	0.52	12/28/09 18:13	
Bromodichloromethane	ppbv	ND	0.51	12/28/09 18:13	
Bromoform	ppbv	ND	0.52	12/28/09 18:13	
Bromomethane	ppbv	ND	0.51	12/28/09 18:13	
Carbon disulfide	ppbv	ND	0.50	12/28/09 18:13	
Carbon tetrachloride	ppbv	ND	0.51	12/28/09 18:13	
Chlorobenzene	ppbv	ND	0.52	12/28/09 18:13	
Chloroethane	ppbv	ND	0.51	12/28/09 18:13	
Chloroform	ppbv	ND	0.51	12/28/09 18:13	
Chloromethane	ppbv	ND	0.50	12/28/09 18:13	
cis-1,2-Dichloroethene	ppbv	ND	0.52	12/28/09 18:13	
cis-1,3-Dichloropropene	ppbv	ND	0.51	12/28/09 18:13	
Cyclohexane	ppbv	ND	0.52	12/28/09 18:13	
Dibromochloromethane	ppbv	ND	0.53	12/28/09 18:13	
Dichlorodifluoromethane	ppbv	ND	0.51	12/28/09 18:13	
Dichlorotetrafluoroethane	ppbv	ND	0.57	12/28/09 18:13	
Ethyl acetate	ppbv	ND	0.51	12/28/09 18:13	
Ethylbenzene	ppbv	ND	0.52	12/28/09 18:13	
Hexachloro-1,3-butadiene	ppbv	ND	0.50	12/28/09 18:13	
m&p-Xylene	ppbv	ND	1.0	12/28/09 18:13	
Methyl-tert-butyl ether	ppbv	ND	1.0	12/28/09 18:13	
Methylene Chloride	ppbv	ND	0.52	12/28/09 18:13	

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10119098

METHOD BLANK: 730944 Matrix: Air

Associated Lab Samples: 10119098001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
n-Heptane	ppbv	ND	0.52	12/28/09 18:13	
n-Hexane	ppbv	ND	0.53	12/28/09 18:13	
o-Xylene	ppbv	ND	0.52	12/28/09 18:13	
Propylene	ppbv	ND	2.0	12/28/09 18:13	
Styrene	ppbv	ND	0.55	12/28/09 18:13	
Tetrachloroethene	ppbv	ND	0.52	12/28/09 18:13	
Tetrahydrofuran	ppbv	ND	0.52	12/28/09 18:13	
Toluene	ppbv	ND	0.52	12/28/09 18:13	
trans-1,2-Dichloroethene	ppbv	ND	1.0	12/28/09 18:13	
trans-1,3-Dichloropropene	ppbv	ND	0.52	12/28/09 18:13	
Trichloroethene	ppbv	ND	0.52	12/28/09 18:13	
Trichlorofluoromethane	ppbv	ND	0.50	12/28/09 18:13	
Vinyl acetate	ppbv	ND	0.55	12/28/09 18:13	
Vinyl chloride	ppbv	ND	0.51	12/28/09 18:13	

LABORATORY CONTROL SAMPLE: 730945

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ppbv	10	10.0	100	60-125	
1,1,2,2-Tetrachloroethane	ppbv	10	11.3	113	57-127	
1,1,2-Trichloroethane	ppbv	10	10.9	109	56-125	
1,1,2-Trichlorotrifluoroethane	ppbv	10	9.0	90	52-133	
1,1-Dichloroethane	ppbv	10	9.8	98	54-127	
1,1-Dichloroethene	ppbv	10	9.2	92	52-129	
1,2,4-Trichlorobenzene	ppbv	10	9.9	99	30-150	
1,2,4-Trimethylbenzene	ppbv	10	11.8	118	52-145	
1,2-Dibromoethane (EDB)	ppbv	10	11.6	116	59-133	
1,2-Dichlorobenzene	ppbv	10	11.1	111	67-135	
1,2-Dichloroethane	ppbv	10	9.7	97	54-125	
1,2-Dichloropropane	ppbv	10	9.8	98	64-125	
1,3,5-Trimethylbenzene	ppbv	10	12.2	122	56-135	
1,3-Butadiene	ppbv	10	9.6	96	55-125	
1,3-Dichlorobenzene	ppbv	10	11.4	114	61-142	
1,4-Dichlorobenzene	ppbv	10	11.5	115	55-142	
2-Butanone (MEK)	ppbv	10	9.7	97	47-141	
2-Hexanone	ppbv	10	9.3	93	41-138	
4-Ethyltoluene	ppbv	10	11.3	113	62-130	
4-Methyl-2-pentanone (MIBK)	ppbv	10	9.6	96	53-134	
Acetone	ppbv	10	9.6	96	44-149	
Benzene	ppbv	10	9.9	99	61-126	
Bromodichloromethane	ppbv	10	11.5	115	54-129	
Bromoform	ppbv	10	9.4	94	56-125	
Bromomethane	ppbv	10	9.8	98	56-128	
Carbon disulfide	ppbv	10	10.8	108	58-150	
Carbon tetrachloride	ppbv	10	10.8	108	55-125	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10119098

LABORATORY CONTROL SAMPLE: 730945

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	ppbv	10	11.3	113	48-138	
Chloroethane	ppbv	10	9.7	97	56-128	
Chloroform	ppbv	10	10.1	101	55-125	
Chloromethane	ppbv	10	9.0	90	50-131	
cis-1,2-Dichloroethene	ppbv	10	10.0	100	64-125	
cis-1,3-Dichloropropene	ppbv	10	11.8	118	61-132	
Cyclohexane	ppbv	10	9.0	90	61-130	
Dibromochloromethane	ppbv	10	9.9	99	51-129	
Dichlorodifluoromethane	ppbv	10	9.1	91	56-132	
Dichlorotetrafluoroethane	ppbv	10	9.1	91	48-125	
Ethyl acetate	ppbv	10	9.6	96	66-149	
Ethylbenzene	ppbv	10	10.9	109	56-137	
Hexachloro-1,3-butadiene	ppbv	10	9.7	97	30-150	
m&p-Xylene	ppbv	20	22.0	110	62-135	
Methyl-tert-butyl ether	ppbv	10	9.5	95	59-125	
Methylene Chloride	ppbv	10	9.3	93	46-143	
n-Heptane	ppbv	10	9.5	95	64-130	
n-Hexane	ppbv	10	10.4	104	61-134	
o-Xylene	ppbv	10	11.5	115	61-134	
Propylene	ppbv	10	8.5	85	62-146	
Styrene	ppbv	10	12.5	125	63-134	
Tetrachloroethene	ppbv	10	10.9	109	61-132	
Tetrahydrofuran	ppbv	10	9.8	98	62-137	
Toluene	ppbv	10	10.8	108	57-132	
trans-1,2-Dichloroethene	ppbv	10	9.7	97	52-130	
trans-1,3-Dichloropropene	ppbv	10	11.9	119	61-129	
Trichloroethene	ppbv	10	10.1	101	72-147	
Trichlorofluoromethane	ppbv	10	9.3	93	58-141	
Vinyl acetate	ppbv	10	9.9	99	56-131	
Vinyl chloride	ppbv	10	9.9	99	56-136	

SAMPLE DUPLICATE: 732287

Parameter	Units	10118987001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ppbv	ND	ND		30	
1,1,2,2-Tetrachloroethane	ppbv	ND	ND		30	
1,1,2-Trichloroethane	ppbv	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ppbv	ND	ND		30	
1,1-Dichloroethane	ppbv	ND	ND		30	
1,1-Dichloroethene	ppbv	ND	ND		30	
1,2,4-Trichlorobenzene	ppbv	ND	ND		30	
1,2,4-Trimethylbenzene	ppbv	8.0	6.9	14	30	
1,2-Dibromoethane (EDB)	ppbv	ND	ND		30	
1,2-Dichlorobenzene	ppbv	ND	ND		30	
1,2-Dichloroethane	ppbv	ND	ND		30	
1,2-Dichloropropane	ppbv	ND	ND		30	
1,3,5-Trimethylbenzene	ppbv	ND	ND		30	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10119098

SAMPLE DUPLICATE: 732287

Parameter	Units	10118987001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,3-Butadiene	ppbv	ND	ND		30	
1,3-Dichlorobenzene	ppbv	ND	ND		30	
1,4-Dichlorobenzene	ppbv	ND	ND		30	
2-Butanone (MEK)	ppbv	ND	ND		30	
2-Hexanone	ppbv	ND	ND		30	
4-Ethyltoluene	ppbv	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ppbv	ND	ND		30	
Acetone	ppbv	13.5	10.7	23	30	
Benzene	ppbv	4.1	3.5	17	30	
Bromodichloromethane	ppbv	ND	ND		30	
Bromoform	ppbv	ND	ND		30	
Bromomethane	ppbv	ND	ND		30	
Carbon disulfide	ppbv	ND	ND		30	
Carbon tetrachloride	ppbv	ND	ND		30	
Chlorobenzene	ppbv	ND	ND		30	
Chloroethane	ppbv	ND	ND		30	
Chloroform	ppbv	ND	ND		30	
Chloromethane	ppbv	ND	ND		30	
cis-1,2-Dichloroethene	ppbv	ND	ND		30	
cis-1,3-Dichloropropene	ppbv	ND	ND		30	
Cyclohexane	ppbv	3.3	2.8J		30	
Dibromochloromethane	ppbv	ND	ND		30	
Dichlorodifluoromethane	ppbv	ND	ND		30	
Dichlorotetrafluoroethane	ppbv	ND	ND		30	
Ethyl acetate	ppbv	ND	ND		30	
Ethylbenzene	ppbv	5.7	4.8	16	30	
Hexachloro-1,3-butadiene	ppbv	ND	ND		30	
m&p-Xylene	ppbv	9.5	7.9	18	30	
Methyl-tert-butyl ether	ppbv	ND	ND		30	
Methylene Chloride	ppbv	53.9	75.7	34	30	R1
n-Heptane	ppbv	ND	ND		30	
n-Hexane	ppbv	9.4	10.9	14	30	
o-Xylene	ppbv	ND	ND		30	
Propylene	ppbv	ND	ND		30	
Styrene	ppbv	ND	ND		30	
Tetrachloroethene	ppbv	ND	ND		30	
Tetrahydrofuran	ppbv	ND	ND		30	
Toluene	ppbv	ND	ND		30	
trans-1,2-Dichloroethene	ppbv	ND	ND		30	
trans-1,3-Dichloropropene	ppbv	ND	ND		30	
Trichloroethene	ppbv	ND	ND		30	
Trichlorofluoromethane	ppbv	ND	ND		30	
Vinyl acetate	ppbv	ND	ND		30	
Vinyl chloride	ppbv	ND	ND		30	

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QUALIFIERS

Project: CRC City of Rochester
Pace Project No.: 10119098

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

ANALYTE QUALIFIERS

R1 RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC City of Rochester
Pace Project No.: 10119098

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10119098001	**DPE-OUTLET-0903**	TO-15	AIR/9544		

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Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Landmark Environmental
Phone: 952-887-9601

Lab Project Number: 10119098
Project Name: CRC City of Rochester

Lab Sample No: 10119098001
Client Sample ID: DPE-OUTLET-0903

ProjSampleNum: 10119098001
Matrix: Air

Date Collected: 12/17/09 15:03
Date Received: 12/18/09 9:23

Air

TO-15

Parameters	Report Limit ppbv	Results ppbv	Report Limit ug/m3	Results ug/m3	DF	Analyzed	CAS No.
1,1,1-Trichloroethane	1.4	4.3	7.8	23.9	2.73	12/28/09 23:51 AEP	71-55-6
1,1,2,2-Tetrachloroethane	1.4	ND	9.8	ND	2.73	12/28/09 23:51 AEP	79-34-5
1,1,2-Trichloroethane	1.4	ND	7.8	ND	2.73	12/28/09 23:51 AEP	79-00-5
1,1,2-Trichlorotrifluoroethane	28.4	570	220	4440	54.6	12/29/09 0:20 AEP	76-13-1
1,1-Dichloroethane	1.4	ND	5.8	ND	2.73	12/28/09 23:51 AEP	75-34-3
1,1-Dichloroethene	1.4	ND	5.6	ND	2.73	12/28/09 23:51 AEP	75-35-4
1,2,4-Trichlorobenzene	1.4	ND	11	ND	2.73	12/28/09 23:51 AEP	120-82-1
1,2,4-Trimethylbenzene	1.4	ND	7	ND	2.73	12/28/09 23:51 AEP	95-63-6
1,2-Dibromoethane (EDB)	1.4	ND	11	ND	2.73	12/28/09 23:51 AEP	106-93-4
1,2-Dichlorobenzene	1.4	ND	8.6	ND	2.73	12/28/09 23:51 AEP	95-50-1
1,2-Dichloroethane	1.4	ND	5.8	ND	2.73	12/28/09 23:51 AEP	107-06-2
1,2-Dichloropropane	1.4	ND	6.6	ND	2.73	12/28/09 23:51 AEP	78-87-5
1,3,5-Trimethylbenzene	1.4	ND	7	ND	2.73	12/28/09 23:51 AEP	108-67-8
1,3-Butadiene	1.4	ND	3.1	ND	2.73	12/28/09 23:51 AEP	106-99-0
1,3-Dichlorobenzene	1.4	ND	8.6	ND	2.73	12/28/09 23:51 AEP	541-73-1
1,4-Dichlorobenzene	1.4	ND	8.6	ND	2.73	12/28/09 23:51 AEP	106-46-7
2-Butanone (MEK)	1.5	ND	4.5	ND	2.73	12/28/09 23:51 AEP	78-93-3
2-Hexanone	1.5	ND	6.2	ND	2.73	12/28/09 23:51 AEP	591-78-6
4-Ethyltoluene	1.4	ND	7	ND	2.73	12/28/09 23:51 AEP	622-96-8
4-Methyl-2-pentanone (MIBK)	1.5	ND	6.2	ND	2.73	12/28/09 23:51 AEP	108-10-1
Acetone	30	52.2	72	126	54.6	12/29/09 0:20 AEP	67-64-1
Benzene	1.4	5.0	4.5	16.2	2.73	12/28/09 23:51 AEP	71-43-2
Bromodichloromethane	1.4	ND	9.5	ND	2.73	12/28/09 23:51 AEP	75-27-4
Bromoform	1.4	ND	15	ND	2.73	12/28/09 23:51 AEP	75-25-2
Bromomethane	1.4	ND	5.5	ND	2.73	12/28/09 23:51 AEP	74-83-9
Carbon disulfide	1.4	ND	4.4	ND	2.73	12/28/09 23:51 AEP	75-15-0
Carbon tetrachloride	1.4	ND	9	ND	2.73	12/28/09 23:51 AEP	56-23-5
Chlorobenzene	1.4	ND	6.6	ND	2.73	12/28/09 23:51 AEP	108-90-7
Chloroethane	1.4	ND	3.8	ND	2.73	12/28/09 23:51 AEP	75-00-3
Chloroform	1.4	ND	6.9	ND	2.73	12/28/09 23:51 AEP	67-66-3
Chloromethane	1.4	ND	2.9	ND	2.73	12/28/09 23:51 AEP	74-87-3
cis-1,2-Dichloroethene	1.4	11.7	5.6	47.2	2.73	12/28/09 23:51 AEP	156-59-2
cis-1,3-Dichloropropene	1.4	ND	6.5	ND	2.73	12/28/09 23:51 AEP	10061-01-5
Cyclohexane	28.4	219	99	766	54.6	12/29/09 0:20 AEP	110-82-7
Dibromochloromethane	1.4	ND	12	ND	2.73	12/28/09 23:51 AEP	124-48-1
Dichlorodifluoromethane	1.4	ND	7	ND	2.73	12/28/09 23:51 AEP	75-71-8
Dichlorotetrafluoroethane	1.6	ND	11	ND	2.73	12/28/09 23:51 AEP	76-14-2
Ethyl acetate	1.4	ND	5.1	ND	2.73	12/28/09 23:51 AEP	141-78-6
Ethylbenzene	1.4	ND	6.2	ND	2.73	12/28/09 23:51 AEP	100-41-4
Hexachloro-1,3-butadiene	1.4	ND	15	ND	2.73	12/28/09 23:51 AEP	87-68-3
m&p-Xylene	2.7	ND	12	ND	2.73	12/28/09 23:51 AEP	1330-20-7

SUPPLEMENTAL REPORT
Units Conversion Request

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Landmark Environmental
Phone: 952-887-9601

Lab Project Number: 10119098
Project Name: CRC City of Rochester

Methylene Chloride	1.4	76.4	4.9	270	2.73	12/28/09 23:51	AEP	75-09-2
Methyl-tert-butyl ether	2.7	ND	9.9	ND	2.73	12/28/09 23:51	AEP	1634-04-4
n-Heptane	1.4	ND	5.8	ND	2.73	12/28/09 23:51	AEP	142-82-5
n-Hexane	1.4	ND	5	ND	2.73	12/28/09 23:51	AEP	110-54-3
o-Xylene	1.4	ND	6.2	ND	2.73	12/28/09 23:51	AEP	95-47-6
Propylene	5.5	ND	9.6	ND	2.73	12/28/09 23:51	AEP	115-07-1
Styrene	1.5	ND	6.5	ND	2.73	12/28/09 23:51	AEP	100-42-5
Tetrachloroethene	28.4	985	200	6790	54.6	12/29/09 0:20	AEP	127-18-4
Tetrahydrofuran	1.4	ND	4.2	ND	2.73	12/28/09 23:51	AEP	109-99-9
Toluene	1.4	2.5	5.4	9.58	2.73	12/28/09 23:51	AEP	108-88-3
trans-1,2-Dichloroethene	2.7	ND	11	ND	2.73	12/28/09 23:51	AEP	156-60-5
trans-1,3-Dichloropropene	1.4	ND	6.5	ND	2.73	12/28/09 23:51	AEP	10061-02-6
Trichloroethene	1.4	3.9	7.6	21.3	2.73	12/28/09 23:51	AEP	79-01-6
Trichlorofluoromethane	1.4	ND	8	ND	2.73	12/28/09 23:51	AEP	75-69-4
Vinyl acetate	1.5	ND	5.4	ND	2.73	12/28/09 23:51	AEP	108-05-4
Vinyl chloride	1.4	ND	3.6	ND	2.73	12/28/09 23:51	AEP	75-01-4

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10119098

Page: of

Section A — **Required** Client Information:

Company: Landmark Environmental	
Address: 2042 W. 98th Street	
Bloomington, MN 55431	
Email To: jskramstad@landmarkenv.com	
Phone: 952-887-9601, ext 205	Fax: 952-887-9605
Requested Due Date/TAT: Normal	

Section B — **Required** Project Information:

Report To: Jason Skramstad
Copy To: Eric Gabrielson
Purchase Order No.:
Project Name: City of Rochester
Project Number: CRC

Section C — Invoice Information:

Attention: Jason Skramstad
Company Name: Landmark Environmental, LLC
Address: 2042 W. 98th St., Bloomington, MN 55431
Pace Quote Reference:
Pace Project Manager: Carolynne Trout
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER_____

SITE LOCATION ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☐ WI ☐ OTHER____

Section D — **Required** Client Information

SAMPLE ID

One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL WP
WIPE	AR
AIR	OT
OTHER	TS
TISSUE	

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G+GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: TO-15	Pace Project Number / Lab I.D.
1	DPE-OUTLET-0903	A	C	12/17/09	9:03	12/17/09	15:03												X	10119098001
2																				
3																				
4																				
5																				
6																				
7																				
8																				
5																				
6																				
7																				
8																				

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
			[signature]	12-18-09	09:23

SAMPLE CONDITIONS

	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Eric Gabrielson

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM / DD / YY)

F:\PROJECTS\Crc-City of Rochester\Analytical Reports\coc air 12-17-09.XLS

Pace Analytical

AIR Sample Condition Upon Receipt

Client Name: LANDMARK Project # 10119098

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☒ Commercial ☐ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other_____

Optional: Proj. Due Date: Proj. Name:

Tracking #:_____

Date and Initials of person examining contents: 12-18-09 JK

		Comments:
Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☐Yes ☒No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Media: AIR (can)		11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.

Samples Received: 1 CAN, 1 FC

Canisters		Flow Controllers		Stand Alone G		Tedlar Bags	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
DPE-Outlet	0903		302				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted:_____ Date/Time:_____

Comments/ Resolution:_____

Project Manager Review: Deana Anderson **Date:** 12/21/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

A106 Rev.01 (22May2009)

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

January 06, 2010

Mr. Jason Skramstad
Landmark Environmental
2042 W. 98th. St.
Minneapolis, MN 55431

RE: Project: City Of Rochester CRC
Pace Project No.: 10119276

Dear Mr. Skramstad:
Enclosed are the analytical results for sample(s) received by the laboratory between December 18, 2009 and December 21, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carolynne Trout

Carolynne Trout

carolynne.trout@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: City Of Rochester CRC
Pace Project No.: 10119276

Minnesota Certification IDs

1700 Elm Street SE, Suite 200 Minneapolis, MN 55414
Alaska Certification #: UST-078
Washington Certification #: C754
Tennessee Certification #: 02818
Pennsylvania Certification #: 68-00563
Oregon Certification #: MN200001
North Dakota Certification #: R-036
North Carolina Certification #: 530
New York Certification #: 11647
New Jersey Certification #: MN-002
Montana Certification #: MT CERT0092
Minnesota Certification #: 027-053-137
Michigan DEQ Certification #: 9909
Maine Certification #: 2007029
Louisiana Certification #: LA080009
Louisiana Certification #: 03086
Kansas Certification #: E-10167
Iowa Certification #: 368
Illinois Certification #: 200011
Florida/NELAP Certification #: E87605
California Certification #: 01155CA
Arizona Certification #: AZ-0014
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: City Of Rochester CRC
Pace Project No.: 10119276

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10119276001	**AS-Influent**	Water	12/17/09 10:00	12/21/09 09:23
10119276002	**AS-Effluent**	Water	12/17/09 10:01	12/21/09 09:23
10119276003	**AS-IN Vial 2**	Water	12/17/09 10:00	12/18/09 09:23

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SAMPLE ANALYTE COUNT

Project: City Of Rochester CRC
Pace Project No.: 10119276

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10119276001	**AS-Influent**	EPA 624	CNC	82
10119276002	**AS-Effluent**	EPA 624	CNC	82
10119276003	**AS-IN Vial 2**	EPA 624	CNC	82

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ANALYTICAL RESULTS

Project: City Of Rochester CRC
Pace Project No.: 10119276

Sample: AS-Influent **Lab ID: 10119276001** Collected: 12/17/09 10:00 Received: 12/21/09 09:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV	Analytical Method: EPA 624							
Acetone	ND	ug/L	10.0	1		12/28/09 16:33	67-64-1	
Acrolein	ND	ug/L	40.0	1		12/28/09 16:33	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1		12/28/09 16:33	107-13-1	
Allyl chloride	ND	ug/L	4.0	1		12/28/09 16:33	107-05-1	
Benzene	ND	ug/L	1.0	1		12/28/09 16:33	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/28/09 16:33	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/28/09 16:33	74-97-5	
Bromodichloromethane	ND	ug/L	4.0	1		12/28/09 16:33	75-27-4	
Bromoform	ND	ug/L	8.0	1		12/28/09 16:33	75-25-2	
Bromomethane	ND	ug/L	4.0	1		12/28/09 16:33	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		12/28/09 16:33	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		12/28/09 16:33	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		12/28/09 16:33	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		12/28/09 16:33	98-06-6	
Carbon disulfide	ND	ug/L	1.0	1		12/28/09 16:33	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		12/28/09 16:33	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/28/09 16:33	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/28/09 16:33	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	25.0	1		12/28/09 16:33	110-75-8	
Chloroform	ND	ug/L	1.0	1		12/28/09 16:33	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/28/09 16:33	74-87-3	
Chloroprene	ND	ug/L	1.0	1		12/28/09 16:33	126-99-8	
2-Chlorotoluene	ND	ug/L	1.0	1		12/28/09 16:33	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/28/09 16:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		12/28/09 16:33	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/28/09 16:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/28/09 16:33	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/28/09 16:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/28/09 16:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/28/09 16:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/28/09 16:33	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/28/09 16:33	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/28/09 16:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/28/09 16:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/28/09 16:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/28/09 16:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/28/09 16:33	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		12/28/09 16:33	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/28/09 16:33	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/28/09 16:33	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		12/28/09 16:33	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/28/09 16:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		12/28/09 16:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		12/28/09 16:33	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		12/28/09 16:33	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		12/28/09 16:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		12/28/09 16:33	87-68-3	

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ANALYTICAL RESULTS

Project: City Of Rochester CRC
Pace Project No.: 10119276

Sample: AS-Influent **Lab ID: 10119276001** Collected: 12/17/09 10:00 Received: 12/21/09 09:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV	Analytical Method: EPA 624							
2-Hexanone	ND	ug/L	4.0	1		12/28/09 16:33	591-78-6	
Iodomethane	ND	ug/L	4.0	1		12/28/09 16:33	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/28/09 16:33	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/28/09 16:33	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		12/28/09 16:33	75-09-2	
2-Methylnaphthalene	ND	ug/L	5.0	1		12/28/09 16:33	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/28/09 16:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/28/09 16:33	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		12/28/09 16:33	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		12/28/09 16:33	103-65-1	
Styrene	ND	ug/L	1.0	1		12/28/09 16:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/28/09 16:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/28/09 16:33	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/28/09 16:33	127-18-4	
Tetrahydrofuran	**11.7**	ug/L	10.0	1		12/28/09 16:33	109-99-9	
Toluene	ND	ug/L	1.0	1		12/28/09 16:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/28/09 16:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/28/09 16:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/28/09 16:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	4.0	1		12/28/09 16:33	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/28/09 16:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	4.0	1		12/28/09 16:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/28/09 16:33	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		12/28/09 16:33	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		12/28/09 16:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		12/28/09 16:33	108-67-8	
Vinyl acetate	ND	ug/L	20.0	1		12/28/09 16:33	108-05-4	
Vinyl chloride	ND	ug/L	0.40	1		12/28/09 16:33	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/28/09 16:33	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/28/09 16:33	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		12/28/09 16:33	95-47-6	
Dibromofluoromethane (S)	105	%	75-125	1		12/28/09 16:33	1868-53-7	
4-Bromofluorobenzene (S)	100	%	75-125	1		12/28/09 16:33	460-00-4	
Toluene-d8 (S)	97	%	75-125	1		12/28/09 16:33	2037-26-5	
1,2-Dichloroethane-d4 (S)	111	%	75-125	1		12/28/09 16:33	17060-07-0	

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ANALYTICAL RESULTS

Project: City Of Rochester CRC
Pace Project No.: 10119276

Sample: AS-Effluent **Lab ID: 10119276002** Collected: 12/17/09 10:01 Received: 12/21/09 09:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV	Analytical Method: EPA 624							
Acetone	ND	ug/L	10.0	1		12/28/09 16:12	67-64-1	
Acrolein	ND	ug/L	40.0	1		12/28/09 16:12	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1		12/28/09 16:12	107-13-1	
Allyl chloride	ND	ug/L	4.0	1		12/28/09 16:12	107-05-1	
Benzene	ND	ug/L	1.0	1		12/28/09 16:12	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/28/09 16:12	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/28/09 16:12	74-97-5	
Bromodichloromethane	ND	ug/L	4.0	1		12/28/09 16:12	75-27-4	
Bromoform	ND	ug/L	8.0	1		12/28/09 16:12	75-25-2	
Bromomethane	ND	ug/L	4.0	1		12/28/09 16:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		12/28/09 16:12	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		12/28/09 16:12	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		12/28/09 16:12	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		12/28/09 16:12	98-06-6	
Carbon disulfide	ND	ug/L	1.0	1		12/28/09 16:12	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		12/28/09 16:12	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/28/09 16:12	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/28/09 16:12	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	25.0	1		12/28/09 16:12	110-75-8	
Chloroform	ND	ug/L	1.0	1		12/28/09 16:12	67-66-3	
Chloromethane	**1.3**	ug/L	1.0	1		12/28/09 16:12	74-87-3	
Chloroprene	ND	ug/L	1.0	1		12/28/09 16:12	126-99-8	
2-Chlorotoluene	ND	ug/L	1.0	1		12/28/09 16:12	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/28/09 16:12	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		12/28/09 16:12	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/28/09 16:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/28/09 16:12	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/28/09 16:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/28/09 16:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/28/09 16:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/28/09 16:12	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/28/09 16:12	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/28/09 16:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/28/09 16:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/28/09 16:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/28/09 16:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/28/09 16:12	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		12/28/09 16:12	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/28/09 16:12	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/28/09 16:12	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		12/28/09 16:12	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/28/09 16:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		12/28/09 16:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		12/28/09 16:12	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		12/28/09 16:12	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		12/28/09 16:12	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		12/28/09 16:12	87-68-3	

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ANALYTICAL RESULTS

Project: City Of Rochester CRC
Pace Project No.: 10119276

Sample: AS-Effluent **Lab ID: 10119276002** Collected: 12/17/09 10:01 Received: 12/21/09 09:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV	Analytical Method: EPA 624							
2-Hexanone	ND	ug/L	4.0	1		12/28/09 16:12	591-78-6	
Iodomethane	ND	ug/L	4.0	1		12/28/09 16:12	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/28/09 16:12	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/28/09 16:12	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		12/28/09 16:12	75-09-2	
2-Methylnaphthalene	ND	ug/L	5.0	1		12/28/09 16:12	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/28/09 16:12	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/28/09 16:12	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		12/28/09 16:12	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		12/28/09 16:12	103-65-1	
Styrene	ND	ug/L	1.0	1		12/28/09 16:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/28/09 16:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/28/09 16:12	79-34-5	
Tetrachloroethene	**22.7**	ug/L	1.0	1		12/28/09 16:12	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		12/28/09 16:12	109-99-9	
Toluene	ND	ug/L	1.0	1		12/28/09 16:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/28/09 16:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/28/09 16:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/28/09 16:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	4.0	1		12/28/09 16:12	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/28/09 16:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	4.0	1		12/28/09 16:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/28/09 16:12	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		12/28/09 16:12	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		12/28/09 16:12	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		12/28/09 16:12	108-67-8	
Vinyl acetate	ND	ug/L	20.0	1		12/28/09 16:12	108-05-4	
Vinyl chloride	ND	ug/L	0.40	1		12/28/09 16:12	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/28/09 16:12	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/28/09 16:12	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		12/28/09 16:12	95-47-6	
Dibromofluoromethane (S)	102	%	75-125	1		12/28/09 16:12	1868-53-7	
4-Bromofluorobenzene (S)	100	%	75-125	1		12/28/09 16:12	460-00-4	
Toluene-d8 (S)	97	%	75-125	1		12/28/09 16:12	2037-26-5	
1,2-Dichloroethane-d4 (S)	108	%	75-125	1		12/28/09 16:12	17060-07-0	

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ANALYTICAL RESULTS

Project: City Of Rochester CRC
Pace Project No.: 10119276

Sample: AS-IN Vial 2 **Lab ID: 10119276003** Collected: 12/17/09 10:00 Received: 12/18/09 09:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV	Analytical Method: EPA 624							
Acetone	ND	ug/L	10.0	1		12/30/09 15:52	67-64-1	
Acrolein	ND	ug/L	40.0	1		12/30/09 15:52	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1		12/30/09 15:52	107-13-1	
Allyl chloride	ND	ug/L	4.0	1		12/30/09 15:52	107-05-1	
Benzene	ND	ug/L	1.0	1		12/30/09 15:52	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/30/09 15:52	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/30/09 15:52	74-97-5	
Bromodichloromethane	ND	ug/L	4.0	1		12/30/09 15:52	75-27-4	
Bromoform	ND	ug/L	8.0	1		12/30/09 15:52	75-25-2	
Bromomethane	ND	ug/L	4.0	1		12/30/09 15:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		12/30/09 15:52	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		12/30/09 15:52	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		12/30/09 15:52	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		12/30/09 15:52	98-06-6	
Carbon disulfide	ND	ug/L	1.0	1		12/30/09 15:52	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		12/30/09 15:52	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/30/09 15:52	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/30/09 15:52	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	25.0	1		12/30/09 15:52	110-75-8	
Chloroform	ND	ug/L	1.0	1		12/30/09 15:52	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/30/09 15:52	74-87-3	
Chloroprene	ND	ug/L	1.0	1		12/30/09 15:52	126-99-8	
2-Chlorotoluene	ND	ug/L	1.0	1		12/30/09 15:52	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/30/09 15:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		12/30/09 15:52	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/30/09 15:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/30/09 15:52	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/30/09 15:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/30/09 15:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/30/09 15:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/30/09 15:52	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/30/09 15:52	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/30/09 15:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/30/09 15:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/30/09 15:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/30/09 15:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/30/09 15:52	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		12/30/09 15:52	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/30/09 15:52	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/30/09 15:52	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		12/30/09 15:52	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/30/09 15:52	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		12/30/09 15:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		12/30/09 15:52	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		12/30/09 15:52	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		12/30/09 15:52	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		12/30/09 15:52	87-68-3	

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ANALYTICAL RESULTS

Project: City Of Rochester CRC
Pace Project No.: 10119276

Sample: AS-IN Vial 2 **Lab ID: 10119276003** Collected: 12/17/09 10:00 Received: 12/18/09 09:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV	Analytical Method: EPA 624							
2-Hexanone	ND	ug/L	4.0	1		12/30/09 15:52	591-78-6	
Iodomethane	ND	ug/L	4.0	1		12/30/09 15:52	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/30/09 15:52	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/30/09 15:52	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		12/30/09 15:52	75-09-2	
2-Methylnaphthalene	ND	ug/L	5.0	1		12/30/09 15:52	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/30/09 15:52	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/30/09 15:52	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		12/30/09 15:52	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		12/30/09 15:52	103-65-1	
Styrene	ND	ug/L	1.0	1		12/30/09 15:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/30/09 15:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/30/09 15:52	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/30/09 15:52	127-18-4	
Tetrahydrofuran	**11.5**	ug/L	10.0	1		12/30/09 15:52	109-99-9	
Toluene	ND	ug/L	1.0	1		12/30/09 15:52	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/30/09 15:52	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/30/09 15:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/30/09 15:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	4.0	1		12/30/09 15:52	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/30/09 15:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	4.0	1		12/30/09 15:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/30/09 15:52	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		12/30/09 15:52	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		12/30/09 15:52	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		12/30/09 15:52	108-67-8	
Vinyl acetate	ND	ug/L	20.0	1		12/30/09 15:52	108-05-4	
Vinyl chloride	ND	ug/L	0.40	1		12/30/09 15:52	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/30/09 15:52	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/30/09 15:52	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		12/30/09 15:52	95-47-6	
Dibromofluoromethane (S)	105	%	75-125	1		12/30/09 15:52	1868-53-7	
4-Bromofluorobenzene (S)	98	%	75-125	1		12/30/09 15:52	460-00-4	
Toluene-d8 (S)	95	%	75-125	1		12/30/09 15:52	2037-26-5	
1,2-Dichloroethane-d4 (S)	110	%	75-125	1		12/30/09 15:52	17060-07-0	

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QUALITY CONTROL DATA

Project: City Of Rochester CRC
Pace Project No.: 10119276

QC Batch: MSV/13684 Analysis Method: EPA 624
QC Batch Method: EPA 624 Analysis Description: 624 MSV
Associated Lab Samples: 10119276001, 10119276002

METHOD BLANK: 731443 Matrix: Water
Associated Lab Samples: 10119276001, 10119276002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	12/28/09 14:29	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/28/09 14:29	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/28/09 14:29	
1,1,2-Trichloroethane	ug/L	ND	4.0	12/28/09 14:29	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	12/28/09 14:29	
1,1-Dichloroethane	ug/L	ND	1.0	12/28/09 14:29	
1,1-Dichloroethene	ug/L	ND	1.0	12/28/09 14:29	
1,1-Dichloropropene	ug/L	ND	1.0	12/28/09 14:29	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	12/28/09 14:29	
1,2,3-Trichloropropane	ug/L	ND	1.0	12/28/09 14:29	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/28/09 14:29	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	12/28/09 14:29	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	12/28/09 14:29	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/28/09 14:29	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/28/09 14:29	
1,2-Dichloroethane	ug/L	ND	1.0	12/28/09 14:29	
1,2-Dichloropropane	ug/L	ND	1.0	12/28/09 14:29	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	12/28/09 14:29	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/28/09 14:29	
1,3-Dichloropropane	ug/L	ND	1.0	12/28/09 14:29	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/28/09 14:29	
2,2-Dichloropropane	ug/L	ND	1.0	12/28/09 14:29	
2-Butanone (MEK)	ug/L	ND	4.0	12/28/09 14:29	
2-Chloroethylvinyl ether	ug/L	ND	25.0	12/28/09 14:29	
2-Chlorotoluene	ug/L	ND	1.0	12/28/09 14:29	
2-Hexanone	ug/L	ND	4.0	12/28/09 14:29	
2-Methylnaphthalene	ug/L	ND	5.0	12/28/09 14:29	
4-Chlorotoluene	ug/L	ND	1.0	12/28/09 14:29	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	12/28/09 14:29	
Acetone	ug/L	ND	10.0	12/28/09 14:29	
Acrolein	ug/L	ND	40.0	12/28/09 14:29	
Acrylonitrile	ug/L	ND	10.0	12/28/09 14:29	
Allyl chloride	ug/L	ND	4.0	12/28/09 14:29	
Benzene	ug/L	ND	1.0	12/28/09 14:29	
Bromobenzene	ug/L	ND	1.0	12/28/09 14:29	
Bromochloromethane	ug/L	ND	1.0	12/28/09 14:29	
Bromodichloromethane	ug/L	ND	4.0	12/28/09 14:29	
Bromoform	ug/L	ND	8.0	12/28/09 14:29	
Bromomethane	ug/L	ND	4.0	12/28/09 14:29	
Carbon disulfide	ug/L	ND	1.0	12/28/09 14:29	
Carbon tetrachloride	ug/L	ND	1.0	12/28/09 14:29	
Chlorobenzene	ug/L	ND	1.0	12/28/09 14:29	
Chloroethane	ug/L	ND	1.0	12/28/09 14:29	

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QUALITY CONTROL DATA

Project: City Of Rochester CRC
Pace Project No.: 10119276

METHOD BLANK: 731443 Matrix: Water

Associated Lab Samples: 10119276001, 10119276002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroform	ug/L	ND	1.0	12/28/09 14:29	
Chloromethane	ug/L	ND	1.0	12/28/09 14:29	
Chloroprene	ug/L	ND	1.0	12/28/09 14:29	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/28/09 14:29	
cis-1,3-Dichloropropene	ug/L	ND	4.0	12/28/09 14:29	
Dibromochloromethane	ug/L	ND	1.0	12/28/09 14:29	
Dibromomethane	ug/L	ND	1.0	12/28/09 14:29	
Dichlorodifluoromethane	ug/L	ND	1.0	12/28/09 14:29	
Dichlorofluoromethane	ug/L	ND	1.0	12/28/09 14:29	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	12/28/09 14:29	
Ethylbenzene	ug/L	ND	1.0	12/28/09 14:29	
Hexachloro-1,3-butadiene	ug/L	ND	4.0	12/28/09 14:29	
Iodomethane	ug/L	ND	4.0	12/28/09 14:29	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	12/28/09 14:29	
m&p-Xylene	ug/L	ND	2.0	12/28/09 14:29	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/28/09 14:29	
Methylene Chloride	ug/L	ND	4.0	12/28/09 14:29	
n-Butylbenzene	ug/L	ND	1.0	12/28/09 14:29	
n-Propylbenzene	ug/L	ND	1.0	12/28/09 14:29	
Naphthalene	ug/L	ND	4.0	12/28/09 14:29	
o-Xylene	ug/L	ND	1.0	12/28/09 14:29	
p-Isopropyltoluene	ug/L	ND	1.0	12/28/09 14:29	
sec-Butylbenzene	ug/L	ND	1.0	12/28/09 14:29	
Styrene	ug/L	ND	1.0	12/28/09 14:29	
tert-Butylbenzene	ug/L	ND	1.0	12/28/09 14:29	
Tetrachloroethene	ug/L	ND	1.0	12/28/09 14:29	
Tetrahydrofuran	ug/L	ND	10.0	12/28/09 14:29	
Toluene	ug/L	ND	1.0	12/28/09 14:29	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/28/09 14:29	
trans-1,3-Dichloropropene	ug/L	ND	4.0	12/28/09 14:29	
Trichloroethene	ug/L	ND	1.0	12/28/09 14:29	
Trichlorofluoromethane	ug/L	ND	4.0	12/28/09 14:29	
Vinyl acetate	ug/L	ND	20.0	12/28/09 14:29	
Vinyl chloride	ug/L	ND	0.40	12/28/09 14:29	
Xylene (Total)	ug/L	ND	3.0	12/28/09 14:29	
1,2-Dichloroethane-d4 (S)	%	106	75-125	12/28/09 14:29	
4-Bromofluorobenzene (S)	%	98	75-125	12/28/09 14:29	
Dibromofluoromethane (S)	%	104	75-125	12/28/09 14:29	
Toluene-d8 (S)	%	99	75-125	12/28/09 14:29	

LABORATORY CONTROL SAMPLE: 731444

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.5	101	75-129	
1,1,1-Trichloroethane	ug/L	50	49.6	99	73-144	

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QUALITY CONTROL DATA

Project: City Of Rochester CRC
Pace Project No.: 10119276

LABORATORY CONTROL SAMPLE: 731444

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	50	49.1	98	75-125	
1,1,2-Trichloroethane	ug/L	50	49.3	99	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	45.4	91	75-143	
1,1-Dichloroethane	ug/L	50	50.6	101	75-135	
1,1-Dichloroethene	ug/L	50	47.3	95	75-133	
1,1-Dichloropropene	ug/L	50	48.6	97	75-131	
1,2,3-Trichlorobenzene	ug/L	50	50.7	101	73-141	
1,2,3-Trichloropropane	ug/L	50	48.1	96	75-126	
1,2,4-Trichlorobenzene	ug/L	50	51.0	102	70-148	
1,2,4-Trimethylbenzene	ug/L	50	49.5	99	75-141	
1,2-Dibromo-3-chloropropane	ug/L	50	50.1	100	64-135	
1,2-Dibromoethane (EDB)	ug/L	50	49.3	99	75-125	
1,2-Dichlorobenzene	ug/L	50	48.7	97	75-125	
1,2-Dichloroethane	ug/L	50	51.3	103	75-136	
1,2-Dichloropropane	ug/L	50	50.2	100	75-130	
1,3,5-Trimethylbenzene	ug/L	50	49.3	99	75-141	
1,3-Dichlorobenzene	ug/L	50	48.5	97	75-125	
1,3-Dichloropropane	ug/L	50	49.8	100	75-125	
1,4-Dichlorobenzene	ug/L	50	48.6	97	75-125	
2,2-Dichloropropane	ug/L	50	53.3	107	50-150	
2-Butanone (MEK)	ug/L	50	45.7	91	58-138	
2-Chloroethylvinyl ether	ug/L	125	149	119	50-150	
2-Chlorotoluene	ug/L	50	48.4	97	75-132	
2-Hexanone	ug/L	50	48.6	97	65-135	
2-Methylnaphthalene	ug/L	50	50.1	100	62-150	
4-Chlorotoluene	ug/L	50	48.9	98	75-135	
4-Methyl-2-pentanone (MIBK)	ug/L	50	47.6	95	69-137	
Acetone	ug/L	125	106	85	52-141	
Acrolein	ug/L	500	507	101	50-150	
Acrylonitrile	ug/L	500	487	97	75-130	
Allyl chloride	ug/L	50	45.6	91	68-150	
Benzene	ug/L	50	47.9	96	75-125	
Bromobenzene	ug/L	50	48.7	97	75-125	
Bromochloromethane	ug/L	50	50.0	100	75-129	
Bromodichloromethane	ug/L	50	50.6	101	75-142	
Bromoform	ug/L	100	101	101	66-135	
Bromomethane	ug/L	50	53.7	107	57-150	
Carbon disulfide	ug/L	50	44.3	89	65-132	
Carbon tetrachloride	ug/L	50	49.7	99	75-148	
Chlorobenzene	ug/L	50	48.0	96	75-125	
Chloroethane	ug/L	50	54.0	108	66-142	
Chloroform	ug/L	50	50.2	100	75-131	
Chloromethane	ug/L	50	50.6	101	52-147	
Chloroprene	ug/L	50	48.6	97	71-147	
cis-1,2-Dichloroethene	ug/L	50	48.8	98	75-126	
cis-1,3-Dichloropropene	ug/L	50	50.9	102	69-150	
Dibromochloromethane	ug/L	50	50.2	100	73-138	
Dibromomethane	ug/L	50	50.3	101	75-127	

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QUALITY CONTROL DATA

Project: City Of Rochester CRC
Pace Project No.: 10119276

LABORATORY CONTROL SAMPLE: 731444

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dichlorodifluoromethane	ug/L	50	49.5	99	50-150	
Dichlorofluoromethane	ug/L	50	48.9	98	75-129	
Diethyl ether (Ethyl ether)	ug/L	50	49.1	98	75-126	
Ethylbenzene	ug/L	50	48.2	96	75-132	
Hexachloro-1,3-butadiene	ug/L	50	49.8	100	75-129	
Iodomethane	ug/L	50	44.5	89	73-150	
Isopropylbenzene (Cumene)	ug/L	50	48.6	97	75-142	
m&p-Xylene	ug/L	100	96.1	96	75-131	
Methyl-tert-butyl ether	ug/L	50	48.4	97	75-130	
Methylene Chloride	ug/L	50	47.6	95	71-125	
n-Butylbenzene	ug/L	50	50.6	101	70-148	
n-Propylbenzene	ug/L	50	48.7	97	75-136	
Naphthalene	ug/L	50	49.1	98	69-145	
o-Xylene	ug/L	50	49.1	98	75-129	
p-Isopropyltoluene	ug/L	50	49.2	98	75-132	
sec-Butylbenzene	ug/L	50	48.8	98	75-136	
Styrene	ug/L	50	48.9	98	75-125	
tert-Butylbenzene	ug/L	50	49.6	99	75-135	
Tetrachloroethene	ug/L	50	47.3	95	75-125	
Tetrahydrofuran	ug/L	500	486	97	63-144	
Toluene	ug/L	50	47.2	94	75-125	
trans-1,2-Dichloroethene	ug/L	50	47.3	95	72-135	
trans-1,3-Dichloropropene	ug/L	50	52.2	104	62-150	
Trichloroethene	ug/L	50	48.4	97	75-125	
Trichlorofluoromethane	ug/L	50	50.9	102	67-150	
Vinyl acetate	ug/L	50	52.7	105	55-150	
Vinyl chloride	ug/L	50	50.4	101	63-147	
Xylene (Total)	ug/L	150	145	97	75-130	
1,2-Dichloroethane-d4 (S)	%			107	75-125	
4-Bromofluorobenzene (S)	%			101	75-125	
Dibromofluoromethane (S)	%			102	75-125	
Toluene-d8 (S)	%			99	75-125	

MATRIX SPIKE SAMPLE: 732199

Parameter	Units	10119508001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	21.1	106	70-136	
1,1,1-Trichloroethane	ug/L	ND	20	22.3	111	68-150	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	21.2	106	75-125	
1,1,2-Trichloroethane	ug/L	ND	20	20.6	103	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	24.1	121	75-150	
1,1-Dichloroethane	ug/L	ND	20	21.3	107	67-143	
1,1-Dichloroethene	ug/L	ND	20	22.4	112	75-147	
1,1-Dichloropropene	ug/L	ND	20	21.9	109	75-141	
1,2,3-Trichlorobenzene	ug/L	ND	20	24.2	121	71-141	
1,2,3-Trichloropropane	ug/L	ND	20	20.7	103	75-128	
1,2,4-Trichlorobenzene	ug/L	ND	20	24.1	120	61-148	

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QUALITY CONTROL DATA

Project: City Of Rochester CRC
Pace Project No.: 10119276

MATRIX SPIKE SAMPLE: 732199

Parameter	Units	10119508001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	ND	20	21.9	109	65-145	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20.1	100	64-135	
1,2-Dibromoethane (EDB)	ug/L	ND	20	19.7	99	75-126	
1,2-Dichlorobenzene	ug/L	ND	20	21.4	107	75-127	
1,2-Dichloroethane	ug/L	ND	20	21.3	107	70-138	
1,2-Dichloropropane	ug/L	ND	20	21.0	105	75-130	
1,3,5-Trimethylbenzene	ug/L	ND	20	22.0	110	61-150	
1,3-Dichlorobenzene	ug/L	ND	20	21.9	109	75-126	
1,3-Dichloropropane	ug/L	ND	20	20.7	103	75-125	
1,4-Dichlorobenzene	ug/L	ND	20	21.9	110	75-125	
2,2-Dichloropropane	ug/L	ND	20	24.6	123	50-150	
2-Butanone (MEK)	ug/L	ND	20	15.9	79	50-141	
2-Chloroethylvinyl ether	ug/L	ND	50	5.4J	11	50-150	P5
2-Chlorotoluene	ug/L	ND	20	22.3	112	75-137	
2-Hexanone	ug/L	ND	20	17.5	88	66-135	
2-Methylnaphthalene	ug/L	ND	20	25.5	128	62-150	
4-Chlorotoluene	ug/L	ND	20	22.1	110	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	17.9	90	62-142	
Acetone	ug/L	ND	50	31.9	64	50-150	
Acrolein	ug/L	ND	200	194	97	50-150	
Acrylonitrile	ug/L	ND	200	195	97	70-135	
Allyl chloride	ug/L	ND	20	19.8	99	50-150	
Benzene	ug/L	ND	20	21.0	105	75-125	
Bromobenzene	ug/L	ND	20	21.2	106	75-125	
Bromochloromethane	ug/L	ND	20	20.8	104	73-137	
Bromodichloromethane	ug/L	ND	20	21.1	105	70-142	
Bromoform	ug/L	ND	40	39.8	99	55-135	
Bromomethane	ug/L	ND	20	24.6	123	50-150	
Carbon disulfide	ug/L	ND	20	20.9	105	50-150	
Carbon tetrachloride	ug/L	ND	20	23.0	115	64-150	
Chlorobenzene	ug/L	ND	20	20.8	104	75-125	
Chloroethane	ug/L	ND	20	25.7	128	59-150	
Chloroform	ug/L	ND	20	21.3	107	75-132	
Chloromethane	ug/L	ND	20	24.1	121	52-150	
Chloroprene	ug/L	ND	20	21.9	110	54-150	
cis-1,2-Dichloroethene	ug/L	18.0	20	38.8	104	64-144	
cis-1,3-Dichloropropene	ug/L	ND	20	20.7	104	56-150	
Dibromochloromethane	ug/L	ND	20	20.5	102	60-138	
Dibromomethane	ug/L	ND	20	20.6	103	75-127	
Dichlorodifluoromethane	ug/L	ND	20	27.0	135	50-150	
Dichlorofluoromethane	ug/L	ND	20	21.8	109	74-142	
Diethyl ether (Ethyl ether)	ug/L	ND	20	19.7	99	75-127	
Ethylbenzene	ug/L	ND	20	21.2	106	75-134	
Hexachloro-1,3-butadiene	ug/L	ND	20	27.8	139	63-150	
Iodomethane	ug/L	ND	20	19.7	98	50-150	
Isopropylbenzene (Cumene)	ug/L	ND	20	21.4	107	69-147	
m&p-Xylene	ug/L	ND	40	41.9	105	75-133	
Methyl-tert-butyl ether	ug/L	ND	20	19.5	98	73-131	

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QUALITY CONTROL DATA

Project: City Of Rochester CRC
Pace Project No.: 10119276

MATRIX SPIKE SAMPLE: 732199

Parameter	Units	10119508001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	ND	20	20.2	101	68-126	
n-Butylbenzene	ug/L	ND	20	24.9	125	59-150	
n-Propylbenzene	ug/L	ND	20	23.1	115	72-143	
Naphthalene	ug/L	ND	20	21.1	106	57-148	
o-Xylene	ug/L	ND	20	20.6	103	75-131	
p-Isopropyltoluene	ug/L	ND	20	23.6	118	75-137	
sec-Butylbenzene	ug/L	ND	20	23.8	119	75-144	
Styrene	ug/L	ND	20	19.6	98	75-134	
tert-Butylbenzene	ug/L	ND	20	23.2	116	68-150	
Tetrachloroethene	ug/L	ND	20	21.8	109	75-130	
Tetrahydrofuran	ug/L	ND	200	191	95	60-148	
Toluene	ug/L	ND	20	21.0	105	75-125	
trans-1,2-Dichloroethene	ug/L	ND	20	22.0	107	75-145	
trans-1,3-Dichloropropene	ug/L	ND	20	21.0	105	50-150	
Trichloroethene	ug/L	31.2	20	52.0	104	73-132	
Trichlorofluoromethane	ug/L	ND	20	26.1	131	67-150	
Vinyl acetate	ug/L	ND	20	21.6	108	50-150	
Vinyl chloride	ug/L	1.3	20	26.0	123	63-150	
Xylene (Total)	ug/L	ND	60	62.5	104	72-138	
1,2-Dichloroethane-d4 (S)	%				104	75-125	
4-Bromofluorobenzene (S)	%				105	75-125	
Dibromofluoromethane (S)	%				102	75-125	
Toluene-d8 (S)	%				101	75-125	

SAMPLE DUPLICATE: 732200

Parameter	Units	10119508003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,2-Trichloroethane	ug/L	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	ND		30	
1,1-Dichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethene	ug/L	ND	ND		30	
1,1-Dichloropropene	ug/L	ND	ND		30	
1,2,3-Trichlorobenzene	ug/L	ND	ND		30	
1,2,3-Trichloropropane	ug/L	ND	ND		30	
1,2,4-Trichlorobenzene	ug/L	ND	ND		30	
1,2,4-Trimethylbenzene	ug/L	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		30	
1,2-Dichlorobenzene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L	ND	ND		30	
1,2-Dichloropropane	ug/L	ND	ND		30	
1,3,5-Trimethylbenzene	ug/L	ND	ND		30	
1,3-Dichlorobenzene	ug/L	ND	ND		30	
1,3-Dichloropropane	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: City Of Rochester CRC
Pace Project No.: 10119276

SAMPLE DUPLICATE: 732200

Parameter	Units	10119508003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dichlorobenzene	ug/L	ND	ND		30	
2,2-Dichloropropane	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	ND	ND		30	
2-Chloroethylvinyl ether	ug/L	ND	ND		30	
2-Chlorotoluene	ug/L	ND	ND		30	
2-Hexanone	ug/L	ND	ND		30	
2-Methylnaphthalene	ug/L	ND	ND		30	
4-Chlorotoluene	ug/L	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	
Acetone	ug/L	ND	ND		30	
Acrolein	ug/L	ND	ND		30	
Acrylonitrile	ug/L	ND	ND		30	
Allyl chloride	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Bromobenzene	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	
Carbon disulfide	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroethane	ug/L	ND	ND		30	
Chloroform	ug/L	ND	ND		30	
Chloromethane	ug/L	ND	ND		30	
Chloroprene	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	12.3	12.2	0	30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Dichlorofluoromethane	ug/L	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
Iodomethane	ug/L	ND	ND		30	
Isopropylbenzene (Cumene)	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
n-Butylbenzene	ug/L	ND	ND		30	
n-Propylbenzene	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
sec-Butylbenzene	ug/L	ND	ND		30	
Styrene	ug/L	ND	ND		30	
tert-Butylbenzene	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: City Of Rochester CRC
Pace Project No.: 10119276

SAMPLE DUPLICATE: 732200

Parameter	Units	10119508003 Result	Dup Result	RPD	Max RPD	Qualifiers
Tetrachloroethene	ug/L	ND	ND		30	
Tetrahydrofuran	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	.59J		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	15.1	15.0	1	30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl acetate	ug/L	ND	ND		30	
Vinyl chloride	ug/L	0.70	0.70	0	30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	106	107	1		
4-Bromofluorobenzene (S)	%	98	98	0		
Dibromofluoromethane (S)	%	100	103	3		
Toluene-d8 (S)	%	96	97	1		

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QUALITY CONTROL DATA

Project: City Of Rochester CRC
Pace Project No.: 10119276

QC Batch: MSV/13705 Analysis Method: EPA 624
QC Batch Method: EPA 624 Analysis Description: 624 MSV
Associated Lab Samples: 10119276003

METHOD BLANK: 732757 Matrix: Water
Associated Lab Samples: 10119276003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	12/30/09 14:30	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/30/09 14:30	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/30/09 14:30	
1,1,2-Trichloroethane	ug/L	ND	4.0	12/30/09 14:30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	12/30/09 14:30	
1,1-Dichloroethane	ug/L	ND	1.0	12/30/09 14:30	
1,1-Dichloroethene	ug/L	ND	1.0	12/30/09 14:30	
1,1-Dichloropropene	ug/L	ND	1.0	12/30/09 14:30	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	12/30/09 14:30	
1,2,3-Trichloropropane	ug/L	ND	1.0	12/30/09 14:30	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/30/09 14:30	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	12/30/09 14:30	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	12/30/09 14:30	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/30/09 14:30	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/30/09 14:30	
1,2-Dichloroethane	ug/L	ND	1.0	12/30/09 14:30	
1,2-Dichloropropane	ug/L	ND	1.0	12/30/09 14:30	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	12/30/09 14:30	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/30/09 14:30	
1,3-Dichloropropane	ug/L	ND	1.0	12/30/09 14:30	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/30/09 14:30	
2,2-Dichloropropane	ug/L	ND	1.0	12/30/09 14:30	
2-Butanone (MEK)	ug/L	ND	4.0	12/30/09 14:30	
2-Chloroethylvinyl ether	ug/L	ND	25.0	12/30/09 14:30	
2-Chlorotoluene	ug/L	ND	1.0	12/30/09 14:30	
2-Hexanone	ug/L	ND	4.0	12/30/09 14:30	
2-Methylnaphthalene	ug/L	ND	5.0	12/30/09 14:30	
4-Chlorotoluene	ug/L	ND	1.0	12/30/09 14:30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	12/30/09 14:30	
Acetone	ug/L	ND	10.0	12/30/09 14:30	
Acrolein	ug/L	ND	40.0	12/30/09 14:30	
Acrylonitrile	ug/L	ND	10.0	12/30/09 14:30	
Allyl chloride	ug/L	ND	4.0	12/30/09 14:30	
Benzene	ug/L	ND	1.0	12/30/09 14:30	
Bromobenzene	ug/L	ND	1.0	12/30/09 14:30	
Bromochloromethane	ug/L	ND	1.0	12/30/09 14:30	
Bromodichloromethane	ug/L	ND	4.0	12/30/09 14:30	
Bromoform	ug/L	ND	8.0	12/30/09 14:30	
Bromomethane	ug/L	ND	4.0	12/30/09 14:30	
Carbon disulfide	ug/L	ND	1.0	12/30/09 14:30	
Carbon tetrachloride	ug/L	ND	1.0	12/30/09 14:30	
Chlorobenzene	ug/L	ND	1.0	12/30/09 14:30	
Chloroethane	ug/L	ND	1.0	12/30/09 14:30	

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QUALITY CONTROL DATA

Project: City Of Rochester CRC
Pace Project No.: 10119276

METHOD BLANK: 732757 Matrix: Water

Associated Lab Samples: 10119276003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroform	ug/L	ND	1.0	12/30/09 14:30	
Chloromethane	ug/L	ND	1.0	12/30/09 14:30	
Chloroprene	ug/L	ND	1.0	12/30/09 14:30	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/30/09 14:30	
cis-1,3-Dichloropropene	ug/L	ND	4.0	12/30/09 14:30	
Dibromochloromethane	ug/L	ND	1.0	12/30/09 14:30	
Dibromomethane	ug/L	ND	1.0	12/30/09 14:30	
Dichlorodifluoromethane	ug/L	ND	1.0	12/30/09 14:30	
Dichlorofluoromethane	ug/L	ND	1.0	12/30/09 14:30	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	12/30/09 14:30	
Ethylbenzene	ug/L	ND	1.0	12/30/09 14:30	
Hexachloro-1,3-butadiene	ug/L	ND	4.0	12/30/09 14:30	
Iodomethane	ug/L	ND	4.0	12/30/09 14:30	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	12/30/09 14:30	
m&p-Xylene	ug/L	ND	2.0	12/30/09 14:30	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/30/09 14:30	
Methylene Chloride	ug/L	ND	4.0	12/30/09 14:30	
n-Butylbenzene	ug/L	ND	1.0	12/30/09 14:30	
n-Propylbenzene	ug/L	ND	1.0	12/30/09 14:30	
Naphthalene	ug/L	ND	4.0	12/30/09 14:30	
o-Xylene	ug/L	ND	1.0	12/30/09 14:30	
p-Isopropyltoluene	ug/L	ND	1.0	12/30/09 14:30	
sec-Butylbenzene	ug/L	ND	1.0	12/30/09 14:30	
Styrene	ug/L	ND	1.0	12/30/09 14:30	
tert-Butylbenzene	ug/L	ND	1.0	12/30/09 14:30	
Tetrachloroethene	ug/L	ND	1.0	12/30/09 14:30	
Tetrahydrofuran	ug/L	ND	10.0	12/30/09 14:30	
Toluene	ug/L	ND	1.0	12/30/09 14:30	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/30/09 14:30	
trans-1,3-Dichloropropene	ug/L	ND	4.0	12/30/09 14:30	
Trichloroethene	ug/L	ND	1.0	12/30/09 14:30	
Trichlorofluoromethane	ug/L	ND	4.0	12/30/09 14:30	
Vinyl acetate	ug/L	ND	20.0	12/30/09 14:30	
Vinyl chloride	ug/L	ND	0.40	12/30/09 14:30	
Xylene (Total)	ug/L	ND	3.0	12/30/09 14:30	
1,2-Dichloroethane-d4 (S)	%	113	75-125	12/30/09 14:30	
4-Bromofluorobenzene (S)	%	96	75-125	12/30/09 14:30	
Dibromofluoromethane (S)	%	105	75-125	12/30/09 14:30	
Toluene-d8 (S)	%	96	75-125	12/30/09 14:30	

LABORATORY CONTROL SAMPLE: 732758

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.6	103	75-129	
1,1,1-Trichloroethane	ug/L	50	49.8	100	73-144	

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QUALITY CONTROL DATA

Project: City Of Rochester CRC
Pace Project No.: 10119276

LABORATORY CONTROL SAMPLE: 732758

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	50	49.5	99	75-125	
1,1,2-Trichloroethane	ug/L	50	50.4	101	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	46.7	93	75-143	
1,1-Dichloroethane	ug/L	50	50.0	100	75-135	
1,1-Dichloroethene	ug/L	50	47.4	95	75-133	
1,1-Dichloropropene	ug/L	50	47.7	95	75-131	
1,2,3-Trichlorobenzene	ug/L	50	50.7	101	73-141	
1,2,3-Trichloropropane	ug/L	50	49.7	99	75-126	
1,2,4-Trichlorobenzene	ug/L	50	50.6	101	70-148	
1,2,4-Trimethylbenzene	ug/L	50	49.3	99	75-141	
1,2-Dibromo-3-chloropropane	ug/L	50	50.8	102	64-135	
1,2-Dibromoethane (EDB)	ug/L	50	49.8	100	75-125	
1,2-Dichlorobenzene	ug/L	50	49.8	100	75-125	
1,2-Dichloroethane	ug/L	50	52.7	105	75-136	
1,2-Dichloropropane	ug/L	50	50.6	101	75-130	
1,3,5-Trimethylbenzene	ug/L	50	49.6	99	75-141	
1,3-Dichlorobenzene	ug/L	50	49.8	100	75-125	
1,3-Dichloropropane	ug/L	50	50.5	101	75-125	
1,4-Dichlorobenzene	ug/L	50	49.3	99	75-125	
2,2-Dichloropropane	ug/L	50	48.7	97	50-150	
2-Butanone (MEK)	ug/L	50	43.5	87	58-138	
2-Chloroethylvinyl ether	ug/L	125	136	109	50-150	
2-Chlorotoluene	ug/L	50	49.3	99	75-132	
2-Hexanone	ug/L	50	44.0	88	65-135	
2-Methylnaphthalene	ug/L	50	47.7	95	62-150	
4-Chlorotoluene	ug/L	50	49.3	99	75-135	
4-Methyl-2-pentanone (MIBK)	ug/L	50	46.3	93	69-137	
Acetone	ug/L	125	99.8	80	52-141	
Acrolein	ug/L	500	495	99	50-150	
Acrylonitrile	ug/L	500	483	97	75-130	
Allyl chloride	ug/L	50	45.9	92	68-150	
Benzene	ug/L	50	47.4	95	75-125	
Bromobenzene	ug/L	50	49.9	100	75-125	
Bromochloromethane	ug/L	50	50.7	101	75-129	
Bromodichloromethane	ug/L	50	53.0	106	75-142	
Bromoform	ug/L	100	104	104	66-135	
Bromomethane	ug/L	50	53.1	106	57-150	
Carbon disulfide	ug/L	50	43.0	86	65-132	
Carbon tetrachloride	ug/L	50	50.8	102	75-148	
Chlorobenzene	ug/L	50	48.9	98	75-125	
Chloroethane	ug/L	50	51.5	103	66-142	
Chloroform	ug/L	50	50.7	101	75-131	
Chloromethane	ug/L	50	49.0	98	52-147	
Chloroprene	ug/L	50	48.9	98	71-147	
cis-1,2-Dichloroethene	ug/L	50	48.5	97	75-126	
cis-1,3-Dichloropropene	ug/L	50	50.7	101	69-150	
Dibromochloromethane	ug/L	50	51.8	104	73-138	
Dibromomethane	ug/L	50	51.6	103	75-127	

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QUALITY CONTROL DATA

Project: City Of Rochester CRC
Pace Project No.: 10119276

LABORATORY CONTROL SAMPLE: 732758

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dichlorodifluoromethane	ug/L	50	49.2	98	50-150	
Dichlorofluoromethane	ug/L	50	49.2	98	75-129	
Diethyl ether (Ethyl ether)	ug/L	50	48.2	96	75-126	
Ethylbenzene	ug/L	50	48.7	97	75-132	
Hexachloro-1,3-butadiene	ug/L	50	52.2	104	75-129	
Iodomethane	ug/L	50	44.4	89	73-150	
Isopropylbenzene (Cumene)	ug/L	50	49.0	98	75-142	
m&p-Xylene	ug/L	100	97.0	97	75-131	
Methyl-tert-butyl ether	ug/L	50	43.6	87	75-130	
Methylene Chloride	ug/L	50	47.8	96	71-125	
n-Butylbenzene	ug/L	50	50.1	100	70-148	
n-Propylbenzene	ug/L	50	49.0	98	75-136	
Naphthalene	ug/L	50	47.1	94	69-145	
o-Xylene	ug/L	50	49.5	99	75-129	
p-Isopropyltoluene	ug/L	50	49.5	99	75-132	
sec-Butylbenzene	ug/L	50	48.9	98	75-136	
Styrene	ug/L	50	49.3	99	75-125	
tert-Butylbenzene	ug/L	50	49.9	100	75-135	
Tetrachloroethene	ug/L	50	48.8	98	75-125	
Tetrahydrofuran	ug/L	500	484	97	63-144	
Toluene	ug/L	50	47.7	95	75-125	
trans-1,2-Dichloroethene	ug/L	50	47.4	95	72-135	
trans-1,3-Dichloropropene	ug/L	50	51.8	104	62-150	
Trichloroethene	ug/L	50	49.3	99	75-125	
Trichlorofluoromethane	ug/L	50	51.1	102	67-150	
Vinyl acetate	ug/L	50	51.5	103	55-150	
Vinyl chloride	ug/L	50	48.2	96	63-147	
Xylene (Total)	ug/L	150	146	98	75-130	
1,2-Dichloroethane-d4 (S)	%			107	75-125	
4-Bromofluorobenzene (S)	%			103	75-125	
Dibromofluoromethane (S)	%			103	75-125	
Toluene-d8 (S)	%			100	75-125	

MATRIX SPIKE SAMPLE: 733070

Parameter	Units	10119649001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	21.6	108	70-136	
1,1,1-Trichloroethane	ug/L	ND	20	22.7	114	68-150	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	21.8	109	75-125	
1,1,2-Trichloroethane	ug/L	ND	20	21.2	106	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	24.7	124	75-150	
1,1-Dichloroethane	ug/L	ND	20	22.1	110	67-143	
1,1-Dichloroethene	ug/L	ND	20	22.3	112	75-147	
1,1-Dichloropropene	ug/L	ND	20	22.5	112	75-141	
1,2,3-Trichlorobenzene	ug/L	ND	20	25.3	126	71-141	
1,2,3-Trichloropropane	ug/L	ND	20	22.7	114	75-128	
1,2,4-Trichlorobenzene	ug/L	ND	20	24.8	124	61-148	

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QUALITY CONTROL DATA

Project: City Of Rochester CRC
Pace Project No.: 10119276

MATRIX SPIKE SAMPLE: 733070

Parameter	Units	10119649001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	ND	20	22.4	112	65-145	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	21.8	109	64-135	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20.6	103	75-126	
1,2-Dichlorobenzene	ug/L	ND	20	22.2	111	75-127	
1,2-Dichloroethane	ug/L	ND	20	21.8	109	70-138	
1,2-Dichloropropane	ug/L	ND	20	21.5	108	75-130	
1,3,5-Trimethylbenzene	ug/L	ND	20	23.4	117	61-150	
1,3-Dichlorobenzene	ug/L	ND	20	22.8	114	75-126	
1,3-Dichloropropane	ug/L	ND	20	21.1	105	75-125	
1,4-Dichlorobenzene	ug/L	ND	20	22.7	113	75-125	
2,2-Dichloropropane	ug/L	ND	20	22.5	113	50-150	
2-Butanone (MEK)	ug/L	ND	20	15.6	78	50-141	
2-Chloroethylvinyl ether	ug/L	ND	50	ND	7	50-150	P5
2-Chlorotoluene	ug/L	ND	20	23.0	115	75-137	
2-Hexanone	ug/L	ND	20	16.2	81	66-135	
2-Methylnaphthalene	ug/L	ND	20	24.9	124	62-150	
4-Chlorotoluene	ug/L	ND	20	23.0	115	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	17.3	87	62-142	
Acetone	ug/L	ND	50	33.9	68	50-150	
Acrolein	ug/L	ND	200	199	100	50-150	
Acrylonitrile	ug/L	ND	200	199	100	70-135	
Allyl chloride	ug/L	ND	20	19.9	99	50-150	
Benzene	ug/L	ND	20	20.9	105	75-125	
Bromobenzene	ug/L	ND	20	22.3	112	75-125	
Bromochloromethane	ug/L	ND	20	21.2	106	73-137	
Bromodichloromethane	ug/L	ND	20	22.0	110	70-142	
Bromoform	ug/L	ND	40	42.2	106	55-135	
Bromomethane	ug/L	ND	20	26.3	131	50-150	
Carbon disulfide	ug/L	ND	20	20.2	101	50-150	
Carbon tetrachloride	ug/L	ND	20	23.9	119	64-150	
Chlorobenzene	ug/L	ND	20	21.5	108	75-125	
Chloroethane	ug/L	ND	20	24.0	120	59-150	
Chloroform	ug/L	ND	20	22.0	110	75-132	
Chloromethane	ug/L	ND	20	23.0	115	52-150	
Chloroprene	ug/L	ND	20	22.3	112	54-150	
cis-1,2-Dichloroethene	ug/L	ND	20	21.2	106	64-144	
cis-1,3-Dichloropropene	ug/L	ND	20	20.6	103	56-150	
Dibromochloromethane	ug/L	ND	20	21.5	108	60-138	
Dibromomethane	ug/L	ND	20	21.4	107	75-127	
Dichlorodifluoromethane	ug/L	ND	20	25.7	129	50-150	
Dichlorofluoromethane	ug/L	ND	20	22.5	112	74-142	
Diethyl ether (Ethyl ether)	ug/L	ND	20	19.2	96	75-127	
Ethylbenzene	ug/L	ND	20	21.3	107	75-134	
Hexachloro-1,3-butadiene	ug/L	ND	20	29.8	149	63-150	
Iodomethane	ug/L	ND	20	20.7	104	50-150	
Isopropylbenzene (Cumene)	ug/L	ND	20	22.0	110	69-147	
m&p-Xylene	ug/L	ND	40	42.7	107	75-133	
Methyl-tert-butyl ether	ug/L	ND	20	18.4	92	73-131	

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QUALITY CONTROL DATA

Project: City Of Rochester CRC
Pace Project No.: 10119276

MATRIX SPIKE SAMPLE: 733070

Parameter	Units	10119649001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	ND	20	20.8	104	68-126	
n-Butylbenzene	ug/L	ND	20	25.5	128	59-150	
n-Propylbenzene	ug/L	ND	20	23.8	119	72-143	
Naphthalene	ug/L	ND	20	21.6	108	57-148	
o-Xylene	ug/L	ND	20	21.1	105	75-131	
p-Isopropyltoluene	ug/L	ND	20	23.9	120	75-137	
sec-Butylbenzene	ug/L	ND	20	24.7	124	75-144	
Styrene	ug/L	ND	20	19.8	99	75-134	
tert-Butylbenzene	ug/L	ND	20	24.1	121	68-150	
Tetrachloroethene	ug/L	ND	20	22.8	114	75-130	
Tetrahydrofuran	ug/L	ND	200	190	95	60-148	
Toluene	ug/L	ND	20	21.4	107	75-125	
trans-1,2-Dichloroethene	ug/L	ND	20	21.8	109	75-145	
trans-1,3-Dichloropropene	ug/L	ND	20	21.1	105	50-150	
Trichloroethene	ug/L	ND	20	22.3	112	73-132	
Trichlorofluoromethane	ug/L	ND	20	25.6	128	67-150	
Vinyl acetate	ug/L	ND	20	21.0	105	50-150	
Vinyl chloride	ug/L	ND	20	23.4	117	63-150	
Xylene (Total)	ug/L	ND	60	63.8	106	72-138	
1,2-Dichloroethane-d4 (S)	%				104	75-125	
4-Bromofluorobenzene (S)	%				103	75-125	
Dibromofluoromethane (S)	%				101	75-125	
Toluene-d8 (S)	%				102	75-125	

SAMPLE DUPLICATE: 733069

Parameter	Units	10119190001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,2-Trichloroethane	ug/L	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	ND		30	
1,1-Dichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethene	ug/L	ND	ND		30	
1,1-Dichloropropene	ug/L	ND	ND		30	
1,2,3-Trichlorobenzene	ug/L	ND	ND		30	
1,2,3-Trichloropropane	ug/L	ND	ND		30	
1,2,4-Trichlorobenzene	ug/L	ND	ND		30	
1,2,4-Trimethylbenzene	ug/L	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		30	
1,2-Dichlorobenzene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L	ND	ND		30	
1,2-Dichloropropane	ug/L	ND	ND		30	
1,3,5-Trimethylbenzene	ug/L	ND	ND		30	
1,3-Dichlorobenzene	ug/L	ND	ND		30	
1,3-Dichloropropane	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: City Of Rochester CRC
Pace Project No.: 10119276

SAMPLE DUPLICATE: 733069

Parameter	Units	10119190001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dichlorobenzene	ug/L	ND	ND		30	
2,2-Dichloropropane	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	ND	ND		30	
2-Chloroethylvinyl ether	ug/L	ND	ND		30	
2-Chlorotoluene	ug/L	ND	ND		30	
2-Hexanone	ug/L	ND	ND		30	
2-Methylnaphthalene	ug/L	ND	ND		30	
4-Chlorotoluene	ug/L	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	
Acetone	ug/L	ND	ND		30	
Acrolein	ug/L	ND	ND		30	
Acrylonitrile	ug/L	ND	ND		30	
Allyl chloride	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Bromobenzene	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	
Carbon disulfide	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroethane	ug/L	ND	ND		30	
Chloroform	ug/L	ND	ND		30	
Chloromethane	ug/L	ND	ND		30	
Chloroprene	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	ND	ND		30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Dichlorofluoromethane	ug/L	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
Iodomethane	ug/L	ND	ND		30	
Isopropylbenzene (Cumene)	ug/L	ND	ND		30	
m&p-Xylene	ug/L		ND	0	30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
n-Butylbenzene	ug/L	ND	ND		30	
n-Propylbenzene	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L		ND	0	30	
p-Isopropyltoluene	ug/L	ND	ND		30	
sec-Butylbenzene	ug/L	ND	ND		30	
Styrene	ug/L	ND	ND		30	
tert-Butylbenzene	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: City Of Rochester CRC
Pace Project No.: 10119276

SAMPLE DUPLICATE: 733069

Parameter	Units	10119190001 Result	Dup Result	RPD	Max RPD	Qualifiers
Tetrachloroethene	ug/L	ND	ND		30	
Tetrahydrofuran	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl acetate	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	112	114	1		
4-Bromofluorobenzene (S)	%	98	99	1		
Dibromofluoromethane (S)	%	104	104	0		
Toluene-d8 (S)	%	96	95	1		

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QUALIFIERS

Project: City Of Rochester CRC
Pace Project No.: 10119276

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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U - Indicates the compound was analyzed for, but not detected.

SAMPLE QUALIFIERS

Sample: 10119276003

[1] 2 vials were recieved marked AS-IN. The first was reported as sample 10119276001. The second was requested for analysis 12/29/09 per Eric Gabrielson at Landmark.

ANALYTE QUALIFIERS

P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: City Of Rochester CRC
Pace Project No.: 10119276

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10119276001	**AS-Influent**	EPA 624	MSV/13684		
10119276002	**AS-Effluent**	EPA 624	MSV/13684		
10119276003	**AS-IN Vial 2**	EPA 624	MSV/13705		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10119776

Page: of

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Landmark Environmental	Report To: Jason Skramstad	Attention: Jason Skramstad
Address: 2042 W. 98th Street	Copy To: Eric Gabrielson	Company Name: Landmark Environmental, LLC
Bloomington, MN 55431		Address: 2042 W. 98th St., Bloomington, MN 55431
Email To: jskramstad@landmarkenv.com	Purchase Order No.:	Pace Quote Reference:
Phone: 952-887-9601, ext 205 Fax: 952-887-9605	Project Name: City of Rochester	Pace Project Manager: Carolynne Trout
Requested Due Date/TAT: Normal	Project Number: CRC	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER_____

SITE LOCATION ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☐ WI ☐ OTHER____

Section D Required Client Information

SAMPLE ID

One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL WP
WIPE	AR
AIR	OT
OTHER	TS
TISSUE	

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G+GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis: EPA 624	Pace Project Number Lab I.D.
1	AS-Influent	W	G	12/17/09	10:00				2									X	001 1043
2	AS-Effluent	W	G	12/17/09	10:01				2									X	002
3																			
4																			
5																			
6																			
7																			
8																			
5																			
6																			
7																			
8																			

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
			[signature]	12/18	0923

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
3.0	(N)	(N)	(N)
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: [signature]

SIGNATURE of SAMPLER: Eric Gabrielson DATE Signed (MM / DD / YY)

Sample Condition Upon Receipt

Pace Analytical

Client Name: Landmark **Project #** 10119276

Optional
Proj. Due Date:
Proj. Name:

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☒ Commercial ☐ Pace Other ______

Tracking #: ______

Custody Seal on Cooler/Box Present: ☐ yes ☒ no **Seals intact:** ☐ yes ☒ no

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other ______ **Temp Blank:** Yes X No ______

Thermometer Used 80344042 or (179425) **Type of Ice:** (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 3.0°

Temp should be above freezing to 6°C

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 12-18-09 MZ

	Yes	No	N/A	Comments:
Chain of Custody Present:	☒	☐	☐	1.
Chain of Custody Filled Out:	☒	☐	☐	2.
Chain of Custody Relinquished:	☐	☒	☐	3.
Sampler Name & Signature on COC:	☒	☐	☐	4.
Samples Arrived within Hold Time:	☒	☐	☐	5.
Short Hold Time Analysis (<72hr):	☐	☒	☐	6.
Rush Turn Around Time Requested:	☐	☒	☐	7.
Sufficient Volume:	☒	☐	☐	8.
Correct Containers Used:	☒	☐	☐	9.
-Pace Containers Used:	☒	☐	☐	
Containers Intact:	☐	☒	☐	10. AS-OUT 1 vial broken
Filtered volume received for Dissolved tests	☐	☐	☒	11.
Sample Labels match COC:	☐	☒	☐	12. C.O.C says AS-Influent & AS Effluent
-Includes date/time/ID/Analysis Matrix: WT				Sample's say AS-In & AS-OUT
All containers needing acid/base preservation have been checked. Noncompliance are noted in 13.	☐	☐	☒	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ HCl
All containers needing preservation are found to be in compliance with EPA recommendation.	☐	☐	☒	Samp #
Exceptions: (VOA), Coliform, TOC, Oil and Grease, WI-DRO (water)	☒	☐		Initial when completed: ______ Lot # of added preservative: ______
Samples checked for dechlorination:	☐	☐	☒	14.
Headspace in VOA Vials (>6mm):	☐	☒	☐	15.
Trip Blank Present:	☐	☒	☐	16.
Trip Blank Custody Seals Present	☐	☐	☒	
Pace Trip Blank Lot # (if purchased): —				

Client Notification/ Resolution: **Field Data Required?** Y / N

Person Contacted: Jason Skramstad Date/Time: 12/18/09, 12/21/09

Comments/ Resolution:

See email attached - Sample marked 10:01 coll time is AS-Effluent (Dualonly)

Per Eric Gabrielson 12/29 - run second vial marked AS-IN. CMW

Project Manager Review: CMW **Date:** 12/21/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

F-L213Rev.00, 05Aug2009

Pace Analytical Services, Inc. 1700 Elm Street SE, Suite 200, Minneapolis, MN 55414

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Landmark Environmental
Phone: 952-887-9601

Lab Project Number: 10120575
Project Name: CRC City of Rochester

Lab Sample No: 10120575001 ProjSampleNum: 10120575001 Date Collected: 01/14/10 15:23
Client Sample ID: DPE-OUTLET-1042 Matrix: Air Date Received: 01/15/10 12:34

Air

TO-15

Parameters	Results	Units	Report Limit	DF	Analyzed		CAS No.	Qualifiers
1,1,1-Trichloroethane	ND	ug/m3	94000	32563.2	01/22/10 12:13	AEP	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/m3	120000	32563.2	01/22/10 12:13	AEP	79-34-5	
1,1,2-Trichloroethane	ND	ug/m3	94000	32563.2	01/22/10 12:13	AEP	79-00-5	
1,1,2-Trichlorotrifluoroethane	2720000	ug/m3	130000	32563.2	01/22/10 12:13	AEP	76-13-1	
1,1-Dichloroethane	ND	ug/m3	70000	32563.2	01/22/10 12:13	AEP	75-34-3	
1,1-Dichloroethene	ND	ug/m3	68000	32563.2	01/22/10 12:13	AEP	75-35-4	
1,2,4-Trichlorobenzene	ND	ug/m3	130000	32563.2	01/22/10 12:13	AEP	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/m3	83000	32563.2	01/22/10 12:13	AEP	95-63-6	
1,2-Dibromoethane (EDB)	ND	ug/m3	130000	32563.2	01/22/10 12:13	AEP	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	100000	32563.2	01/22/10 12:13	AEP	95-50-1	
1,2-Dichloroethane	ND	ug/m3	70000	32563.2	01/22/10 12:13	AEP	107-06-2	
1,2-Dichloropropane	ND	ug/m3	79000	32563.2	01/22/10 12:13	AEP	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/m3	84000	32563.2	01/22/10 12:13	AEP	108-67-8	
1,3-Butadiene	ND	ug/m3	38000	32563.2	01/22/10 12:13	AEP	106-99-0	
1,3-Dichlorobenzene	ND	ug/m3	100000	32563.2	01/22/10 12:13	AEP	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	100000	32563.2	01/22/10 12:13	AEP	106-46-7	
2-Butanone (MEK)	ND	ug/m3	54000	32563.2	01/22/10 12:13	AEP	78-93-3	
2-Hexanone	ND	ug/m3	75000	32563.2	01/22/10 12:13	AEP	591-78-6	
4-Ethyltoluene	ND	ug/m3	86000	32563.2	01/22/10 12:13	AEP	622-96-8	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	75000	32563.2	01/22/10 12:13	AEP	108-10-1	
Acetone	76800	ug/m3	43000	32563.2	01/22/10 12:13	AEP	67-64-1	
Benzene	ND	ug/m3	55000	32563.2	01/22/10 12:13	AEP	71-43-2	
Bromodichloromethane	ND	ug/m3	110000	32563.2	01/22/10 12:13	AEP	75-27-4	
Bromoform	ND	ug/m3	180000	32563.2	01/22/10 12:13	AEP	75-25-2	
Bromomethane	ND	ug/m3	66000	32563.2	01/22/10 12:13	AEP	74-83-9	
Carbon disulfide	ND	ug/m3	52000	32563.2	01/22/10 12:13	AEP	75-15-0	
Carbon tetrachloride	ND	ug/m3	110000	32563.2	01/22/10 12:13	AEP	56-23-5	
Chlorobenzene	ND	ug/m3	79000	32563.2	01/22/10 12:13	AEP	108-90-7	
Chloroethane	ND	ug/m3	45000	32563.2	01/22/10 12:13	AEP	75-00-3	
Chloroform	ND	ug/m3	82000	32563.2	01/22/10 12:13	AEP	67-66-3	
Chloromethane	ND	ug/m3	34000	32563.2	01/22/10 12:13	AEP	74-87-3	
cis-1,2-Dichloroethene	ND	ug/m3	68000	32563.2	01/22/10 12:13	AEP	156-59-2	
cis-1,3-Dichloropropene	ND	ug/m3	77000	32563.2	01/22/10 12:13	AEP	10061-01-5	
Cyclohexane	ND	ug/m3	59000	32563.2	01/22/10 12:13	AEP	110-82-7	
Dibromochloromethane	ND	ug/m3	150000	32563.2	01/22/10 12:13	AEP	124-48-1	
Dichlorodifluoromethane	ND	ug/m3	83000	32563.2	01/22/10 12:13	AEP	75-71-8	D3
Dichlorotetrafluoroethane	ND	ug/m3	130000	32563.2	01/22/10 12:13	AEP	76-14-2	
Ethyl acetate	ND	ug/m3	61000	32563.2	01/22/10 12:13	AEP	141-78-6	

SUPPLEMENTAL REPORT

Units Conversion Request

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Landmark Environmental
Phone: 952-887-9601

Lab Project Number: 10120575
Project Name: CRC City of Rochester

Ethylbenzene	ND	ug/m3	75000	32563.2	01/22/10 12:13	AEP	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	180000	32563.2	01/22/10 12:13	AEP	87-68-3	
m&p-Xylene	ND	ug/m3	140000	32563.2	01/22/10 12:13	AEP	1330-20-7	
Methylene Chloride	ND	ug/m3	60000	32563.2	01/22/10 12:13	AEP	75-09-2	
Methyl-tert-butyl ether	ND	ug/m3	120000	32563.2	01/22/10 12:13	AEP	1634-04-4	
n-Heptane	ND	ug/m3	70000	32563.2	01/22/10 12:13	AEP	142-82-5	
n-Hexane	ND	ug/m3	62000	32563.2	01/22/10 12:13	AEP	110-54-3	
o-Xylene	ND	ug/m3	75000	32563.2	01/22/10 12:13	AEP	95-47-6	
Propylene	ND	ug/m3	110000	32563.2	01/22/10 12:13	AEP	115-07-1	
Styrene	ND	ug/m3	78000	32563.2	01/22/10 12:13	AEP	100-42-5	
Tetrachloroethene	8550000	ug/m3	120000	32563.2	01/22/10 12:13	AEP	127-18-4	E
Tetrahydrofuran	56400	ug/m3	51000	32563.2	01/22/10 12:13	AEP	109-99-9	
Toluene	ND	ug/m3	65000	32563.2	01/22/10 12:13	AEP	108-88-3	
trans-1,2-Dichloroethene	ND	ug/m3	130000	32563.2	01/22/10 12:13	AEP	156-60-5	
trans-1,3-Dichloropropene	ND	ug/m3	78000	32563.2	01/22/10 12:13	AEP	10061-02-6	
Trichloroethene	ND	ug/m3	92000	32563.2	01/22/10 12:13	AEP	79-01-6	
Trichlorofluoromethane	ND	ug/m3	93000	32563.2	01/22/10 12:13	AEP	75-69-4	
Vinyl acetate	ND	ug/m3	64000	32563.2	01/22/10 12:13	AEP	108-05-4	
Vinyl chloride	ND	ug/m3	43000	32563.2	01/22/10 12:13	AEP	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Client: Landmark Environmental
Phone: 952-887-9601

Lab Project Number: 10120575
Project Name: CRC City of Rochester

PARAMETER FOOTNOTES

ND Not detected at or above adjusted reporting limit

NC Not Calculable

J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

[E] Analyte concentration exceeded the calibration range. The reported result is estimated.

[D3] Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

January 22, 2010

Mr. Jason Skramstad
Landmark Environmental
2042 W. 98th. St.
Minneapolis, MN 55431

RE: Project: CRC City of Rochester
Pace Project No.: 10120575

Dear Mr. Skramstad:
Enclosed are the analytical results for sample(s) received by the laboratory on January 15, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carol Davy for
Carolynne Trout
carolynne.trout@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: CRC City of Rochester
Pace Project No.: 10120575

Minnesota Certification IDs

Montana Certification #: MT CERT0092
New Jersey Certification #: MN-002
Michigan DEQ Certification #: 9909
Maine Certification #: 2007029
Louisiana Certification #: LA080009
Louisiana Certification #: 03086
Kansas Certification #: E-10167
Iowa Certification #: 368
Illinois Certification #: 200011
Florida/NELAP Certification #: E87605
California Certification #: 01155CA
Arizona Certification #: AZ-0014
Alaska Certification #: UST-078
1700 Elm Street SE, Suite 200 Minneapolis, MN 55414
Wisconsin Certification #: 999407970
Washington Certification #: C754
Tennessee Certification #: 02818
Pennsylvania Certification #: 68-00563
Oregon Certification #: MN200001
North Dakota Certification #: R-036
North Carolina Certification #: 530
New York Certification #: 11647
Minnesota Certification #: 027-053-137

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(612)607-1700

SAMPLE SUMMARY

Project: CRC City of Rochester
Pace Project No.: 10120575

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10120575001	**DPE-OUTLET-1042**	Air	01/14/10 15:23	01/15/10 12:34

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SAMPLE ANALYTE COUNT

Project: CRC City of Rochester
Pace Project No.: 10120575

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10120575001	**DPE-OUTLET-1042**	TO-15	AEP	57

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Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10120575

Sample: DPE-OUTLET-1042 **Lab ID: 10120575001** Collected: 01/14/10 15:23 Received: 01/15/10 12:34 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	**31800**	ppbv	17900	32563.2		01/22/10 12:13	67-64-1	
Benzene	ND	ppbv	16900	32563.2		01/22/10 12:13	71-43-2	
Bromodichloromethane	ND	ppbv	16600	32563.2		01/22/10 12:13	75-27-4	
Bromoform	ND	ppbv	16900	32563.2		01/22/10 12:13	75-25-2	
Bromomethane	ND	ppbv	16600	32563.2		01/22/10 12:13	74-83-9	
1,3-Butadiene	ND	ppbv	16900	32563.2		01/22/10 12:13	106-99-0	
2-Butanone (MEK)	ND	ppbv	17900	32563.2		01/22/10 12:13	78-93-3	
Carbon disulfide	ND	ppbv	16300	32563.2		01/22/10 12:13	75-15-0	
Carbon tetrachloride	ND	ppbv	16600	32563.2		01/22/10 12:13	56-23-5	
Chlorobenzene	ND	ppbv	16900	32563.2		01/22/10 12:13	108-90-7	
Chloroethane	ND	ppbv	16600	32563.2		01/22/10 12:13	75-00-3	
Chloroform	ND	ppbv	16600	32563.2		01/22/10 12:13	67-66-3	
Chloromethane	ND	ppbv	16300	32563.2		01/22/10 12:13	74-87-3	
Cyclohexane	ND	ppbv	16900	32563.2		01/22/10 12:13	110-82-7	
Dibromochloromethane	ND	ppbv	17300	32563.2		01/22/10 12:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ppbv	16900	32563.2		01/22/10 12:13	106-93-4	
1,2-Dichlorobenzene	ND	ppbv	16600	32563.2		01/22/10 12:13	95-50-1	
1,3-Dichlorobenzene	ND	ppbv	16600	32563.2		01/22/10 12:13	541-73-1	
1,4-Dichlorobenzene	ND	ppbv	16600	32563.2		01/22/10 12:13	106-46-7	
Dichlorodifluoromethane	ND	ppbv	16600	32563.2		01/22/10 12:13	75-71-8	D3
1,1-Dichloroethane	ND	ppbv	16900	32563.2		01/22/10 12:13	75-34-3	
1,2-Dichloroethane	ND	ppbv	16900	32563.2		01/22/10 12:13	107-06-2	
1,1-Dichloroethene	ND	ppbv	16900	32563.2		01/22/10 12:13	75-35-4	
cis-1,2-Dichloroethene	ND	ppbv	16900	32563.2		01/22/10 12:13	156-59-2	
trans-1,2-Dichloroethene	ND	ppbv	32600	32563.2		01/22/10 12:13	156-60-5	
1,2-Dichloropropane	ND	ppbv	16900	32563.2		01/22/10 12:13	78-87-5	
cis-1,3-Dichloropropene	ND	ppbv	16600	32563.2		01/22/10 12:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ppbv	16900	32563.2		01/22/10 12:13	10061-02-6	
Dichlorotetrafluoroethane	ND	ppbv	18600	32563.2		01/22/10 12:13	76-14-2	
Ethyl acetate	ND	ppbv	16600	32563.2		01/22/10 12:13	141-78-6	
Ethylbenzene	ND	ppbv	16900	32563.2		01/22/10 12:13	100-41-4	
4-Ethyltoluene	ND	ppbv	17300	32563.2		01/22/10 12:13	622-96-8	
n-Heptane	ND	ppbv	16900	32563.2		01/22/10 12:13	142-82-5	
Hexachloro-1,3-butadiene	ND	ppbv	16300	32563.2		01/22/10 12:13	87-68-3	
n-Hexane	ND	ppbv	17300	32563.2		01/22/10 12:13	110-54-3	
2-Hexanone	ND	ppbv	17900	32563.2		01/22/10 12:13	591-78-6	
Methylene Chloride	ND	ppbv	16900	32563.2		01/22/10 12:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ppbv	17900	32563.2		01/22/10 12:13	108-10-1	
Methyl-tert-butyl ether	ND	ppbv	32600	32563.2		01/22/10 12:13	1634-04-4	
Propylene	ND	ppbv	65100	32563.2		01/22/10 12:13	115-07-1	
Styrene	ND	ppbv	17900	32563.2		01/22/10 12:13	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ppbv	16900	32563.2		01/22/10 12:13	79-34-5	
Tetrachloroethene	**1240000**	ppbv	16900	32563.2		01/22/10 12:13	127-18-4	E
Tetrahydrofuran	**18800**	ppbv	16900	32563.2		01/22/10 12:13	109-99-9	
Toluene	ND	ppbv	16900	32563.2		01/22/10 12:13	108-88-3	
1,2,4-Trichlorobenzene	ND	ppbv	16900	32563.2		01/22/10 12:13	120-82-1	
1,1,1-Trichloroethane	ND	ppbv	16900	32563.2		01/22/10 12:13	71-55-6	

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10120575

Sample: DPE-OUTLET-1042 **Lab ID: 10120575001** Collected: 01/14/10 15:23 Received: 01/15/10 12:34 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,1,2-Trichloroethane	ND	ppbv	16900	32563.2		01/22/10 12:13	79-00-5	
Trichloroethene	ND	ppbv	16900	32563.2		01/22/10 12:13	79-01-6	
Trichlorofluoromethane	ND	ppbv	16300	32563.2		01/22/10 12:13	75-69-4	
1,1,2-Trichlorotrifluoroethane	**349000**	ppbv	16900	32563.2		01/22/10 12:13	76-13-1	
1,2,4-Trimethylbenzene	ND	ppbv	16600	32563.2		01/22/10 12:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ppbv	16900	32563.2		01/22/10 12:13	108-67-8	
Vinyl acetate	ND	ppbv	17900	32563.2		01/22/10 12:13	108-05-4	
Vinyl chloride	ND	ppbv	16600	32563.2		01/22/10 12:13	75-01-4	
m&p-Xylene	ND	ppbv	32600	32563.2		01/22/10 12:13	1330-20-7	
o-Xylene	ND	ppbv	16900	32563.2		01/22/10 12:13	95-47-6	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10120575

QC Batch: AIR/9668
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR
Associated Lab Samples: 10120575001

METHOD BLANK: 740087
Matrix: Air
Associated Lab Samples: 10120575001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ppbv	ND	0.52	01/21/10 14:25	
1,1,2,2-Tetrachloroethane	ppbv	ND	0.52	01/21/10 14:25	
1,1,2-Trichloroethane	ppbv	ND	0.52	01/21/10 14:25	
1,1,2-Trichlorotrifluoroethane	ppbv	ND	0.52	01/21/10 14:25	
1,1-Dichloroethane	ppbv	ND	0.52	01/21/10 14:25	
1,1-Dichloroethene	ppbv	ND	0.52	01/21/10 14:25	
1,2,4-Trichlorobenzene	ppbv	ND	0.52	01/21/10 14:25	
1,2,4-Trimethylbenzene	ppbv	ND	0.51	01/21/10 14:25	
1,2-Dibromoethane (EDB)	ppbv	ND	0.52	01/21/10 14:25	
1,2-Dichlorobenzene	ppbv	ND	0.51	01/21/10 14:25	
1,2-Dichloroethane	ppbv	ND	0.52	01/21/10 14:25	
1,2-Dichloropropane	ppbv	ND	0.52	01/21/10 14:25	
1,3,5-Trimethylbenzene	ppbv	ND	0.52	01/21/10 14:25	
1,3-Butadiene	ppbv	ND	0.52	01/21/10 14:25	
1,3-Dichlorobenzene	ppbv	ND	0.51	01/21/10 14:25	
1,4-Dichlorobenzene	ppbv	ND	0.51	01/21/10 14:25	
2-Butanone (MEK)	ppbv	ND	0.55	01/21/10 14:25	
2-Hexanone	ppbv	ND	0.55	01/21/10 14:25	
4-Ethyltoluene	ppbv	ND	0.53	01/21/10 14:25	
4-Methyl-2-pentanone (MIBK)	ppbv	ND	0.55	01/21/10 14:25	
Acetone	ppbv	ND	0.55	01/21/10 14:25	
Benzene	ppbv	ND	0.52	01/21/10 14:25	
Bromodichloromethane	ppbv	ND	0.51	01/21/10 14:25	
Bromoform	ppbv	ND	0.52	01/21/10 14:25	
Bromomethane	ppbv	ND	0.51	01/21/10 14:25	
Carbon disulfide	ppbv	ND	0.50	01/21/10 14:25	
Carbon tetrachloride	ppbv	ND	0.51	01/21/10 14:25	
Chlorobenzene	ppbv	ND	0.52	01/21/10 14:25	
Chloroethane	ppbv	ND	0.51	01/21/10 14:25	
Chloroform	ppbv	ND	0.51	01/21/10 14:25	
Chloromethane	ppbv	ND	0.50	01/21/10 14:25	
cis-1,2-Dichloroethene	ppbv	ND	0.52	01/21/10 14:25	
cis-1,3-Dichloropropene	ppbv	ND	0.51	01/21/10 14:25	
Cyclohexane	ppbv	ND	0.52	01/21/10 14:25	
Dibromochloromethane	ppbv	ND	0.53	01/21/10 14:25	
Dichlorodifluoromethane	ppbv	ND	0.51	01/21/10 14:25	
Dichlorotetrafluoroethane	ppbv	ND	0.57	01/21/10 14:25	
Ethyl acetate	ppbv	ND	0.51	01/21/10 14:25	
Ethylbenzene	ppbv	ND	0.52	01/21/10 14:25	
Hexachloro-1,3-butadiene	ppbv	ND	0.50	01/21/10 14:25	
m&p-Xylene	ppbv	ND	1.0	01/21/10 14:25	
Methyl-tert-butyl ether	ppbv	ND	1.0	01/21/10 14:25	
Methylene Chloride	ppbv	ND	0.52	01/21/10 14:25	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10120575

METHOD BLANK: 740087 Matrix: Air

Associated Lab Samples: 10120575001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
n-Heptane	ppbv	ND	0.52	01/21/10 14:25	
n-Hexane	ppbv	ND	0.53	01/21/10 14:25	
o-Xylene	ppbv	ND	0.52	01/21/10 14:25	
Propylene	ppbv	ND	2.0	01/21/10 14:25	
Styrene	ppbv	ND	0.55	01/21/10 14:25	
Tetrachloroethene	ppbv	ND	0.52	01/21/10 14:25	
Tetrahydrofuran	ppbv	ND	0.52	01/21/10 14:25	
Toluene	ppbv	ND	0.52	01/21/10 14:25	
trans-1,2-Dichloroethene	ppbv	ND	1.0	01/21/10 14:25	
trans-1,3-Dichloropropene	ppbv	ND	0.52	01/21/10 14:25	
Trichloroethene	ppbv	ND	0.52	01/21/10 14:25	
Trichlorofluoromethane	ppbv	ND	0.50	01/21/10 14:25	
Vinyl acetate	ppbv	ND	0.55	01/21/10 14:25	
Vinyl chloride	ppbv	ND	0.51	01/21/10 14:25	

LABORATORY CONTROL SAMPLE: 740088

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ppbv	10	8.2	82	60-125	
1,1,2,2-Tetrachloroethane	ppbv	10	10.7	107	57-127	
1,1,2-Trichloroethane	ppbv	10	10.4	104	56-125	
1,1,2-Trichlorotrifluoroethane	ppbv	10	8.9	89	52-133	
1,1-Dichloroethane	ppbv	10	9.1	91	54-127	
1,1-Dichloroethene	ppbv	10	8.8	88	52-129	
1,2,4-Trichlorobenzene	ppbv	10	9.0	90	30-150	
1,2,4-Trimethylbenzene	ppbv	10	10.7	107	52-145	
1,2-Dibromoethane (EDB)	ppbv	10	10.8	108	59-133	
1,2-Dichlorobenzene	ppbv	10	11.1	111	67-135	
1,2-Dichloroethane	ppbv	10	8.5	85	54-125	
1,2-Dichloropropane	ppbv	10	10.6	106	64-125	
1,3,5-Trimethylbenzene	ppbv	10	10.2	102	56-135	
1,3-Butadiene	ppbv	10	9.7	97	55-125	
1,3-Dichlorobenzene	ppbv	10	11.1	111	61-142	
1,4-Dichlorobenzene	ppbv	10	11.2	112	55-142	
2-Butanone (MEK)	ppbv	10	9.5	95	47-141	
2-Hexanone	ppbv	10	11.6	116	41-138	
4-Ethyltoluene	ppbv	10	10.8	108	62-130	
4-Methyl-2-pentanone (MIBK)	ppbv	10	10.7	107	53-134	
Acetone	ppbv	10	8.7	87	44-149	
Benzene	ppbv	10	10.3	103	61-126	
Bromodichloromethane	ppbv	10	9.1	91	54-129	
Bromoform	ppbv	10	10.3	103	56-125	
Bromomethane	ppbv	10	9.7	97	56-128	
Carbon disulfide	ppbv	10	9.7	97	58-150	
Carbon tetrachloride	ppbv	10	8.4	84	55-125	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10120575

LABORATORY CONTROL SAMPLE: 740088

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	ppbv	10	11.3	113	48-138	
Chloroethane	ppbv	10	9.7	97	56-128	
Chloroform	ppbv	10	8.8	88	55-125	
Chloromethane	ppbv	10	8.8	88	50-131	
cis-1,2-Dichloroethene	ppbv	10	10.6	106	64-125	
cis-1,3-Dichloropropene	ppbv	10	10.8	108	61-132	
Cyclohexane	ppbv	10	10.1	101	61-130	
Dibromochloromethane	ppbv	10	9.9	99	51-129	
Dichlorodifluoromethane	ppbv	10	8.0	80	56-132	
Dichlorotetrafluoroethane	ppbv	10	8.9	89	48-125	
Ethyl acetate	ppbv	10	9.8	98	66-149	
Ethylbenzene	ppbv	10	10.3	103	56-137	
Hexachloro-1,3-butadiene	ppbv	10	13.2	132	30-150	
m&p-Xylene	ppbv	20	20.0	100	62-135	
Methyl-tert-butyl ether	ppbv	10	8.5	85	59-125	
Methylene Chloride	ppbv	10	8.5	85	46-143	
n-Heptane	ppbv	10	10.3	103	64-130	
n-Hexane	ppbv	10	9.9	99	61-134	
o-Xylene	ppbv	10	10	100	61-134	
Propylene	ppbv	10	10.9	109	62-146	
Styrene	ppbv	10	11.0	110	63-134	
Tetrachloroethene	ppbv	10	10.3	103	61-132	
Tetrahydrofuran	ppbv	10	10.6	106	62-137	
Toluene	ppbv	10	10.2	102	57-132	
trans-1,2-Dichloroethene	ppbv	10	9.5	95	52-130	
trans-1,3-Dichloropropene	ppbv	10	11.0	110	61-129	
Trichloroethene	ppbv	10	10.5	105	72-147	
Trichlorofluoromethane	ppbv	10	7.9	79	58-141	
Vinyl acetate	ppbv	10	10.2	102	56-131	
Vinyl chloride	ppbv	10	9.7	97	56-136	

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QUALIFIERS

Project: CRC City of Rochester
Pace Project No.: 10120575

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC City of Rochester
Pace Project No.: 10120575

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10120575001	**DPE-OUTLET-1042**	TO-15	AIR/9668		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10120575

Page: of

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Landmark Environmental	Report To: Jason Skramstad	Attention: Jason Skramstad
Address: 2042 W. 98th Street	Copy To: Eric Gabrielson	Company Name: Landmark Environmental, LLC
Bloomington, MN 55431		Address: 2042 W. 98th St., Bloomington, MN 55431
Email To: jskramstad@landmarkenv.com	Purchase Order No.:	Pace Quote Reference:
Phone: 952-887-9601, ext 205 / Fax: 952-887-9605	Project Name: City of Rochester	Pace Project Manager: Carolynne Trout
Requested Due Date/TAT: Normal	Project Number: CRC	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER_____

SITE LOCATION ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☐ WI ☐ OTHER____

Section D Required Client Information

SAMPLE ID

One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL WP
WIPE	AR
AIR	OT
OTHER	TS
TISSUE	

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Ana: TO-15	Pace Project Number / Lab I.D.
1	DPE-OUTLET-1042	A	C	1/14/10	9:23	1/14/10	15:23												X	10120575001
2																				
3																				
4																				
5																				
6																				
7																				
8																				
5																				
6																				
7																				
8																				

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
				1/15	1234

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY)

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
AMB	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

Pace Analytical

AIR Sample Condition Upon Receipt

Client Name: LANDMARK Project # 10120575

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ~~☒ Client~~ 1/15/10 ☒ Commercial ☐ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☒ Other_____

Tracking #:_____

Optional
Proj. Due Date:
Proj. Name:

Date and Initials of person examining contents: 1-15-10 JK

		Comments:
Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☐Yes ☒No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Media: AIR (CAN)		11.
Sample Labels match COC:	~~☒Yes~~ ☒No ☐N/A	12. COC READS DPE-OUTLET SAMPLE READS DPF-EFF
Samples Received: 1 CAN, 1 FC		

Canisters		Flow Controllers		Stand Alone G		Tedlar Bags	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
DPE-Outlet	1042		PA127				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted:_____ Date/Time:_____

Comments/ Resolution:_____

Project Manager Review: DMD **Date:** 1-15-10

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

A106 Rev.01 (22May2009)

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(612)607-1700

January 25, 2010

Mr. Jason Skramstad
Landmark Environmental
2042 W. 98th. St.
Minneapolis, MN 55431

RE: Project: City Of Rochester CRC
Pace Project No.: 10120600

Dear Mr. Skramstad:
Enclosed are the analytical results for sample(s) received by the laboratory on January 15, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carolynne Trout

Carolynne Trout

carolynne.trout@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: City Of Rochester CRC
Pace Project No.: 10120600

Minnesota Certification IDs

New Jersey Certification #: MN-002
Montana Certification #: MT CERT0092
North Carolina Certification #: 530
North Dakota Certification #: R-036
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Tennessee Certification #: 02818
Washington Certification #: C754
Wisconsin Certification #: 999407970
1700 Elm Street SE, Suite 200 Minneapolis, MN 55414
Alaska Certification #: UST-078
Arizona Certification #: AZ-0014
California Certification #: 01155CA
Florida/NELAP Certification #: E87605
Illinois Certification #: 200011
Iowa Certification #: 368
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
New York Certification #: 11647

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SAMPLE SUMMARY

Project: City Of Rochester CRC
Pace Project No.: 10120600

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10120600001	**AS-Influent**	Water	01/14/10 09:30	01/15/10 12:34
10120600002	**AS-Effluent**	Water	01/14/10 09:40	01/15/10 12:34

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SAMPLE ANALYTE COUNT

Project: City Of Rochester CRC
Pace Project No.: 10120600

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10120600001	**AS-Influent**	EPA 624	DRE	82
10120600002	**AS-Effluent**	EPA 624	DRE	82

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ANALYTICAL RESULTS

Project: City Of Rochester CRC
Pace Project No.: 10120600

Sample: AS-Influent **Lab ID: 10120600001** Collected: 01/14/10 09:30 Received: 01/15/10 12:34 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV	Analytical Method: EPA 624							
Acetone	**14.6**	ug/L	10.0	1		01/19/10 20:31	67-64-1	
Acrolein	ND	ug/L	40.0	1		01/19/10 20:31	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1		01/19/10 20:31	107-13-1	
Allyl chloride	ND	ug/L	4.0	1		01/19/10 20:31	107-05-1	
Benzene	ND	ug/L	1.0	1		01/19/10 20:31	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		01/19/10 20:31	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/19/10 20:31	74-97-5	
Bromodichloromethane	ND	ug/L	4.0	1		01/19/10 20:31	75-27-4	
Bromoform	ND	ug/L	8.0	1		01/19/10 20:31	75-25-2	
Bromomethane	ND	ug/L	4.0	1		01/19/10 20:31	74-83-9	
2-Butanone (MEK)	**7.0**	ug/L	4.0	1		01/19/10 20:31	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		01/19/10 20:31	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		01/19/10 20:31	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		01/19/10 20:31	98-06-6	
Carbon disulfide	ND	ug/L	1.0	1		01/19/10 20:31	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		01/19/10 20:31	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/19/10 20:31	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/19/10 20:31	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	25.0	1		01/19/10 20:31	110-75-8	
Chloroform	ND	ug/L	1.0	1		01/19/10 20:31	67-66-3	
Chloromethane	**98.5**	ug/L	1.0	1		01/19/10 20:31	74-87-3	
Chloroprene	ND	ug/L	1.0	1		01/19/10 20:31	126-99-8	
2-Chlorotoluene	ND	ug/L	1.0	1		01/19/10 20:31	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		01/19/10 20:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		01/19/10 20:31	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/19/10 20:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/19/10 20:31	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/19/10 20:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/19/10 20:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/19/10 20:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/19/10 20:31	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/19/10 20:31	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/19/10 20:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/19/10 20:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/19/10 20:31	75-35-4	
cis-1,2-Dichloroethene	**1.0**	ug/L	1.0	1		01/19/10 20:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/19/10 20:31	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		01/19/10 20:31	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/19/10 20:31	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		01/19/10 20:31	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		01/19/10 20:31	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/19/10 20:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		01/19/10 20:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		01/19/10 20:31	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		01/19/10 20:31	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		01/19/10 20:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		01/19/10 20:31	87-68-3	

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ANALYTICAL RESULTS

Project: City Of Rochester CRC
Pace Project No.: 10120600

Sample: AS-Influent **Lab ID: 10120600001** Collected: 01/14/10 09:30 Received: 01/15/10 12:34 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV	Analytical Method: EPA 624							
2-Hexanone	ND	ug/L	4.0	1		01/19/10 20:31	591-78-6	
Iodomethane	ND	ug/L	4.0	1		01/19/10 20:31	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		01/19/10 20:31	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/19/10 20:31	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		01/19/10 20:31	75-09-2	
2-Methylnaphthalene	ND	ug/L	5.0	1		01/19/10 20:31	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		01/19/10 20:31	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		01/19/10 20:31	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		01/19/10 20:31	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		01/19/10 20:31	103-65-1	
Styrene	ND	ug/L	1.0	1		01/19/10 20:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/19/10 20:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/19/10 20:31	79-34-5	
Tetrachloroethene	**157**	ug/L	1.0	1		01/19/10 20:31	127-18-4	
Tetrahydrofuran	**29.4**	ug/L	10.0	1		01/19/10 20:31	109-99-9	
Toluene	ND	ug/L	1.0	1		01/19/10 20:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		01/19/10 20:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		01/19/10 20:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/19/10 20:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	4.0	1		01/19/10 20:31	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/19/10 20:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	4.0	1		01/19/10 20:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/19/10 20:31	96-18-4	
1,1,2-Trichlorotrifluoroethane	**1.3**	ug/L	1.0	1		01/19/10 20:31	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		01/19/10 20:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		01/19/10 20:31	108-67-8	
Vinyl acetate	ND	ug/L	20.0	1		01/19/10 20:31	108-05-4	
Vinyl chloride	ND	ug/L	0.40	1		01/19/10 20:31	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/19/10 20:31	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		01/19/10 20:31	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		01/19/10 20:31	95-47-6	
Dibromofluoromethane (S)	108	%	75-125	1		01/19/10 20:31	1868-53-7	
4-Bromofluorobenzene (S)	101	%	75-125	1		01/19/10 20:31	460-00-4	
Toluene-d8 (S)	96	%	75-125	1		01/19/10 20:31	2037-26-5	
1,2-Dichloroethane-d4 (S)	112	%	75-125	1		01/19/10 20:31	17060-07-0	

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ANALYTICAL RESULTS

Project: City Of Rochester CRC
Pace Project No.: 10120600

Sample: AS-Effluent **Lab ID: 10120600002** Collected: 01/14/10 09:40 Received: 01/15/10 12:34 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV	Analytical Method: EPA 624							
Acetone	ND	ug/L	10.0	1		01/19/10 20:52	67-64-1	
Acrolein	ND	ug/L	40.0	1		01/19/10 20:52	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1		01/19/10 20:52	107-13-1	
Allyl chloride	ND	ug/L	4.0	1		01/19/10 20:52	107-05-1	
Benzene	ND	ug/L	1.0	1		01/19/10 20:52	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		01/19/10 20:52	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/19/10 20:52	74-97-5	
Bromodichloromethane	ND	ug/L	4.0	1		01/19/10 20:52	75-27-4	
Bromoform	ND	ug/L	8.0	1		01/19/10 20:52	75-25-2	
Bromomethane	ND	ug/L	4.0	1		01/19/10 20:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		01/19/10 20:52	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		01/19/10 20:52	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		01/19/10 20:52	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		01/19/10 20:52	98-06-6	
Carbon disulfide	ND	ug/L	1.0	1		01/19/10 20:52	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		01/19/10 20:52	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/19/10 20:52	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/19/10 20:52	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	25.0	1		01/19/10 20:52	110-75-8	
Chloroform	ND	ug/L	1.0	1		01/19/10 20:52	67-66-3	
Chloromethane	**31.9**	ug/L	1.0	1		01/19/10 20:52	74-87-3	
Chloroprene	ND	ug/L	1.0	1		01/19/10 20:52	126-99-8	
2-Chlorotoluene	ND	ug/L	1.0	1		01/19/10 20:52	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		01/19/10 20:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		01/19/10 20:52	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/19/10 20:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/19/10 20:52	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/19/10 20:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/19/10 20:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/19/10 20:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/19/10 20:52	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/19/10 20:52	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/19/10 20:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/19/10 20:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/19/10 20:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/19/10 20:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/19/10 20:52	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		01/19/10 20:52	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/19/10 20:52	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		01/19/10 20:52	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		01/19/10 20:52	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/19/10 20:52	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		01/19/10 20:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		01/19/10 20:52	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		01/19/10 20:52	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		01/19/10 20:52	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		01/19/10 20:52	87-68-3	

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ANALYTICAL RESULTS

Project: City Of Rochester CRC
Pace Project No.: 10120600

Sample: AS-Effluent **Lab ID: 10120600002** Collected: 01/14/10 09:40 Received: 01/15/10 12:34 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV	Analytical Method: EPA 624							
2-Hexanone	ND	ug/L	4.0	1		01/19/10 20:52	591-78-6	
Iodomethane	ND	ug/L	4.0	1		01/19/10 20:52	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		01/19/10 20:52	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/19/10 20:52	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		01/19/10 20:52	75-09-2	
2-Methylnaphthalene	ND	ug/L	5.0	1		01/19/10 20:52	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		01/19/10 20:52	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		01/19/10 20:52	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		01/19/10 20:52	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		01/19/10 20:52	103-65-1	
Styrene	ND	ug/L	1.0	1		01/19/10 20:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/19/10 20:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/19/10 20:52	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		01/19/10 20:52	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		01/19/10 20:52	109-99-9	
Toluene	ND	ug/L	1.0	1		01/19/10 20:52	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		01/19/10 20:52	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		01/19/10 20:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/19/10 20:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	4.0	1		01/19/10 20:52	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/19/10 20:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	4.0	1		01/19/10 20:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/19/10 20:52	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		01/19/10 20:52	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		01/19/10 20:52	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		01/19/10 20:52	108-67-8	
Vinyl acetate	ND	ug/L	20.0	1		01/19/10 20:52	108-05-4	
Vinyl chloride	ND	ug/L	0.40	1		01/19/10 20:52	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/19/10 20:52	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		01/19/10 20:52	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		01/19/10 20:52	95-47-6	
Dibromofluoromethane (S)	110	%	75-125	1		01/19/10 20:52	1868-53-7	
4-Bromofluorobenzene (S)	102	%	75-125	1		01/19/10 20:52	460-00-4	
Toluene-d8 (S)	95	%	75-125	1		01/19/10 20:52	2037-26-5	
1,2-Dichloroethane-d4 (S)	117	%	75-125	1		01/19/10 20:52	17060-07-0	

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QUALITY CONTROL DATA

Project: City Of Rochester CRC
Pace Project No.: 10120600

QC Batch: MSV/13764 Analysis Method: EPA 624
QC Batch Method: EPA 624 Analysis Description: 624 MSV
Associated Lab Samples: 10120600001, 10120600002

METHOD BLANK: 738089 Matrix: Water
Associated Lab Samples: 10120600001, 10120600002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	01/19/10 16:14	
1,1,1-Trichloroethane	ug/L	ND	1.0	01/19/10 16:14	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/19/10 16:14	
1,1,2-Trichloroethane	ug/L	ND	4.0	01/19/10 16:14	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	01/19/10 16:14	
1,1-Dichloroethane	ug/L	ND	1.0	01/19/10 16:14	
1,1-Dichloroethene	ug/L	ND	1.0	01/19/10 16:14	
1,1-Dichloropropene	ug/L	ND	1.0	01/19/10 16:14	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	01/19/10 16:14	
1,2,3-Trichloropropane	ug/L	ND	1.0	01/19/10 16:14	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	01/19/10 16:14	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	01/19/10 16:14	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	01/19/10 16:14	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	01/19/10 16:14	
1,2-Dichlorobenzene	ug/L	ND	1.0	01/19/10 16:14	
1,2-Dichloroethane	ug/L	ND	1.0	01/19/10 16:14	
1,2-Dichloropropane	ug/L	ND	1.0	01/19/10 16:14	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	01/19/10 16:14	
1,3-Dichlorobenzene	ug/L	ND	1.0	01/19/10 16:14	
1,3-Dichloropropane	ug/L	ND	1.0	01/19/10 16:14	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/19/10 16:14	
2,2-Dichloropropane	ug/L	ND	1.0	01/19/10 16:14	
2-Butanone (MEK)	ug/L	ND	4.0	01/19/10 16:14	
2-Chloroethylvinyl ether	ug/L	ND	25.0	01/19/10 16:14	
2-Chlorotoluene	ug/L	ND	1.0	01/19/10 16:14	
2-Hexanone	ug/L	ND	4.0	01/19/10 16:14	
2-Methylnaphthalene	ug/L	ND	5.0	01/19/10 16:14	
4-Chlorotoluene	ug/L	ND	1.0	01/19/10 16:14	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	01/19/10 16:14	
Acetone	ug/L	ND	10.0	01/19/10 16:14	
Acrolein	ug/L	ND	40.0	01/19/10 16:14	
Acrylonitrile	ug/L	ND	10.0	01/19/10 16:14	
Allyl chloride	ug/L	ND	4.0	01/19/10 16:14	
Benzene	ug/L	ND	1.0	01/19/10 16:14	
Bromobenzene	ug/L	ND	1.0	01/19/10 16:14	
Bromochloromethane	ug/L	ND	1.0	01/19/10 16:14	
Bromodichloromethane	ug/L	ND	4.0	01/19/10 16:14	
Bromoform	ug/L	ND	8.0	01/19/10 16:14	
Bromomethane	ug/L	ND	4.0	01/19/10 16:14	
Carbon disulfide	ug/L	ND	1.0	01/19/10 16:14	
Carbon tetrachloride	ug/L	ND	1.0	01/19/10 16:14	
Chlorobenzene	ug/L	ND	1.0	01/19/10 16:14	
Chloroethane	ug/L	ND	1.0	01/19/10 16:14	

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QUALITY CONTROL DATA

Project: City Of Rochester CRC
Pace Project No.: 10120600

METHOD BLANK: 738089 Matrix: Water

Associated Lab Samples: 10120600001, 10120600002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroform	ug/L	ND	1.0	01/19/10 16:14	
Chloromethane	ug/L	ND	1.0	01/19/10 16:14	
Chloroprene	ug/L	ND	1.0	01/19/10 16:14	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/19/10 16:14	
cis-1,3-Dichloropropene	ug/L	ND	4.0	01/19/10 16:14	
Dibromochloromethane	ug/L	ND	1.0	01/19/10 16:14	
Dibromomethane	ug/L	ND	1.0	01/19/10 16:14	
Dichlorodifluoromethane	ug/L	ND	1.0	01/19/10 16:14	
Dichlorofluoromethane	ug/L	ND	1.0	01/19/10 16:14	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	01/19/10 16:14	
Ethylbenzene	ug/L	ND	1.0	01/19/10 16:14	
Hexachloro-1,3-butadiene	ug/L	ND	4.0	01/19/10 16:14	
Iodomethane	ug/L	ND	4.0	01/19/10 16:14	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	01/19/10 16:14	
m&p-Xylene	ug/L	ND	2.0	01/19/10 16:14	
Methyl-tert-butyl ether	ug/L	ND	1.0	01/19/10 16:14	
Methylene Chloride	ug/L	ND	4.0	01/19/10 16:14	
n-Butylbenzene	ug/L	ND	1.0	01/19/10 16:14	
n-Propylbenzene	ug/L	ND	1.0	01/19/10 16:14	
Naphthalene	ug/L	ND	4.0	01/19/10 16:14	
o-Xylene	ug/L	ND	1.0	01/19/10 16:14	
p-Isopropyltoluene	ug/L	ND	1.0	01/19/10 16:14	
sec-Butylbenzene	ug/L	ND	1.0	01/19/10 16:14	
Styrene	ug/L	ND	1.0	01/19/10 16:14	
tert-Butylbenzene	ug/L	ND	1.0	01/19/10 16:14	
Tetrachloroethene	ug/L	ND	1.0	01/19/10 16:14	
Tetrahydrofuran	ug/L	ND	10.0	01/19/10 16:14	
Toluene	ug/L	ND	1.0	01/19/10 16:14	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/19/10 16:14	
trans-1,3-Dichloropropene	ug/L	ND	4.0	01/19/10 16:14	
Trichloroethene	ug/L	ND	1.0	01/19/10 16:14	
Trichlorofluoromethane	ug/L	ND	4.0	01/19/10 16:14	
Vinyl acetate	ug/L	ND	20.0	01/19/10 16:14	
Vinyl chloride	ug/L	ND	0.40	01/19/10 16:14	
Xylene (Total)	ug/L	ND	3.0	01/19/10 16:14	
1,2-Dichloroethane-d4 (S)	%	106	75-125	01/19/10 16:14	
4-Bromofluorobenzene (S)	%	99	75-125	01/19/10 16:14	
Dibromofluoromethane (S)	%	103	75-125	01/19/10 16:14	
Toluene-d8 (S)	%	97	75-125	01/19/10 16:14	

LABORATORY CONTROL SAMPLE: 738090

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.8	102	75-129	
1,1,1-Trichloroethane	ug/L	50	53.0	106	73-144	

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1700 Elm Street - Suite 200
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(612)607-1700

QUALITY CONTROL DATA

Project: City Of Rochester CRC
Pace Project No.: 10120600

LABORATORY CONTROL SAMPLE: 738090

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	50	49.1	98	75-125	
1,1,2-Trichloroethane	ug/L	50	50.3	101	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	51.6	103	75-143	
1,1-Dichloroethane	ug/L	50	54.1	108	75-135	
1,1-Dichloroethene	ug/L	50	51.0	102	75-133	
1,1-Dichloropropene	ug/L	50	53.7	107	75-131	
1,2,3-Trichlorobenzene	ug/L	50	52.2	104	73-141	
1,2,3-Trichloropropane	ug/L	50	49.8	100	75-126	
1,2,4-Trichlorobenzene	ug/L	50	53.1	106	70-148	
1,2,4-Trimethylbenzene	ug/L	50	54.9	110	75-141	
1,2-Dibromo-3-chloropropane	ug/L	50	48.7	97	64-135	
1,2-Dibromoethane (EDB)	ug/L	50	49.2	98	75-125	
1,2-Dichlorobenzene	ug/L	50	51.1	102	75-125	
1,2-Dichloroethane	ug/L	50	51.7	103	75-136	
1,2-Dichloropropane	ug/L	50	52.4	105	75-130	
1,3,5-Trimethylbenzene	ug/L	50	53.9	108	75-141	
1,3-Dichlorobenzene	ug/L	50	51.5	103	75-125	
1,3-Dichloropropane	ug/L	50	50.9	102	75-125	
1,4-Dichlorobenzene	ug/L	50	50.9	102	75-125	
2,2-Dichloropropane	ug/L	50	51.3	103	50-150	
2-Butanone (MEK)	ug/L	50	48.1	96	58-138	
2-Chloroethylvinyl ether	ug/L	125	77.1	62	50-150	
2-Chlorotoluene	ug/L	50	52.0	104	75-132	
2-Hexanone	ug/L	50	51.7	103	65-135	
2-Methylnaphthalene	ug/L	50	49.2	98	62-150	
4-Chlorotoluene	ug/L	50	53.7	107	75-135	
4-Methyl-2-pentanone (MIBK)	ug/L	50	50.7	101	69-137	
Acetone	ug/L	125	134	107	52-141	
Acrolein	ug/L	500	496	99	50-150	
Acrylonitrile	ug/L	500	484	97	75-130	
Allyl chloride	ug/L	50	55.0	110	68-150	
Benzene	ug/L	50	51.9	104	75-125	
Bromobenzene	ug/L	50	50.5	101	75-125	
Bromochloromethane	ug/L	50	51.5	103	75-129	
Bromodichloromethane	ug/L	50	51.7	103	75-142	
Bromoform	ug/L	100	98.5	98	66-135	
Bromomethane	ug/L	50	43.8	88	57-150	
Carbon disulfide	ug/L	50	47.5	95	65-132	
Carbon tetrachloride	ug/L	50	52.8	106	75-148	
Chlorobenzene	ug/L	50	50.6	101	75-125	
Chloroethane	ug/L	50	52.3	105	66-142	
Chloroform	ug/L	50	52.1	104	75-131	
Chloromethane	ug/L	50	51.5	103	52-147	
Chloroprene	ug/L	50	55.4	111	71-147	
cis-1,2-Dichloroethene	ug/L	50	51.6	103	75-126	
cis-1,3-Dichloropropene	ug/L	50	54.1	108	69-150	
Dibromochloromethane	ug/L	50	49.8	100	73-138	
Dibromomethane	ug/L	50	49.9	100	75-127	

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QUALITY CONTROL DATA

Project: City Of Rochester CRC
Pace Project No.: 10120600

LABORATORY CONTROL SAMPLE: 738090

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dichlorodifluoromethane	ug/L	50	51.4	103	50-150	
Dichlorofluoromethane	ug/L	50	52.2	104	75-129	
Diethyl ether (Ethyl ether)	ug/L	50	50.6	101	75-126	
Ethylbenzene	ug/L	50	52.9	106	75-132	
Hexachloro-1,3-butadiene	ug/L	50	52.9	106	75-129	
Iodomethane	ug/L	50	54.1	108	73-150	
Isopropylbenzene (Cumene)	ug/L	50	54.2	108	75-142	
m&p-Xylene	ug/L	100	106	106	75-131	
Methyl-tert-butyl ether	ug/L	50	42.2	84	75-130	
Methylene Chloride	ug/L	50	49.2	98	71-125	
n-Butylbenzene	ug/L	50	56.9	114	70-148	
n-Propylbenzene	ug/L	50	54.3	109	75-136	
Naphthalene	ug/L	50	54.1	108	69-145	
o-Xylene	ug/L	50	53.5	107	75-129	
p-Isopropyltoluene	ug/L	50	55.4	111	75-132	
sec-Butylbenzene	ug/L	50	56.0	112	75-136	
Styrene	ug/L	50	53.9	108	75-125	
tert-Butylbenzene	ug/L	50	54.8	110	75-135	
Tetrachloroethene	ug/L	50	49.7	99	75-125	
Tetrahydrofuran	ug/L	500	500	100	63-144	
Toluene	ug/L	50	51.2	102	75-125	
trans-1,2-Dichloroethene	ug/L	50	51.1	102	72-135	
trans-1,3-Dichloropropene	ug/L	50	52.8	106	62-150	
Trichloroethene	ug/L	50	51.4	103	75-125	
Trichlorofluoromethane	ug/L	50	52.8	106	67-150	
Vinyl acetate	ug/L	50	52.6	105	55-150	
Vinyl chloride	ug/L	50	50.8	102	63-147	
Xylene (Total)	ug/L	150	159	106	75-130	
1,2-Dichloroethane-d4 (S)	%			102	75-125	
4-Bromofluorobenzene (S)	%			103	75-125	
Dibromofluoromethane (S)	%			101	75-125	
Toluene-d8 (S)	%			100	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 738680 738681

Parameter	Units	10120293002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	200	200	203	197	101	99	70-136	3	30	
1,1,1-Trichloroethane	ug/L	ND	200	200	225	216	113	108	68-150	4	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	200	200	241	224	120	112	75-125	7	30	
1,1,2-Trichloroethane	ug/L	ND	200	200	207	198	103	99	75-125	4	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	200	200	229	222	115	111	75-150	3	30	
1,1-Dichloroethane	ug/L	ND	200	200	220	215	110	107	67-143	2	30	
1,1-Dichloroethene	ug/L	ND	200	200	222	218	111	109	75-147	2	30	
1,1-Dichloropropene	ug/L	ND	200	200	228	223	114	112	75-141	2	30	
1,2,3-Trichlorobenzene	ug/L	ND	200	200	214	201	107	101	71-141	6	30	
1,2,3-Trichloropropane	ug/L	ND	200	200	227	210	114	105	75-128	8	30	

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QUALITY CONTROL DATA

Project: City Of Rochester CRC
Pace Project No.: 10120600

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 738680 738681

Parameter	Units	10120293002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trichlorobenzene	ug/L	ND	200	200	228	213	114	107	61-148	7	30	
1,2,4-Trimethylbenzene	ug/L	828	200	200	1040	913	107	43	65-145	13	30	M0
1,2-Dibromo-3-chloropropane	ug/L	ND	200	200	228	214	114	107	64-135	7	30	
1,2-Dibromoethane (EDB)	ug/L	ND	200	200	201	193	101	96	75-126	4	30	
1,2-Dichlorobenzene	ug/L	ND	200	200	218	209	109	104	75-127	4	30	
1,2-Dichloroethane	ug/L	ND	200	200	210	199	105	99	70-138	5	30	
1,2-Dichloropropane	ug/L	ND	200	200	214	206	107	103	75-130	4	30	
1,3,5-Trimethylbenzene	ug/L	226	200	200	474	425	124	99	61-150	11	30	
1,3-Dichlorobenzene	ug/L	ND	200	200	228	218	114	109	75-126	4	30	
1,3-Dichloropropane	ug/L	ND	200	200	208	197	104	99	75-125	5	30	
1,4-Dichlorobenzene	ug/L	ND	200	200	225	211	113	105	75-125	7	30	
2,2-Dichloropropane	ug/L	ND	200	200	226	215	113	107	50-150	5	30	
2-Butanone (MEK)	ug/L	ND	200	200	210	214	90	93	50-141	2	30	
2-Chloroethylvinyl ether	ug/L	ND	500	500	105J	ND	21	10	50-150		30	P5
2-Chlorotoluene	ug/L	ND	200	200	317	301	158	150	75-137	5	30	M0
2-Hexanone	ug/L	ND	200	200	198	192	99	96	66-135	3	30	
2-Methylnaphthalene	ug/L	ND	200	200	217	211	96	93	62-150	3	30	
4-Chlorotoluene	ug/L	ND	200	200	263	246	132	123	70-144	7	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	200	200	211	214	105	107	62-142	2	30	
Acetone	ug/L	494	500	500	920	819	85	65	50-150	12	30	
Acrolein	ug/L	ND	2000	2000	2090	2020	104	101	50-150	3	30	
Acrylonitrile	ug/L	ND	2000	2000	2060	1990	103	100	70-135	3	30	
Allyl chloride	ug/L	ND	200	200	184	203	92	101	50-150	10	30	
Benzene	ug/L	ND	200	200	219	210	109	105	75-125	4	30	
Bromobenzene	ug/L	ND	200	200	220	210	110	105	75-125	5	30	
Bromochloromethane	ug/L	ND	200	200	211	205	106	102	73-137	3	30	
Bromodichloromethane	ug/L	ND	200	200	199	193	99	97	70-142	3	30	
Bromoform	ug/L	ND	400	400	356	354	89	88	55-135	1	30	
Bromomethane	ug/L	ND	200	200	201	206	101	103	50-150	2	30	
Carbon disulfide	ug/L	ND	200	200	153	149	76	74	50-150	2	30	
Carbon tetrachloride	ug/L	ND	200	200	220	212	110	106	64-150	3	30	
Chlorobenzene	ug/L	ND	200	200	210	204	105	102	75-125	3	30	
Chloroethane	ug/L	ND	200	200	239	215	120	107	59-150	11	30	
Chloroform	ug/L	ND	200	200	220	211	110	105	75-132	4	30	
Chloromethane	ug/L	ND	200	200	236	215	118	108	52-150	9	30	
Chloroprene	ug/L	ND	200	200	241	230	120	115	54-150	4	30	
cis-1,2-Dichloroethene	ug/L	ND	200	200	217	209	108	104	64-144	4	30	
cis-1,3-Dichloropropene	ug/L	ND	200	200	199	201	100	101	56-150	1	30	
Dibromochloromethane	ug/L	ND	200	200	187	181	94	91	60-138	3	30	
Dibromomethane	ug/L	ND	200	200	197	195	98	97	75-127	1	30	
Dichlorodifluoromethane	ug/L	ND	200	200	224	214	112	107	50-150	4	30	
Dichlorofluoromethane	ug/L	ND	200	200	222	214	111	107	74-142	4	30	
Diethyl ether (Ethyl ether)	ug/L	ND	200	200	202	197	101	99	75-127	2	30	
Ethylbenzene	ug/L	17.9	200	200	241	230	112	106	75-134	5	30	
Hexachloro-1,3-butadiene	ug/L	ND	200	200	291	268	146	134	63-150	8	30	
Iodomethane	ug/L	ND	200	200	214	230	107	115	50-150	7	30	
Isopropylbenzene (Cumene)	ug/L	11.4	200	200	249	237	119	113	69-147	5	30	

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QUALITY CONTROL DATA

Project: City Of Rochester CRC
Pace Project No.: 10120600

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 738680 738681

Parameter	Units	10120293002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
m&p-Xylene	ug/L	73.7	400	400	523	496	112	106	75-133	5	30	
Methyl-tert-butyl ether	ug/L	ND	200	200	190	186	95	93	73-131	2	30	
Methylene Chloride	ug/L	ND	200	200	201	193	101	97	68-126	4	30	
n-Butylbenzene	ug/L	27.5	200	200	339	310	156	141	59-150	9	30	M0
n-Propylbenzene	ug/L	95.0	200	200	340	325	122	115	72-143	4	30	
Naphthalene	ug/L	46.2	200	200	280	264	117	109	57-148	6	30	
o-Xylene	ug/L	36.8	200	200	265	249	114	106	75-131	6	30	
p-Isopropyltoluene	ug/L	ND	200	200	288	267	141	130	75-137	8	30	M0
sec-Butylbenzene	ug/L	12.8	200	200	302	280	145	133	75-144	8	30	M0
Styrene	ug/L	ND	200	200	216	208	108	104	75-134	3	30	
tert-Butylbenzene	ug/L	ND	200	200	273	253	136	127	68-150	7	30	
Tetrachloroethene	ug/L	25.8	200	200	243	228	108	101	75-130	6	30	
Tetrahydrofuran	ug/L	ND	2000	2000	2030	2060	102	103	60-148	1	30	
Toluene	ug/L	132	200	200	351	334	109	101	75-125	5	30	
trans-1,2-Dichloroethene	ug/L	ND	200	200	219	212	109	106	75-145	3	30	
trans-1,3-Dichloropropene	ug/L	ND	200	200	195	196	98	98	50-150	0	30	
Trichloroethene	ug/L	ND	200	200	218	211	109	105	73-132	4	30	
Trichlorofluoromethane	ug/L	ND	200	200	235	224	117	112	67-150	5	30	
Vinyl acetate	ug/L	ND	200	200	222	218	111	109	50-150	2	30	
Vinyl chloride	ug/L	ND	200	200	223	213	111	107	63-150	4	30	
Xylene (Total)	ug/L	110	600	600	788	745	113	106	72-138	6	30	
1,2-Dichloroethane-d4 (S)	%						99	98	75-125			
4-Bromofluorobenzene (S)	%						111	107	75-125			
Dibromofluoromethane (S)	%						102	100	75-125			
Toluene-d8 (S)	%						101	101	75-125			

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QUALIFIERS

Project: City Of Rochester CRC
Pace Project No.: 10120600

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

ANALYTE QUALIFIERS

M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
P5	The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: City Of Rochester CRC
Pace Project No.: 10120600

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10120600001	**AS-Influent**	EPA 624	MSV/13764		
10120600002	**AS-Effluent**	EPA 624	MSV/13764		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10120600

Page: of

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Landmark Environmental	Report To: Jason Skramstad	Attention: Jason Skramstad
Address: 2042 W. 98th Street	Copy To: Eric Gabrielson	Company Name: Landmark Environmental, LLC
Bloomington, MN 55431		Address: 2042 W. 98th St., Bloomington, MN 55431
Email To: jskramstad@landmarkenv.com	Purchase Order No.:	Pace Quote Reference:
Phone: 952-887-9601, ext 205 Fax: 952-887-9605	Project Name: City of Rochester	Pace Project Manager: Carolynne Trout
Requested Due Date/TAT: Normal	Project Number: CRC	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER_____

SITE LOCATION ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☐ WI ☐ OTHER____

Section D Required Client Information

SAMPLE ID

One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL WP
WIPE	AR
AIR	OT
OTHER	TS
TISSUE	

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis: EPA 624	Pace Project Number Lab I.D.
1	AS-Influent	W	G	1/14/10	9:30				3									X	001
2	AS-Effluent	W	G	1/14/10	9:40				3									X	002
3																			
4																			
5																			
6																			
7																			
8																			
5																			
6																			
7																			
8																			

Filtered (Y/N)

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
			Shannon Davis/Pace	1-15-10	1234	0.9°C	(N)	Y/N	Y/N
							Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:	DATE Signed (MM / DD / YY)				

F:\PROJECTS\Crc-City of Rochester\Analytical Reports\coc 1-14-10.XLS

Sample Condition Upon Receipt

Pace Analytical

Client Name: Landmark **Project #** 10120600

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☒ Commercial ☐ Pace Other _____

Tracking #: _____

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ no

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____ Temp Blank: Yes ☒ No _____

Thermometer Used 80344042 or (179425) **Type of Ice:** (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 0.9°c **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Date and initials of person examining contents: BD 1-15-10

Comments:

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☐Yes ☒No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4. (not Printed)
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☐Yes ☒No ☐N/A	12. AS-influent on COC, AS-IN on Containers AS-Effluent on COC, AS-OUT on Containers
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing acid/base preservation have been checked. Noncompliance are noted in 13.	☐Yes ☐No ☒N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ HCl
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☒N/A	Samp #
Exceptions: (VOA), Coliform, TOC, Oil and Grease, WI-DRO (water)	☒Yes ☐No	Initial when completed SD / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☒No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☒No ☐N/A	15.
Trip Blank Present:	☐Yes ☒No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☒N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: CMD **Date:** 1-15-10

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR.

Pace Analytical Services, Inc.
1700 Elm Street SE, Suite 200, Minneapolis, MN 55414

Attachment C

Site Data Entry Worksheet for Soil Vapor Extraction Systems
Enter site data for up to 5 SVE stacks in yellow cells.

Project Name:		Enter Height of Stack#1 (meters):	Enter Distance from Stack#1 to Nearest Receptor or Property Boundary (in meters, minimum 10):	Enter Measured Gas Flow Rate through Vent Stack#1 (m3/sec):				
MN Bio Business Center		**8**	**10**	**0.01**				
Date of Emission Test:		**STACK 1**						
11/17/09		**ENTER EMISSION CONCENTRATIONS FOR STACK#1 in Column C**						
Chemical Name	**CAS or MPCA#**	Emission concentration stack#1 ug/m3	Gas flow rate through vent stack#1 m3/sec	Emission rate stack#1 ug/sec	Emission rate stack#1 lb/hr	Emission rate stack#1 tons/year	Total Annual Emissions (tons/year)	Cumulative Emission Rate (ug/sec)
Acetone	67-64-1	116	1.3000E-02	1.5080E+00	1.1968E-05	5.2422E-05	5.2422E-05	1.5080E+00
Tetrachloroethylene (Perchloroethylene)	127-18-4	381000	1.3000E-02	4.9530E+03	3.9310E-02	1.7218E-01	1.7218E-01	4.9530E+03
Trichloro-1,2,2-trifluoroethane, 1,1,2- (Freon 113)	76-13-1	72100	1.3000E-02	9.3730E+02	7.4390E-03	3.2583E-02	3.2583E-02	9.3730E+02
							2.0481E-01	

Site Data Entry Worksheet for Air Stripper Systems

Enter Site Data for up to 5 air strippers in yellow cells.

Site/Project Name:	**MN Bio Business Center**
Emission Test Date:	**11/16/2009**

Enter Height of Stack: (meters)	Enter Distance from Stack to Nearest Receptor or Property Boundary: (in meters, minimum 10)	Air Stripper#1 influent flow rate [IFR] (liter/sec)
8	**10**	**0.02**

		Air Stripper #1								
Chemical Name	**CAS or MPCA#**	Influent Groundwater Concentration [IGC] (ug/L)	Effluent Groundwater Concentration [EGC] (ug/L)	Removal Factor [RF] (dimension less)	Emission Rate [ER = IGC*IFR*RF] (ug/sec)	Emission Rate (lbs/hr)	Emissions Rate (tons/yr)	Cumulative Emission Rate (ug/sec)	Total Annual Emissions (lbs/hr)	Total Annual Emissions (tons/year)
Tetrachloroethylene (Perchloroethylene)	127-18-4	3.07E+01	0.00E+00	1.00	4.61E-01	3.65E-06	1.60E-05	4.61E-01	3.65E-06	1.60E-05

Screening Emission Rates (SERs) and Chronic Risk Summary
Based on site inputs provided on Soil Venting Worksheet and Air Stripper Worksheet

Site/Project Name:
MN Bio Business Center
Emission Test Date:
11/17/2009

Chemical Name	CAS # or MPCA #	Chronic Noncancer tox value (ug/m3)	Chronic Cancer tox value (ug/m3)	Annual Disp. Factor ((ug/m3)/g/s)	SER for Chronic Risk (ug/s)	Site Specific Emission Rate (ug/s)	Calculated Conc at Receptor for Chronic Risk (ug/m3)	Site HQ (Noncancer)	ELCR (Cancer)
Acetone	67-64-1	3.00E+04		1230	2.44E+07	1.51E+00	1.85E-03	0.0	
Tetrachloroethylene (Perchloroethylene)	127-18-4	1.00E+02	2.00E+01	1230	1.63E+04	4.95E+03	6.09E+00	0.1	3.0E-06
Trichloro-1,2,2-trifluoroethane, 1,1,2- (Freon 113)	76-13-1			1230		9.37E+02	1.15E+00		
						Additive Risk:		**0.1**	**3.0E-06**

Screening Emission Rates (SERs) and Acute Risk Summary

Based on site inputs provided on Soil Venting Worksheet and Air Stripper Worksheet

Site/Project Name:
MN Bio Business Center
Emission Test Date:
11/17/2009

***Bolded chemicals are developmental toxicants. The acute toxic values are ceiling values that should not be exceeded.**

Chemical Name	**CAS # or MPCA #**	Acute toxcity value (ug/m3)	1-hr Disp. Factor ((ug/m3)/g/s)	SER [acute risk] (ug/s)	Site Emission Rate (ug/s)	Calculated Conc at Receptor for Acute Risk (ug/m3)	**Site HQ (Noncancer) for acute risk**
Acetone	67-64-1		3343		1.51E+00	2.21E-02	
Tetrachloroethylene (Perchloroethylene)	127-18-4	20000	3343	5.98E+06	4.95E+03	7.25E+01	0.0
Trichloro-1,2,2-trifluoroethane, 1,1,2- (Freon 113)	76-13-1		3343		9.37E+02	1.37E+01	
					Additive Risk:		**0.0**

Risk Evaluation Summary - 11/17/09

RASS Version Used: RASS version number = 20060829 - RASS

This worksheet provides a summary of the results of the chronic and acute risk calculations based on site inputs from the Soil Venting and the Air Stripper worksheets. For both chronic and acute risk, an unacceptable risk is indicated in red if the Hazard Index exceeds 1. For chronic risk, an unacceptable risk is also indicated in red if the additive ELCR exceeds 10-5. This worksheet also indicates if levels of any acute developmental toxicants (which are considered ceiling values and should never be exceeded) pose an unacceptable risk.

CHRONIC RISK SUMMARY	
Number of Compounds with Hazard Quotient >1:	**0**
Number of Compounds with Cancer Risk > 10^{-5}	**0**
Noncancer Hazard Index:	**0.1**
Excess Lifetime Cancer Risk (ELCR):	**3.0E-06**

ACUTE RISK SUMMARY	
Number of Compounds with Hazard Quotient >1:	**0**
Hazard Index:	**0.0**

Ceiling Values Exceeded?	
Arsenic	**NO**
Benzene	**NO**
Carbon disulfide	**NO**
Carbon tetrachloride	**NO**
Cellosolve Acetate	**NO**
Chloroform	**NO**
Ethoxyethanol, 2-	**NO**
Ethylbenzene	**NO**
Ethyl chloride	**NO**
Mercury	**NO**
Methoxyethanol, 2-	**NO**
Propylene oxide	**NO**
Trichloroethylene	**NO**

Site Data Entry Worksheet for Soil Vapor Extraction Systems

Enter site data for up to 5 SVE stacks in yellow cells.

Project Name:		Enter Height of Stack#1 (meters):	Enter Distance from Stack#1 to Nearest Receptor or Property Boundary (in meters, minimum 10):	Enter Measured Gas Flow Rate through Vent Stack#1 (m3/sec):				
MN Bio Business Center		8	10	0.03				
Date of Emission Test:		STACK 1						
12/17/09		ENTER EMISSION CONCENTRATIONS FOR STACK#1 in Column C						
Chemical Name	**CAS or MPCA#**	Emission concentration stack#1 ug/m3	Gas flow rate through vent stack#1 m3/sec	Emission rate stack#1 ug/sec	Emission rate stack#1 lb/hr	Emission rate stack#1 tons/year	Total Annual Emissions (tons/year)	Cumulative Emission Rate (ug/sec)
Acetone	67-64-1	126	2.9000E-02	3.6540E+00	2.9000E-05	1.2702E-04	1.2702E-04	3.6540E+00
Benzene	71-43-2	16.2	2.9000E-02	4.6980E-01	3.7286E-06	1.6331E-05	1.6331E-05	4.6980E-01
Cyclohexane	110-82-7	766	2.9000E-02	2.2214E+01	1.7630E-04	7.7221E-04	7.7221E-04	2.2214E+01
Methylene chloride (Dichloromethane)	75-09-2	270	2.9000E-02	7.8300E+00	6.2144E-05	2.7219E-04	2.7219E-04	7.8300E+00
Tetrachloroethylene (Perchloroethylene)	127-18-4	6790	2.9000E-02	1.9691E+02	1.5628E-03	6.8451E-03	6.8451E-03	1.9691E+02
Toluene	108-88-3	9.58	2.9000E-02	2.7782E-01	2.2050E-06	9.6577E-06	9.6577E-06	2.7782E-01
Trichloro-1,2,2-trifluoroethane, 1,1,2- (Freon 113)	76-13-1	4440	2.9000E-02	1.2876E+02	1.0219E-03	4.4760E-03	4.4760E-03	1.2876E+02
							1.2519E-02	

Site Data Entry Worksheet for Air Stripper Systems

Enter Site Data for up to 5 air strippers in yellow cells.

Site/Project Name:	**MN Bio Business Center**
Emission Test Date:	**12/17/2009**

Enter Height of Stack: (meters)	Enter Distance from Stack to Nearest Receptor or Property Boundary: (in meters, minimum 10)	Air Stripper#1 influent flow rate [IFR] (liter/sec)
8	**10**	**0.02**

		Air Stripper #1								
Chemical Name	**CAS or MPCA#**	Influent Groundwater Concentration [IGC] (ug/L)	Effluent Groundwater Concentration [EGC] (ug/L)	Removal Factor [RF] (dimension less)	Emission Rate [ER = IGC*IFR*RF] (ug/sec)	Emission Rate (lbs/hr)	Emissions Rate (tons/yr)	Cumulative Emission Rate (ug/sec)	Total Annual Emissions (lbs/hr)	Total Annual Emissions (tons/year)
Tetrachloroethylene (Perchloroethylene)	127-18-4	2.27E+01	0.00E+00	1.00	5.22E-01	4.14E-06	1.81E-05	5.22E-01	4.14E-06	1.81E-05

Screening Emission Rates (SERs) and Chronic Risk Summary
Based on site inputs provided on Soil Venting Worksheet and Air Stripper Worksheet

Site/Project Name:
MN Bio Business Center
Emission Test Date:
12/17/2009

Chemical Name	CAS # or MPCA #	Chronic Noncancer tox value (ug/m3)	Chronic Cancer tox value (ug/m3)	Annual Disp. Factor ((ug/m3)/g/s)	SER for Chronic Risk (ug/s)	Site Specific Emission Rate (ug/s)	Calculated Conc at Receptor for Chronic Risk (ug/m3)	Site HQ (Noncancer)	ELCR (Cancer)
Acetone	67-64-1	3.00E+04		1230	2.44E+07	3.65E+00	4.49E-03	0.0	
Benzene	71-43-2	3.00E+01	4.55E+00	1230	3.70E+03	4.70E-01	5.78E-04	0.0	1.3E-09
Cyclohexane	110-82-7	6.00E+03		1230	4.88E+06	2.22E+01	2.73E-02	0.0	
Methylene chloride (Dichloromethane)	75-09-2	4.00E+02	2.13E+01	1230	1.73E+04	7.83E+00	9.63E-03	0.0	4.5E-09
Tetrachloroethylene (Perchloroethylene)	127-18-4	1.00E+02	2.00E+01	1230	1.63E+04	1.97E+02	2.43E-01	0.0	1.2E-07
Toluene	108-88-3	5.00E+03		1230	4.07E+06	2.78E-01	3.42E-04	0.0	
Trichloro-1,2,2-trifluoroethane, 1,1,2- (Freon 113)	76-13-1			1230		1.29E+02	1.58E-01		
						Additive Risk:		**0.0**	**1.3E-07**

Screening Emission Rates (SERs) and Acute Risk Summary

Based on site inputs provided on Soil Venting Worksheet and Air Stripper Worksheet

Site/Project Name:
MN Bio Business Center
Emission Test Date:
12/17/2009

***Bolded chemicals are developmental toxicants. The acute toxic values are ceiling values that should not be exceeded.**

Chemical Name	**CAS # or MPCA #**	Acute toxcity value (ug/m3)	1-hr Disp. Factor ((ug/m3)/g/s)	SER [acute risk] (ug/s)	Site Emission Rate (ug/s)	Calculated Conc at Receptor for Acute Risk (ug/m3)	**Site HQ (Noncancer) for acute risk**
Acetone	67-64-1		3343		3.65E+00	5.35E-02	
Benzene	**71-43-2**	**1000**	**3343**	**2.99E+05**	**4.70E-01**	**6.88E-03**	0.0
Cyclohexane	110-82-7		3343		2.22E+01	3.25E-01	
Methylene chloride (Dichloromethane)	75-09-2	10000	3343	2.99E+06	7.83E+00	1.15E-01	0.0
Tetrachloroethylene (Perchloroethylene)	127-18-4	20000	3343	5.98E+06	1.97E+02	2.89E+00	0.0
Toluene	108-88-3	37000	3343	1.11E+07	2.78E-01	4.07E-03	0.0
Trichloro-1,2,2-trifluoroethane, 1,1,2- (Freon 113)	76-13-1		3343		1.29E+02	1.89E+00	
					Additive Risk:		**0.0**

Risk Evaluation Summary - 12/17/09

RASS Version Used: RASS version number = 20060829 - RASS

This worksheet provides a summary of the results of the chronic and acute risk calculations based on site inputs from the Soil Venting and the Air Stripper worksheets. For both chronic and acute risk, an unacceptable risk is indicated in red if the Hazard Index exceeds 1. For chronic risk, an unacceptable risk is also indicated in red if the additive ELCR exceeds 10-5. This worksheet also indicates if levels of any acute developmental toxicants (which are considered ceiling values and should never be exceeded) pose an unacceptable risk.

CHRONIC RISK SUMMARY	
Number of Compounds with Hazard Quotient >1:	**0**
Number of Compounds with Cancer Risk > 10^{-5}	**0**
Noncancer Hazard Index:	**0.0**
Excess Lifetime Cancer Risk (ELCR):	**1.3E-07**

ACUTE RISK SUMMARY	
Number of Compounds with Hazard Quotient >1:	**0**
Hazard Index:	**0.0**

Ceiling Values Exceeded?	
Arsenic	**NO**
Benzene	**NO**
Carbon disulfide	**NO**
Carbon tetrachloride	**NO**
Cellosolve Acetate	**NO**
Chloroform	**NO**
Ethoxyethanol, 2-	**NO**
Ethylbenzene	**NO**
Ethyl chloride	**NO**
Mercury	**NO**
Methoxyethanol, 2-	**NO**
Propylene oxide	**NO**
Trichloroethylene	**NO**

Site Data Entry Worksheet for Soil Vapor Extraction Systems
Enter site data for up to 5 SVE stacks in yellow cells.

Project Name:		Enter Height of Stack#1 (meters):	Enter Distance from Stack#1 to Nearest Receptor or Property Boundary (in meters, minimum 10):	Enter Measured Gas Flow Rate through Vent Stack#1 (m3/sec):				
MN Bio Business Center		**8**	**10**	**0.05**				
Date of Emission Test:		**STACK 1**						
01/14/10		**ENTER EMISSION CONCENTRATIONS FOR STACK#1 in Column C**						
Chemical Name	**CAS or MPCA#**	Emission concentration stack#1 ug/m3	Gas flow rate through vent stack#1 m3/sec	Emission rate stack#1 ug/sec	Emission rate stack#1 lb/hr	Emission rate stack#1 tons/year	Total Annual Emissions (tons/year)	Cumulative Emission Rate (ug/sec)
Acetone	67-64-1	76800	4.6000E-02	3.5328E+03	2.8039E-02	1.2281E-01	1.2281E-01	3.5328E+03
Tetrachloroethylene (Perchloroethylene)	127-18-4	8550000	4.6000E-02	3.9330E+05	3.1215E+00	1.3672E+01	1.3672E+01	3.9330E+05
Trichloro-1,2,2-trifluoroethane, 1,1,2- (Freon 113)	76-13-1	2720000	4.6000E-02	1.2512E+05	9.9303E-01	4.3495E+00	4.3495E+00	1.2512E+05
							1.8144E+01	

Site Data Entry Worksheet for Air Stripper Systems

Enter Site Data for up to 5 air strippers in yellow cells.

Site/Project Name:	**MN Bio Business Center**
Emission Test Date:	**1/14/2010**

Enter Height of Stack: (meters)	Enter Distance from Stack to Nearest Receptor or Property Boundary: (in meters, minimum 10)	Air Stripper#1 influent flow rate [IFR] (liter/sec)
8	**10**	**0.03**

		Air Stripper #1								
Chemical Name	**CAS or MPCA#**	Influent Groundwater Concentration [IGC] (ug/L)	Effluent Groundwater Concentration [EGC] (ug/L)	Removal Factor [RF] (dimension less)	Emission Rate [ER = IGC*IFR*RF] (ug/sec)	Emission Rate (lbs/hr)	Emissions Rate (tons/yr)	Cumulative Emission Rate (ug/sec)	Total Annual Emissions (lbs/hr)	Total Annual Emissions (tons/year)
Acetone	67-64-1	1.46E+01	0.00E+00	1.00	3.65E-01	2.90E-06	1.27E-05	3.65E-01	2.90E-06	1.27E-05
Methyl ethyl ketone (2-Butanone)	78-93-3	7.00E+00	0.00E+00	1.00	1.75E-01	1.39E-06	6.08E-06	1.75E-01	1.39E-06	6.08E-06
Tetrachloroethylene (Perchloroethylene)	127-18-4	1.57E+02	0.00E+00	1.00	3.93E+00	3.12E-05	1.36E-04	3.93E+00	3.12E-05	1.36E-04
Trichloro-1,2,2-trifluoroethane, 1,1,2- (Freon 113)	76-13-1	1.30E+00	0.00E+00	1.00	3.25E-02	2.58E-07	1.13E-06	3.25E-02	2.58E-07	1.13E-06

Screening Emission Rates (SERs) and Chronic Risk Summary
Based on site inputs provided on Soil Venting Worksheet and Air Stripper Worksheet

Site/Project Name:
MN Bio Business Center
Emission Test Date:
1/14/2010

Chemical Name	CAS # or MPCA #	Chronic Noncancer tox value (ug/m3)	Chronic Cancer tox value (ug/m3)	Annual Disp. Factor ((ug/m3)/g/s)	SER for Chronic Risk (ug/s)	Site Specific Emission Rate (ug/s)	Calculated Conc at Receptor for Chronic Risk (ug/m3)	Site HQ (Noncancer)	ELCR (Cancer)
Acetone	67-64-1	3.00E+04		1230	2.44E+07	3.53E+03	4.35E+00	0.0	
Methyl ethyl ketone (2-Butanone)	78-93-3	5.00E+03		1230	4.07E+06	1.75E-01	2.15E-04	0.0	
Tetrachloroethylene (Perchloroethylene)	127-18-4	1.00E+02	2.00E+01	1230	1.63E+04	3.93E+05	4.84E+02	**4.8**	**2.4E-04**
Trichloro-1,2,2-trifluoroethane, 1,1,2- (Freon 113)	76-13-1			1230		1.25E+05	1.54E+02		
						Additive Risk:		**4.8**	**2.4E-04**

Screening Emission Rates (SERs) and Acute Risk Summary

Based on site inputs provided on Soil Venting Worksheet and Air Stripper Worksheet

Site/Project Name:
MN Bio Business Center
Emission Test Date:
1/14/2010

***Bolded chemicals are developmental toxicants. The acute toxic values are ceiling values that should not be exceeded.**

Chemical Name	**CAS # or MPCA #**	Acute toxcity value (ug/m3)	1-hr Disp. Factor ((ug/m3)/g/s)	SER [acute risk] (ug/s)	Site Emission Rate (ug/s)	Calculated Conc at Receptor for Acute Risk (ug/m3)	**Site HQ (Noncancer) for acute risk**
Acetone	67-64-1		3343		3.53E+03	5.17E+01	
Methyl ethyl ketone (2-Butanone)	78-93-3	10000	3343	2.99E+06	1.75E-01	2.56E-03	0.0
Tetrachloroethylene (Perchloroethylene)	127-18-4	20000	3343	5.98E+06	3.93E+05	5.76E+03	0.3
Trichloro-1,2,2-trifluoroethane, 1,1,2- (Freon 113)	76-13-1		3343		1.25E+05	1.83E+03	
					Additive Risk:		**0.3**

Risk Evaluation Summary - 1/14/10

RASS Version Used: RASS version number = 20060829 - RASS

This worksheet provides a summary of the results of the chronic and acute risk calculations based on site inputs from the Soil Venting and the Air Stripper worksheets. For both chronic and acute risk, an unacceptable risk is indicated in red if the Hazard Index exceeds 1. For chronic risk, an unacceptable risk is also indicated in red if the additive ELCR exceeds 10-5. This worksheet also indicates if levels of any acute developmental toxicants (which are considered ceiling values and should never be exceeded) pose an unacceptable risk.

CHRONIC RISK SUMMARY	
Number of Compounds with Hazard Quotient >1:	**1**
Number of Compounds with Cancer Risk > 10^{-5}	**1**
Noncancer Hazard Index:	**4.8**
Excess Lifetime Cancer Risk (ELCR):	**2.4E-04**

ACUTE RISK SUMMARY	
Number of Compounds with Hazard Quotient >1:	**0**
Hazard Index:	**0.3**

Ceiling Values Exceeded?	
Arsenic	**NO**
Benzene	**NO**
Carbon disulfide	**NO**
Carbon tetrachloride	**NO**
Cellosolve Acetate	**NO**
Chloroform	**NO**
Ethoxyethanol, 2-	**NO**
Ethylbenzene	**NO**
Ethyl chloride	**NO**
Mercury	**NO**
Methoxyethanol, 2-	**NO**
Propylene oxide	**NO**
Trichloroethylene	**NO**

Attachment D

MPCA Site Remediation HW Determination Document

Site Name:	Minnesota BioBusiness Center Site, VP12562
Location:	221 First Avenue Southwest (dry cleaner or DC parcel) Rochester, MN 55902 Olmsted County
Site Contractor:	Ken Haberman Landmark Environmental LLC
Phone:	952-887-9601
MPCA Site Coordinator:	Ed Olson PM/ Allan Timm
Phone:	651-757-2627/651-757-2786
Cleanup Program:	VIC

Site Description:

(Information from multiple Phase I ESAs.) The Site is comprised of two former tax parcels located at 219 and 223 First Avenue Southwest. The 14,300 square-foot DC parcel of the Site located in the business district of Rochester, is currently the site of a 8-story Minnesota BioBusiness Center building, located on new tax parcel 221 First Avenue Southwest. This parcel has been developed since prior to 1884 for residential/commercial use. Historic uses include the Model Laundry or Textile Care Services, a large, commercial laundry facility from about 1930 until about 1990, and Clothing Care, a smaller retail dry cleaning facility from about 1960 until 1983. Chemicals used at the property in the past include tetrachloroethene (PCE). A former owner of the DC parcel reported that still bottoms from the dry cleaning operations were taken to the roof to evaporate, a process that was replaced in 1985 when off-site disposal services was secured. A former employee of the dry cleaning operation stated that beginning in about 1975, that used filters in the PCE process were dried and then disposed of in solid waste dumpsters located on the northwest side of the DC parcel.

(Information from multiple Phase II ESAs.) DPRA, an environmental consultant working for the previous Site owner, advanced 12 soil borings and collected 16 soil samples in 1999 and 2000 to investigate the soil and groundwater contamination on the DC parcel. Ground water monitoring wells and soil gas probes have been completed across the Parcel which have shown detections above MPCA action criteria. The soils encountered were fine to medium grained sand and fill material consisting of sand and silty sand. Bedrock was encountered 14.5 feet to 16.5 feet below

ground surface and includes karst characteristics. The soil samples were analyzed for volatile organic compounds (VOCs). The highest contaminant concentrations detected were PCE at a concentration of 160 ug/kg in boring B-7 at a depth of 13 to 15 feet and naphthalene at a concentration of 510 ug/kg in boring B-10. From 2003 through 2006, DPRA completed response actions at the DC parcel which included a Soil Vapor Extraction system which was later converted to a Dual Phase Extraction (DPE) System. The DPE system removed PCE, related break-down products, and other VOCs from the groundwater and soil on the DC parcel.

A supplemental Phase II Investigation was conducted by Landmark on behalf of the City in 2006. Based on the results of the previous investigations and response actions, soil disposal and soil management response actions were completed in accordance with to the June 2007 Voluntary Response Action Plan and Preliminary Response Action Design approved by the MPVA VIC Program July 27, 2007. PCE impacted soil and debris was encountered in a former sump location on the DC parcel during the implementation of the soil response actions. This material was determined to be hazardous waste and was disposed of properly in accordance with the MPCA-approved Environmental Contingency Plan.

The DPRA DPE system was decommissioned in 2007, and replaced with a new MPCA-approved DPE system that was installed in the basement of the Minnesota BioBusiness Center building constructed in 2008 and 2009.

Contaminated Media Description:

The new DPE system, which has been operational since June 29, 2009, has slowly been generating PCE contaminated sediment. The DPE system extracts a mixture of soil vapor and groundwater from the subsurface. Groundwater is separated from the air phase when is passes through a moisture separator. During this process, a small percentage of bedrock sediment settles out of the groundwater and collects on the bottom of the moisture separator tank. After 5 months of operation, the DPE system has generated approximately 95 pounds of sediment, or 19 pounds per month. A sediment sample was collected on October 27, 2009, and analyzed for TCLP VOCs using EPA 8260 Leachate Method. PCE, the only parameter detected, was detected at a concentration of 185 micrograms per liter, which is below the Toxicity Characteristic Wastes Maximum Contaminant Concentration of 700 ug/L for PCE. The laboratory analytical report is attached.