

August 8, 2011

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

**Re: Quarterly Groundwater Monitoring and Dual Phase Extraction System
Effectiveness 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 April 22, 2011 through June 16, 2011, as well as quarterly groundwater monitoring data from samples collected on May 19, 2011.

The DPE system has continued to operate sequentially at all of the DPE system wells after 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 utilizing a 6-hour flow control valve. Therefore, air emissions from each well are collected during the 6-hour sample collection period. 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.

System Operational Results

When comparing the June 16, 2011, concentrations to the baseline emissions data from April 9, 2009, the concentrations of VOCs decreased from 14,613,880 micrograms per cubic meter (ug/m^3) to 8,992 ug/m^3 of total volatile organic compounds (VOCs), a decrease of 99.9 percent (See Figures 4A and 4B, and Table 2). Perchloroethene (PCE) concentrations decreased from 11,600,000 ug/m^3 to 668 ug/m^3 , a decrease of 99.9 percent from the baseline concentration (See Figures 4A and 4B). The VOC and PCE concentrations from the April 22, May 19, and June 16, 2011, sampling events decreased from the July 26, 2010, concentrations as shown in Figure 4B and Table 2. The DPE system removed 10.3 pounds of total VOCs, including 2.2 pounds from PCE, from March 23, 2011, through June 16, 2011 (see Figure 5 and Table 2). Through June 16,

2011, the DPE system has removed a total of 3,367 pounds of total VOCs and 2,633 pounds of PCE. 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) has been used to evaluate the emissions rates from the DPE system and air stripper stacks on the Property during the DPE system sampling events. In June 2011, the MPCA Voluntary Investigation and Cleanup (VIC) Program adopted system emissions guidance created by the MPCA Petroleum Remediation (PR) Program in February 2011. The PR program emissions evaluation spreadsheets are more user friendly than the RRASS; therefore, Landmark plans to use the PR Program spreadsheets for evaluating the emissions from the remaining monitoring events. For comparison purposes, the DPE system emissions were evaluated using both the RRASS and the PR Program spreadsheets during this reporting period. The site specific emissions rates calculated from both the RRASS and PR Program spreadsheets were similar, and did not exceed any MPCA acute or chronic standards. The emissions screening data is summarized in Table 4 and the RRASS and PR Program spreadsheets are provided in Attachment C.

The cumulative total VOC mass removed from the DPE system groundwater discharge during air stripper operation was 0.47 pounds on June 16, 2011. 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 for the DPE and monitoring wells generally showed a decreasing trend from the March 23, 2011, monitoring event. The DPE well, monitoring well, and sump hydrographs are provided in Figure's 6 and 7. Landmark's groundwater flow interpretations provided in Figures 8A, 8B, and 8C show elevated groundwater elevations when compared to the August 2010 data, when the observed groundwater elevations during DPE system operation were at their lowest levels. 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 May 19, 2011. After approximately two years of DPE system operation, the PCE concentrations have decreased at all of the monitoring and DPE wells, except for MW-19, where the concentration of PCE has only increased from 2.4 to 4.7 micrograms per liter (ug/L) [see Figure 9 and Table 9]. The PCE concentration at MW-19 is still below the Minnesota department of Health's Health Risk Limit (HRL) of 5 micrograms per liter (ug/L). The associated percent decrease of PCE concentration at each well is listed as follows: MW-14 (84.3%), MW-15 (100%), MW-16 (90.7%), MW-17 (70%), MW-18 (98.6%), MW-20 (97.2%), DPE-1 (99.9%), DPE-2 (95.6%), DPE-3 (97.9%), DPE-4 (99%), DPE-5

(95%), DPE-6 (87.6%), DPE-7 (28.7%) and DPE-8 (95.1%). Increased concentrations of PCE, when compared to the March 2011 groundwater data were observed at DPE-1, DPE-6, DPE-7, and DPE-8. Figure 10 shows the isoconcentration contour map for PCE during the May 19, 2011, sampling event. 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. The natural attenuation data collected prior to the MPCA's approval is provided in Table 11. The following field parameter data is still collected at each well on a quarterly basis: temperature, conductivity, pH, oxidation reduction potential, and dissolved oxygen (See Table 12).

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 March 23, 2011, through June 16, 2011, the DPE system removed 3,367 pounds of total VOCs, including 2,633 pounds of PCE from the subsurface.
 - DPE system emissions concentrations of VOCs and PCE from March 23, 2011, have stayed at 99.9 percent, when compared to the baseline emissions concentrations.
- During this reporting period, the site specific emissions rates for PCE were below the MPCA's RRASS and PR Program acute and chronic emissions criteria.
- Although seasonal fluctuations and DPE system shutdown periods have contributed to increases in the groundwater elevations, sequential operation of all DPE system wells continues to 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 (84.3%), MW-15 (100%), MW-16 (90.7%), MW-17 (70%), MW-18 (98.6%), MW-20 (97.2%), DPE-1 (99.9%), DPE-2 (95.6%), DPE-3 (97.9%), DPE-4 (99%), DPE-5 (95%), DPE-6 (87.6%), DPE-7 (28.7%) and DPE-8 (95.1%).

Recommendations

In an email dated June 24, 2011, the MPCA provided the following comments to the Quarterly Groundwater and DPE System Effectiveness Report dated April 22, 2011, and prepared by Landmark:

1. We agree that the DPE system is still effectively removing VOCs.
2. We do also recognize that the system had been shut-down for a considerable amount of time, and this is coupled with significant increases in local precipitation has resulted in an increase in the groundwater elevations. This may be reducing the concentrations of PCE that is being extracted by the DPE system.
3. We do not necessarily agree with the recommendation statement “DPE system effects as approaching a point of diminishing returns.”
4. Our opinion is that the PCE concentrations in the groundwater are still quite high and that the DPE system operation/quarterly reporting (including GW monitoring) continue. It may be feasible to preferentially open the more contaminated down-gradient ports (DPE-2 and -3) and reduce or close the lesser impacted extraction ports DPE-6 and -7) to increase the efficiency of the DPE system. The overall DPE system could continue using a six-hour cycle.
5. We suggest that Landmark consider: a. the evaluation as to the continued need of the air stripper system for the wastewater system, and b. the need for the vapor intrusion pathway survey of adjoining properties (i.e. before the DPE system shut down and after).

Based on the MPCA’s comments, Landmark recommends continuing sequential operation of all eight DPE wells, unless a change in the operational configuration would be beneficial based on the DPE system and groundwater data analysis. 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. The monthly DPE system operational results and the groundwater monitoring results will continue to be submitted to the MPCA on a quarterly basis.

Per the MPCA’s comment 5a listed above, Landmark does not believe the air stripper should be decommissioned at this time in the event that future changes in the DPE system operating configuration generate elevated groundwater concentrations of PCE. Landmark will address the MPCA’s comment 5b concerning the need for the vapor intrusion pathway of adjoining properties in a separate letter.

Based on the comparison of the RRASS and PR Program emissions evaluations, Landmark is requesting approval to switch from the RRASS to the PR Program procedures for evaluating the DPE system emissions. The results for each emissions evaluation were similar; however, the PR Program procedures are much more efficient.

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,

A handwritten signature in black ink, appearing to read "Jason D. Skramstad". The signature is fluid and cursive, with the first name "Jason" and last name "Skramstad" clearly distinguishable.

Jason D. Skramstad, P.E.

Cc: Terry Spaeth, City of Rochester

F:\PROJECTS\Crc\Monthly System Reports\20110728 DPE GW Quarterly Report

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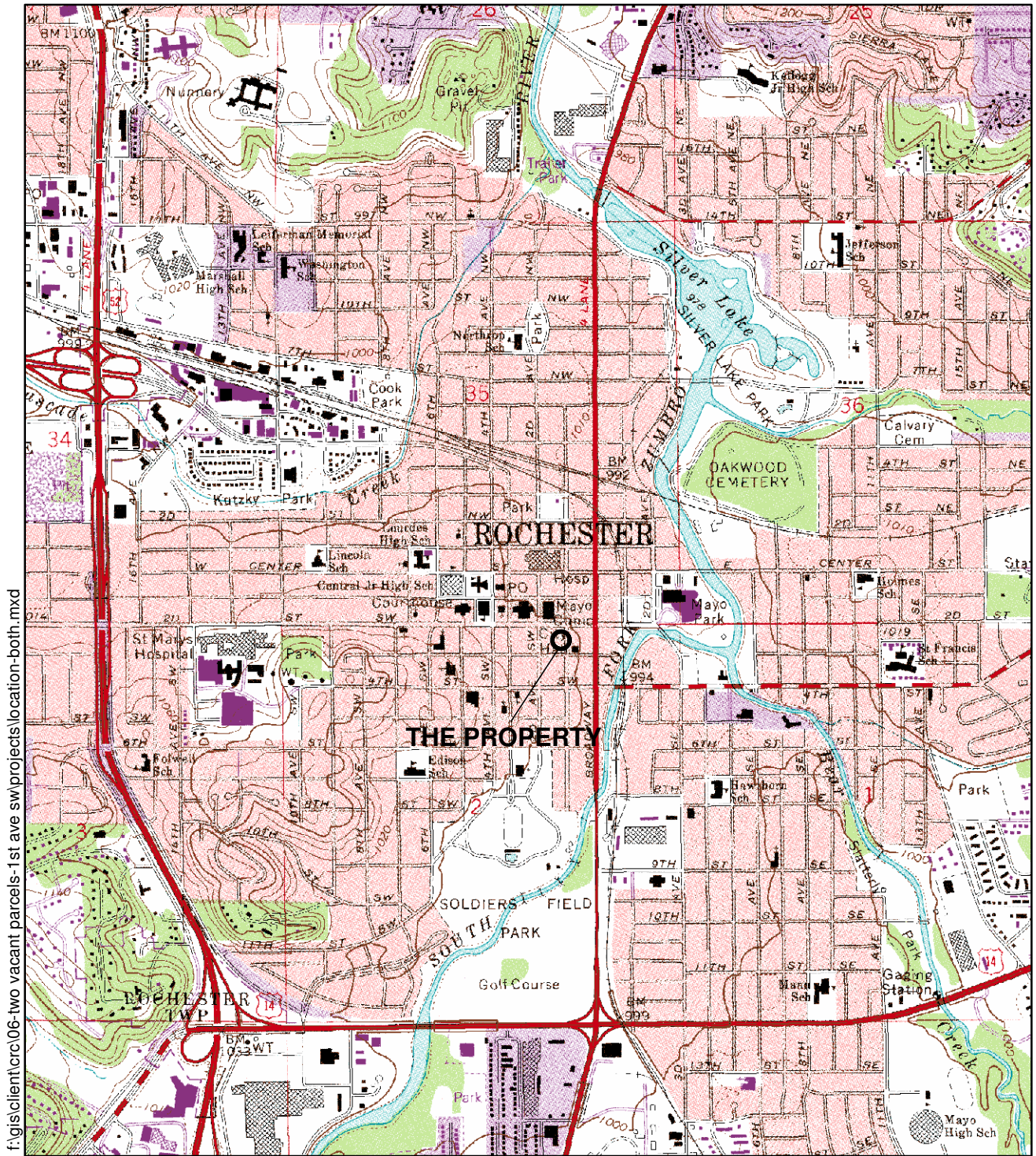
Attachment B

Analytical Results for Air, Groundwater and Wastewater from April 2011 to June 2011

Attachment C

RASS and PRP Worksheets from April 2011 to June 2011

Figures



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

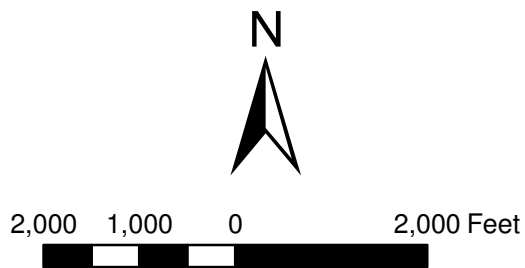
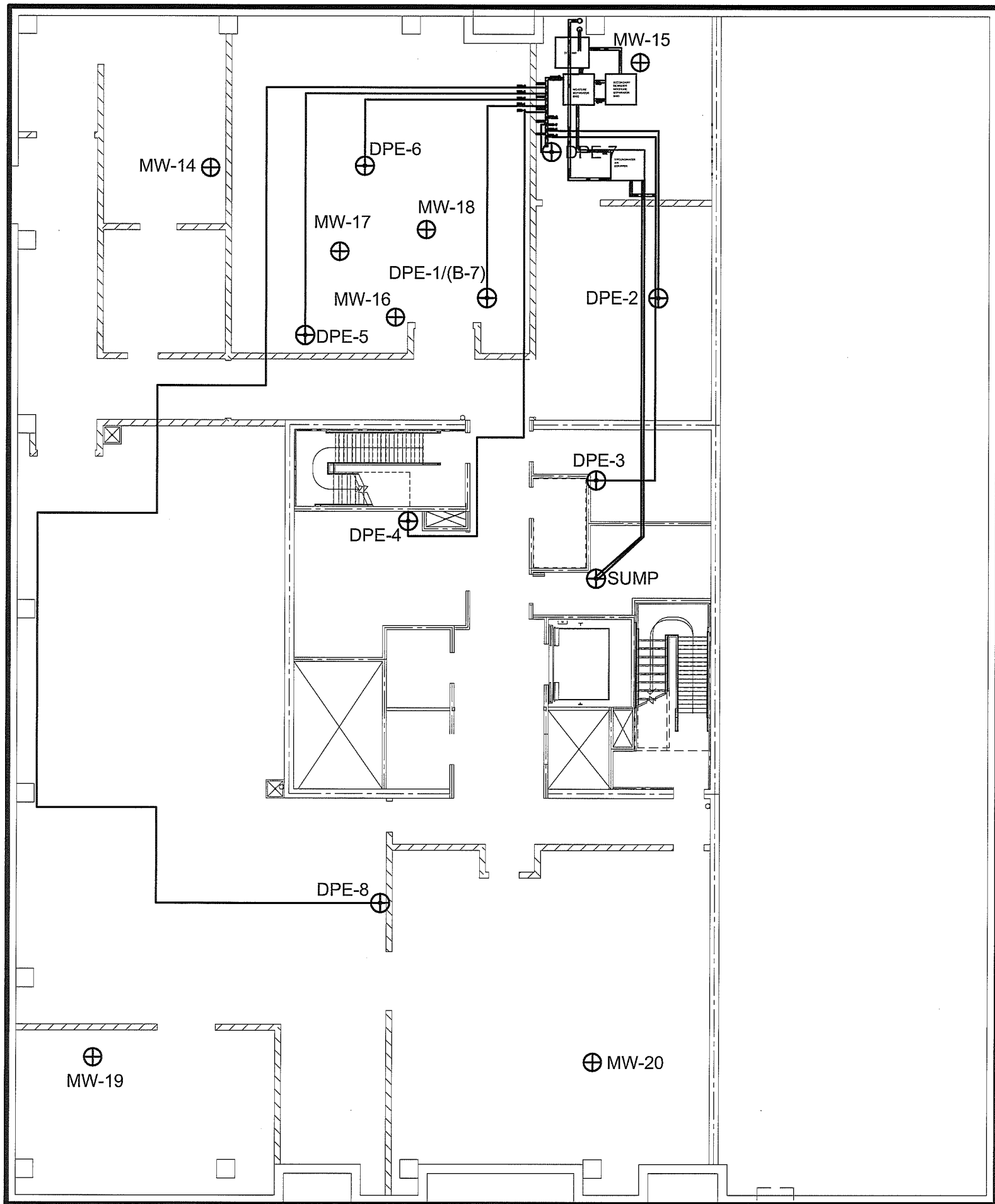


FIGURE 1

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



20 feet
SCALE

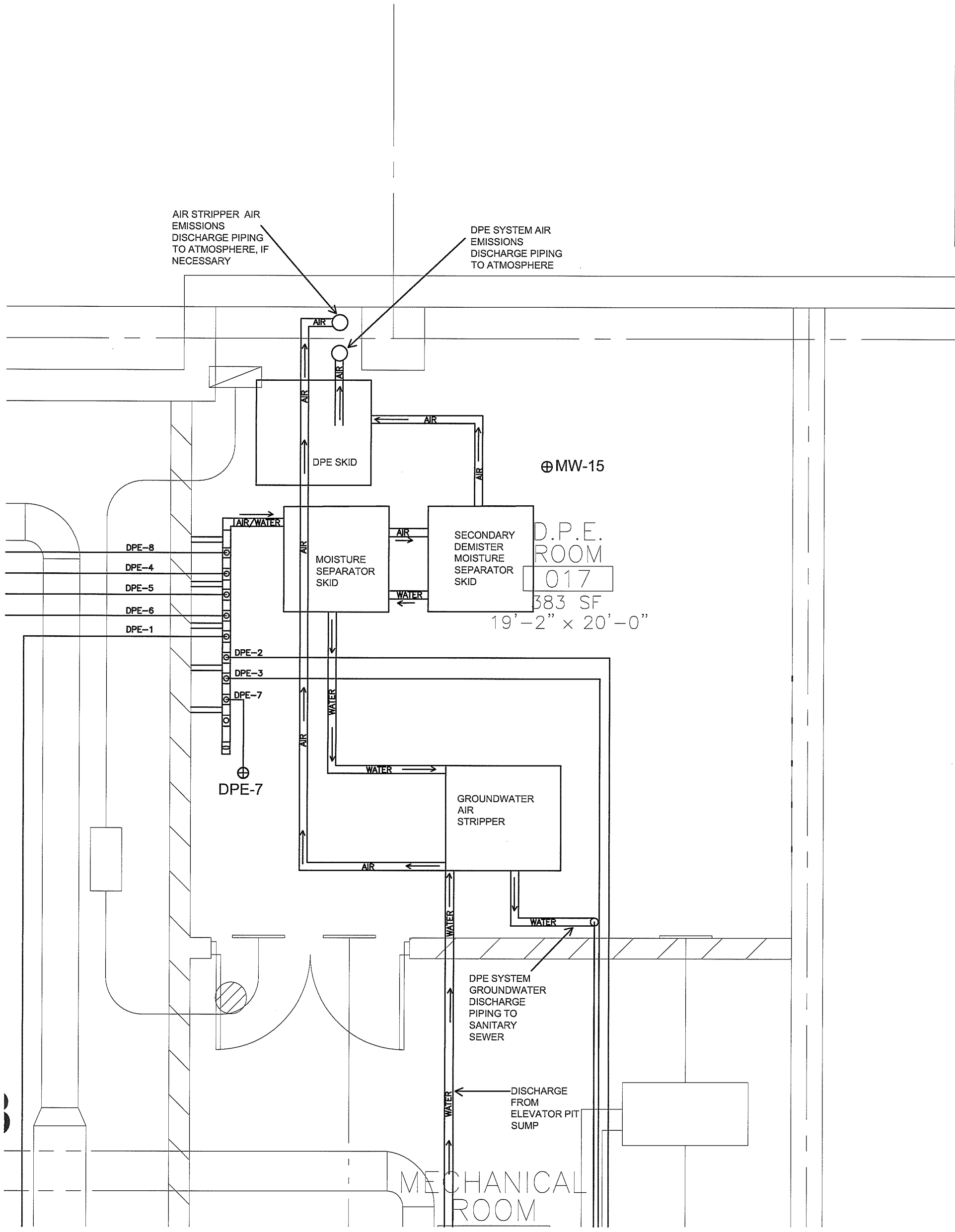
BASE DRAWINGS PROVIDED BY HGA
F:/Projects/CRC/CAD/basement planview\DPE AS Layout.dwg

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

-  Existing DPE Piping Location
-  Proposed Air Emissions Piping Location
-  Proposed Groundwater Discharge Piping Location



1 in = 3 ft
APPROXIMATE SCALE

BASEDRAWINGS PROVIDED BY HGA
F:\Projects\CRC\CAD\basement_planview\20070829 DPE System\20100413 DPE Room.dwg

Rev	Date	By	Description

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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: 4/13/2010	Revision: .
Drawing Number: .	Sheet	Of Sheets

FIGURE 4A

DPE EMISSIONS CONCENTRATIONS-JUNE 2009 TO PRESENT
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

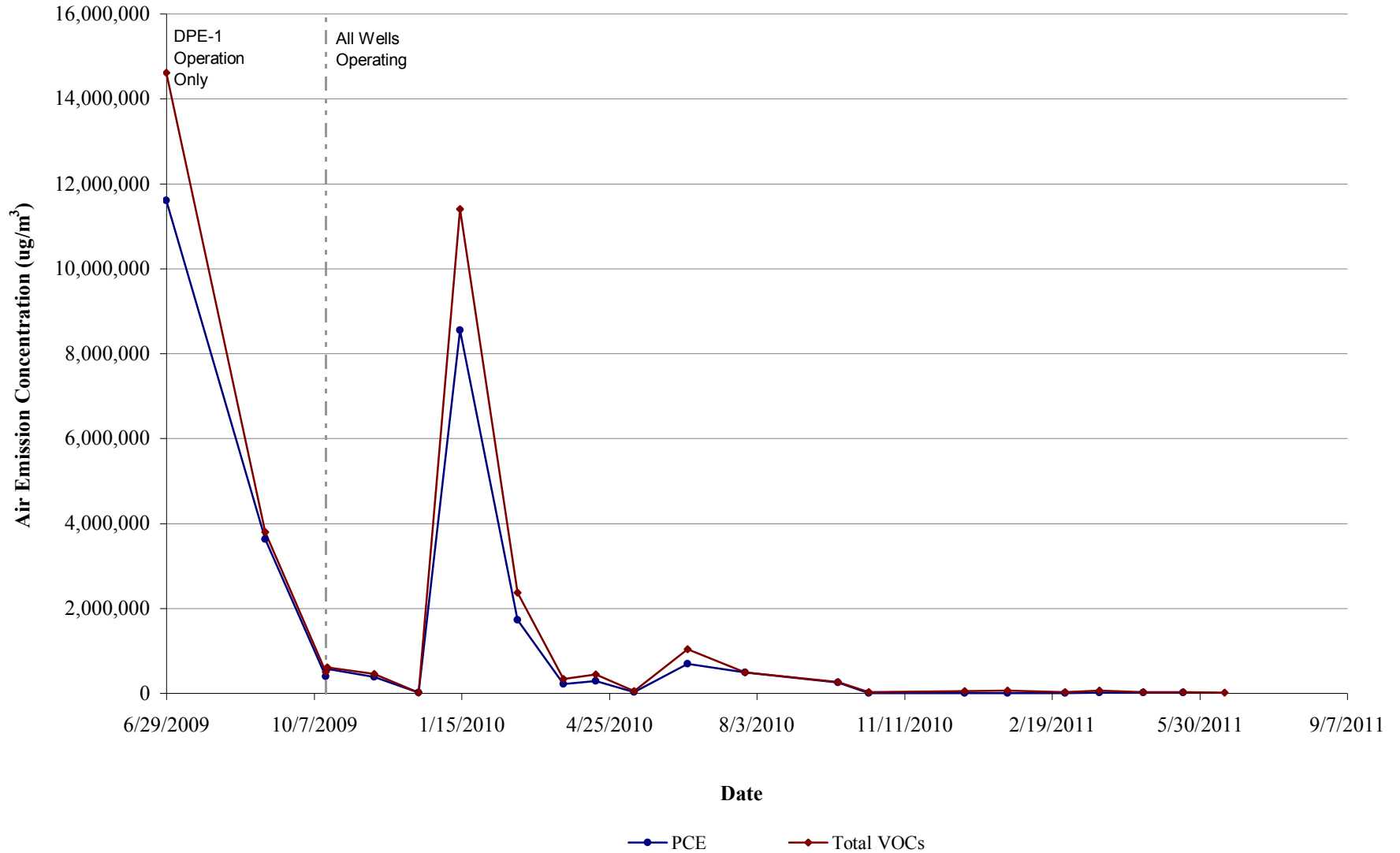


FIGURE 4B

DPE EMISSIONS CONCENTRATIONS - JULY 2010 TO PRESENT
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

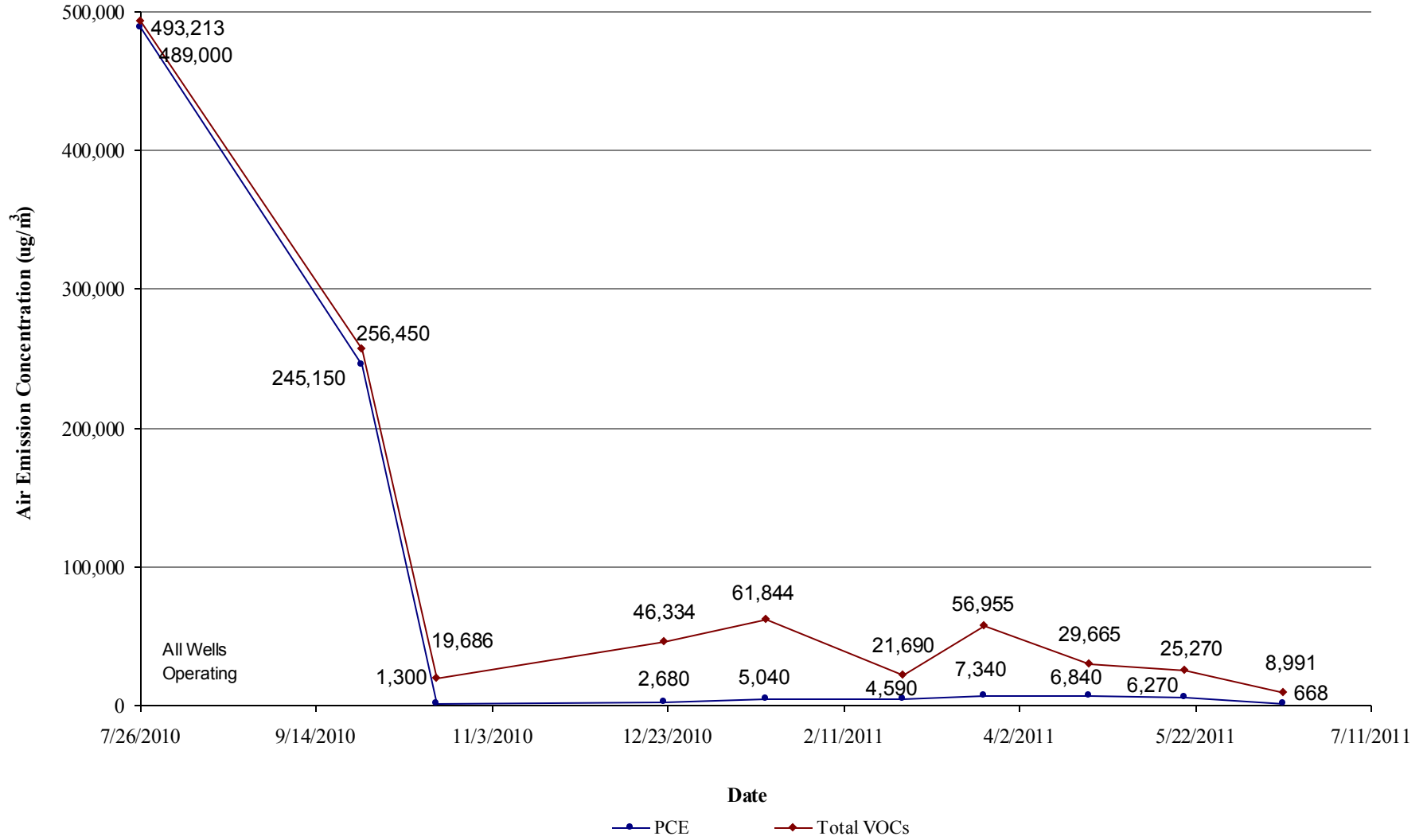


FIGURE 5

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

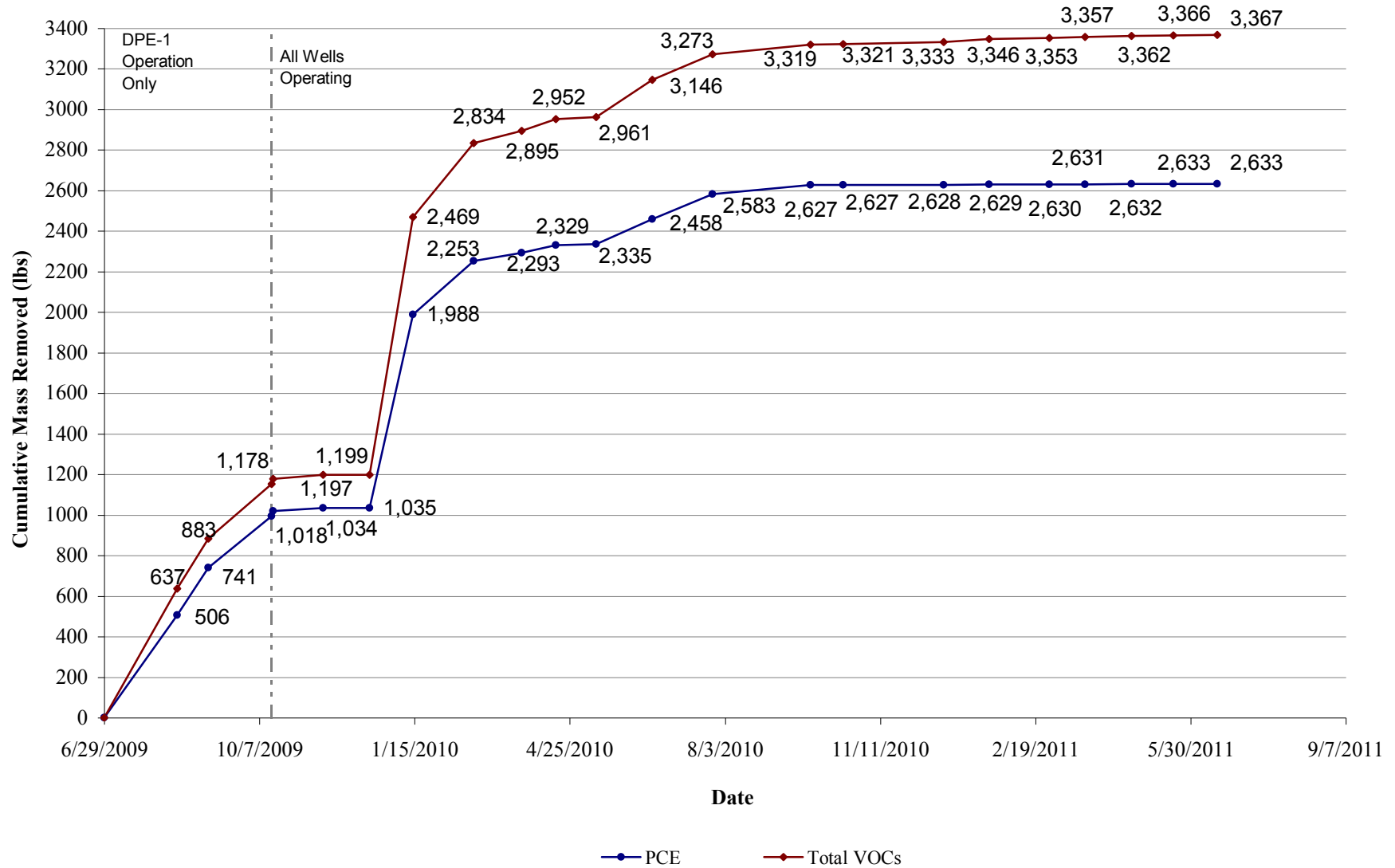


FIGURE 6

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

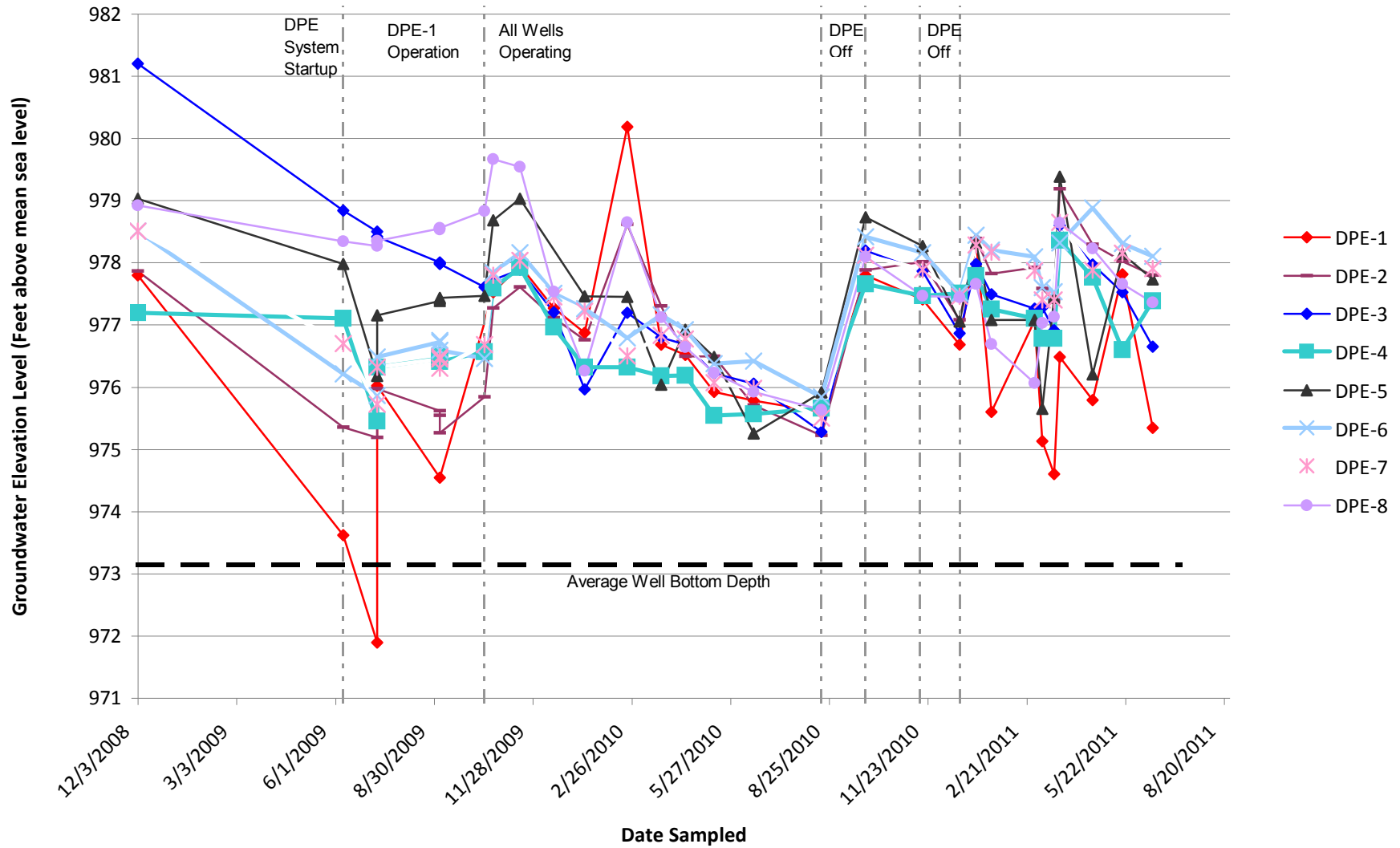
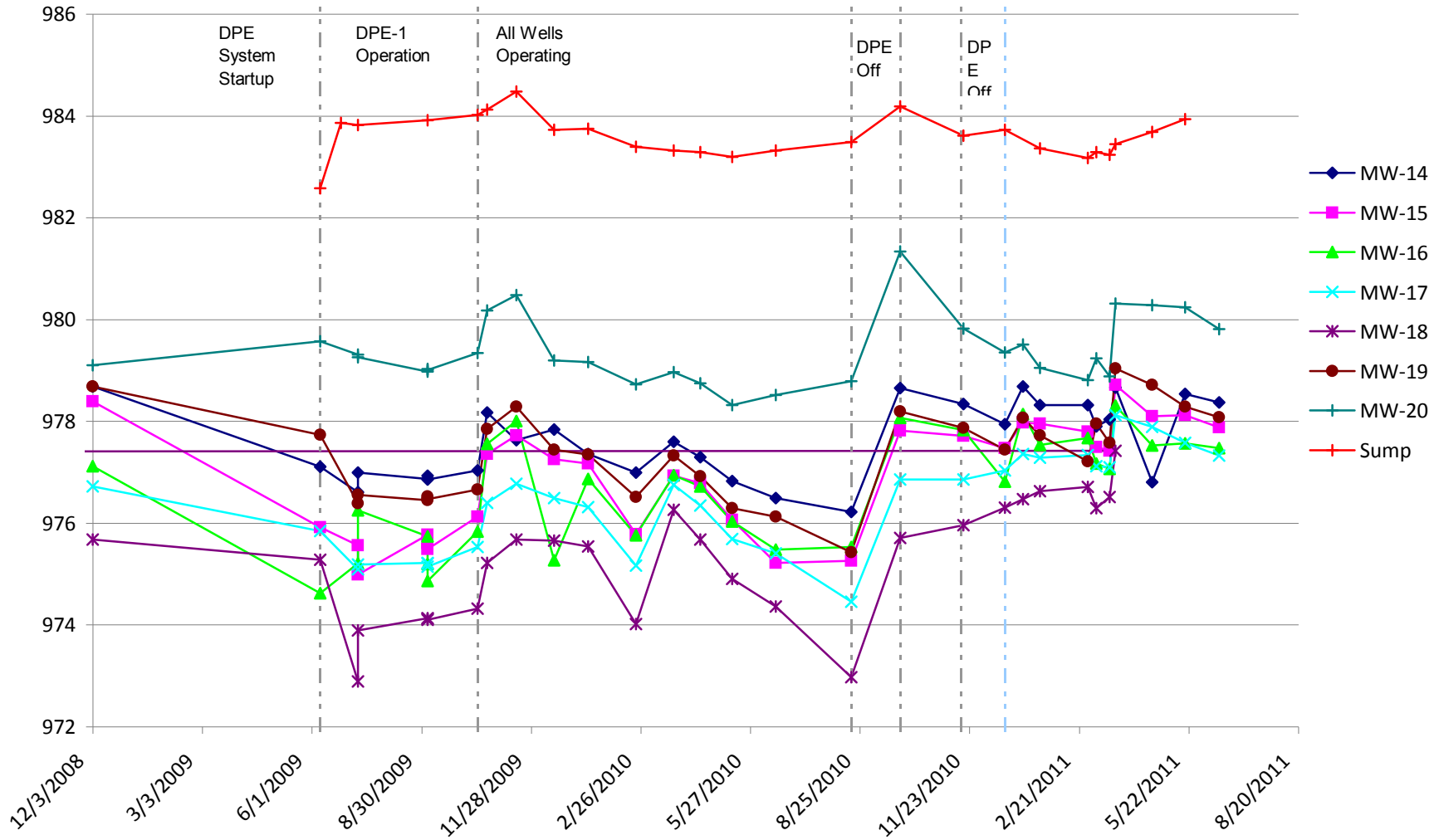
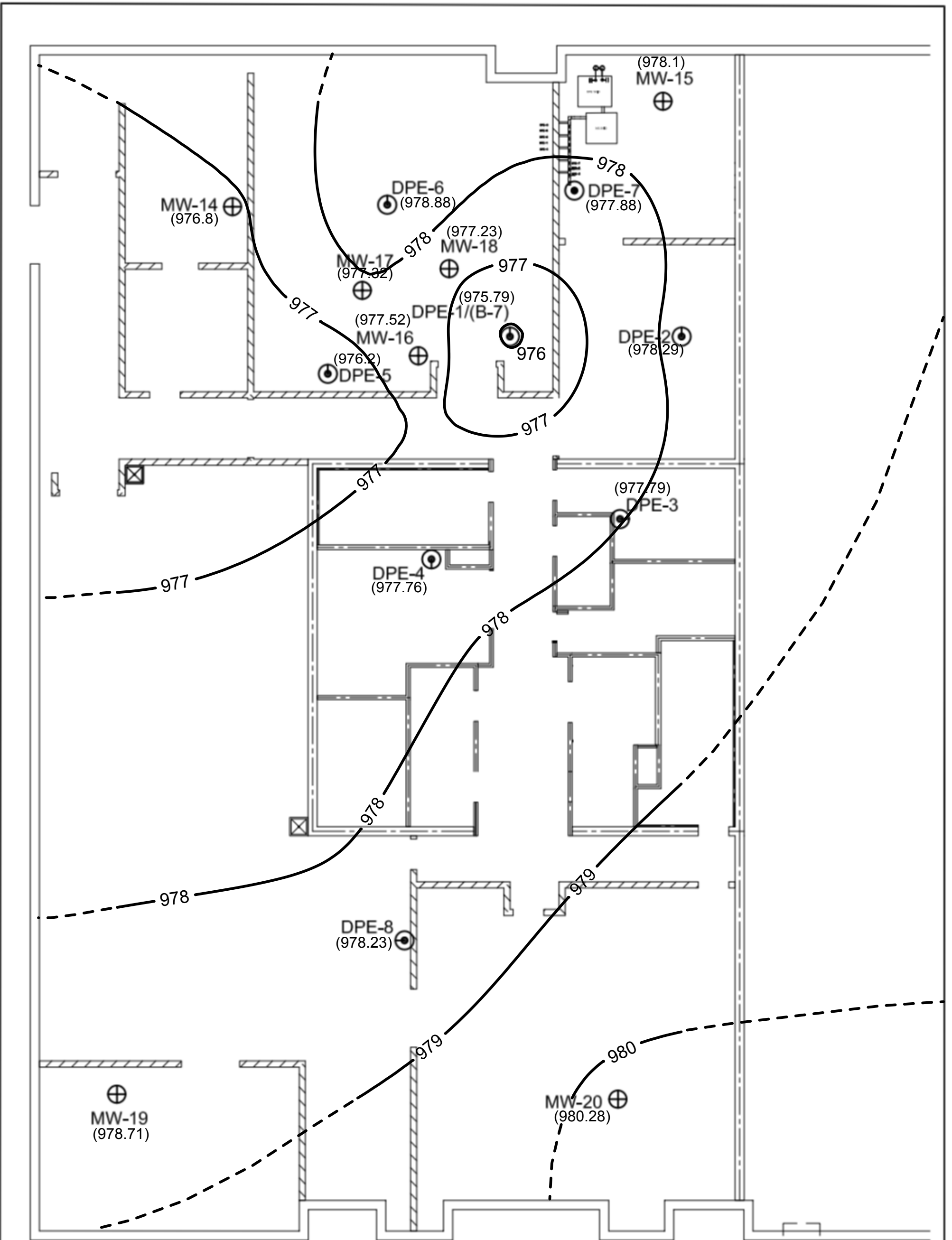


FIGURE 7

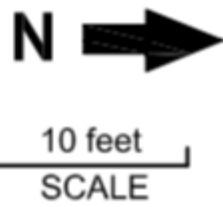
MONITORING WELL AND SUMP HYDROGRAPHS
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota





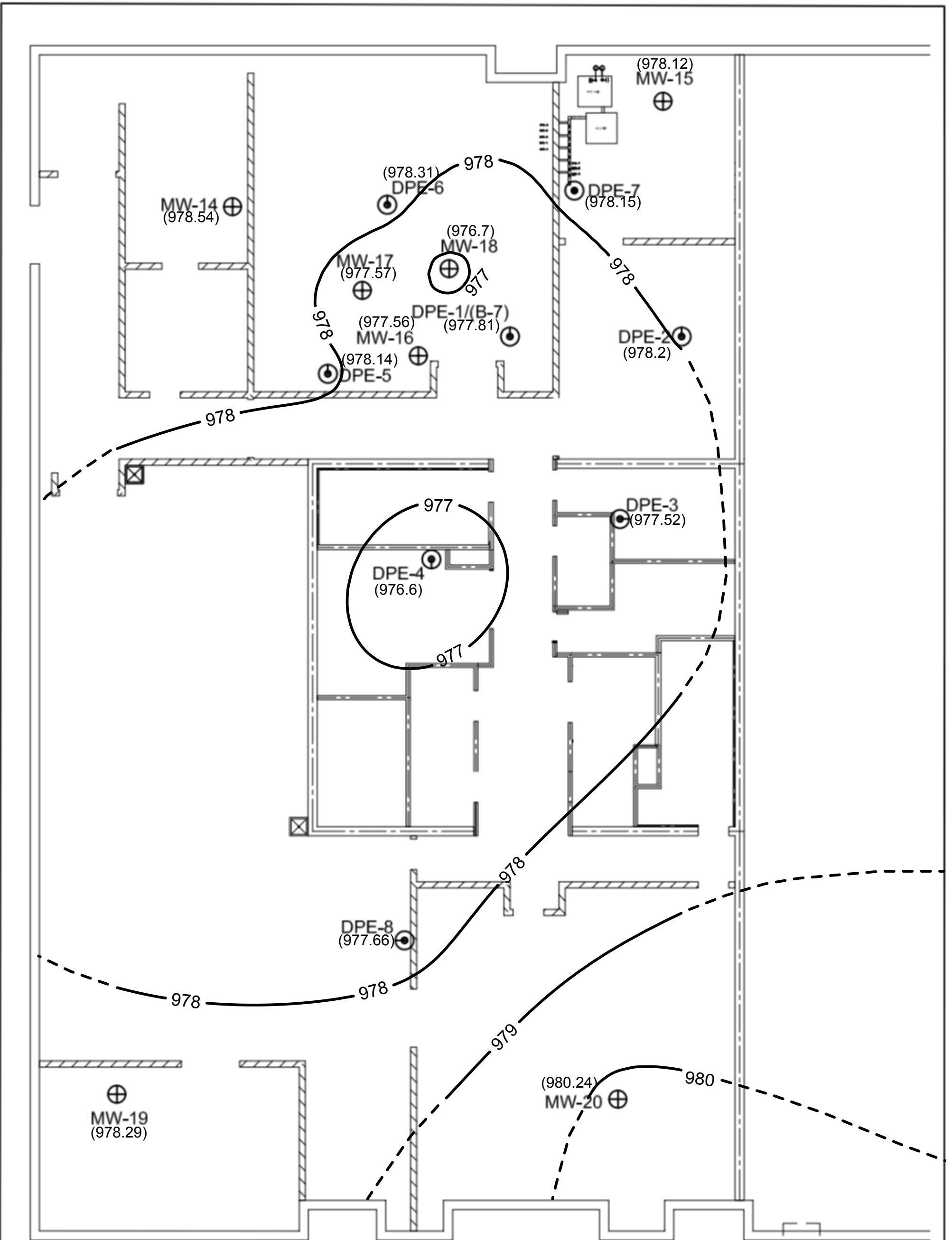
LEGEND

- ⊙ DPE Well Location
- ⊕ Monitoring Well Location
- (976.92) Groundwater Elevation (feet above mean sea level)



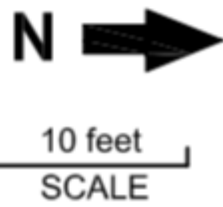
BASE DRAWING PROVIDED BY HGA

Rev	Date	By	Description	LANDMARK ENVIRONMENTAL, LLC 2042 West 98th Street Bloomington, MN 55431	FIGURE 8A GROUNDWATER FLOW INTERPRETATION- APRIL 2011 221 FIRST AVENUE S.W. ROCHESTER, MINNESOTA	Landmark Project Number: CRC			
						Drawn: KAB	Checked: JDS	Designed: JDS	
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						Drawing Number: .	Sheet	Of	Sheets



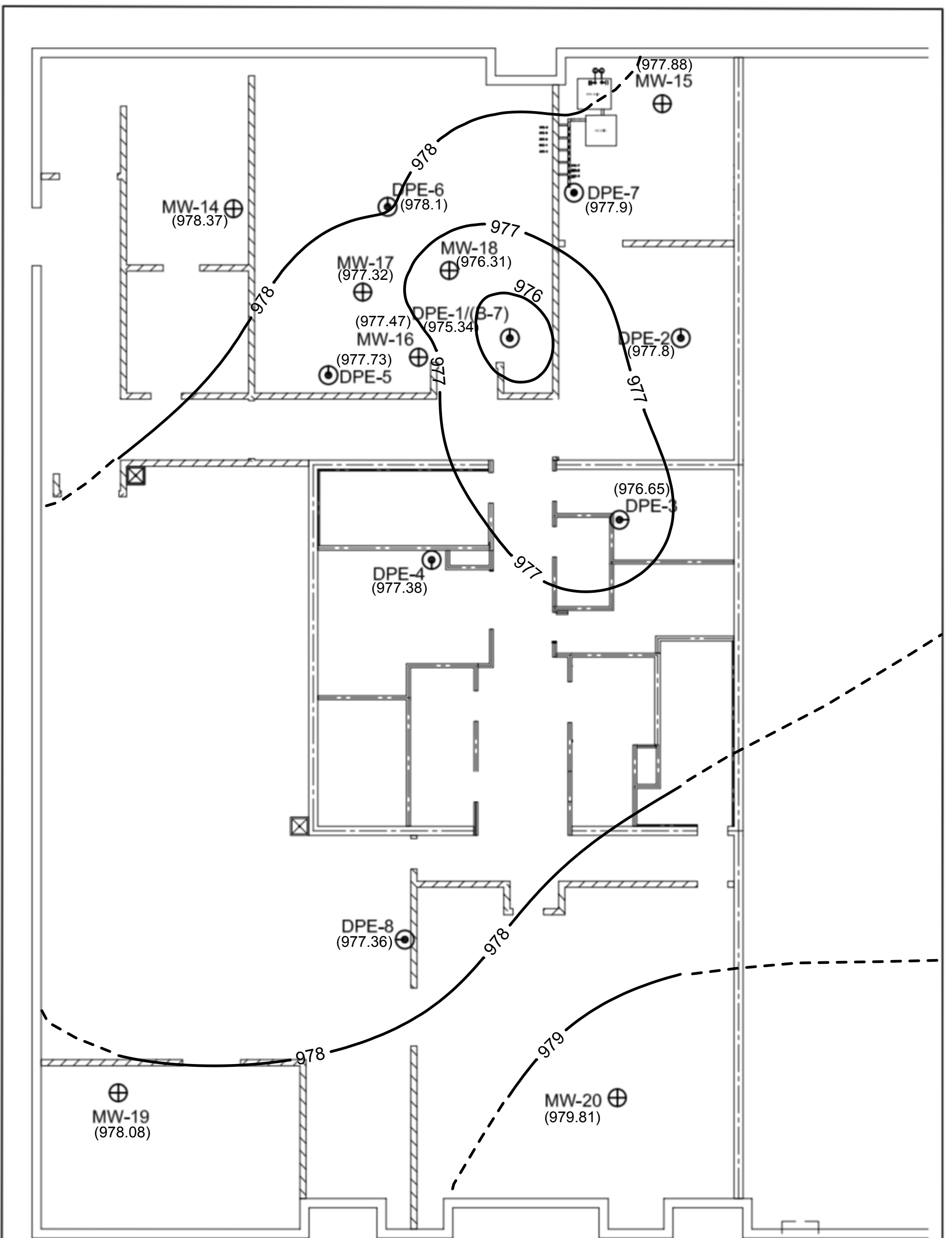
LEGEND

- ⊙ DPE Well Location
- ⊕ Monitoring Well Location
- (976.92) Groundwater Elevation (feet above mean sea level)



BASE DRAWING PROVIDED BY HGA

Rev	Date	By	Description	LANDMARK ENVIRONMENTAL, LLC 2042 West 98th Street Bloomington, MN 55431	FIGURE 8B GROUNDWATER FLOW INTERPRETATION- MAY 2011 221 FIRST AVENUE S.W. ROCHESTER, MINNESOTA	Landmark Project Number: CRC			
						Drawn: KAB	Checked: JDS	Designed: JDS	
						Scale: .	Date: 7/15/2011	Revision:	
						Drawing Number: .	Sheet	Of	Sheets



LEGEND

- ⊙ DPE Well Location
- ⊕ Monitoring Well Location
- (976.92) Groundwater Elevation (feet above mean sea level)



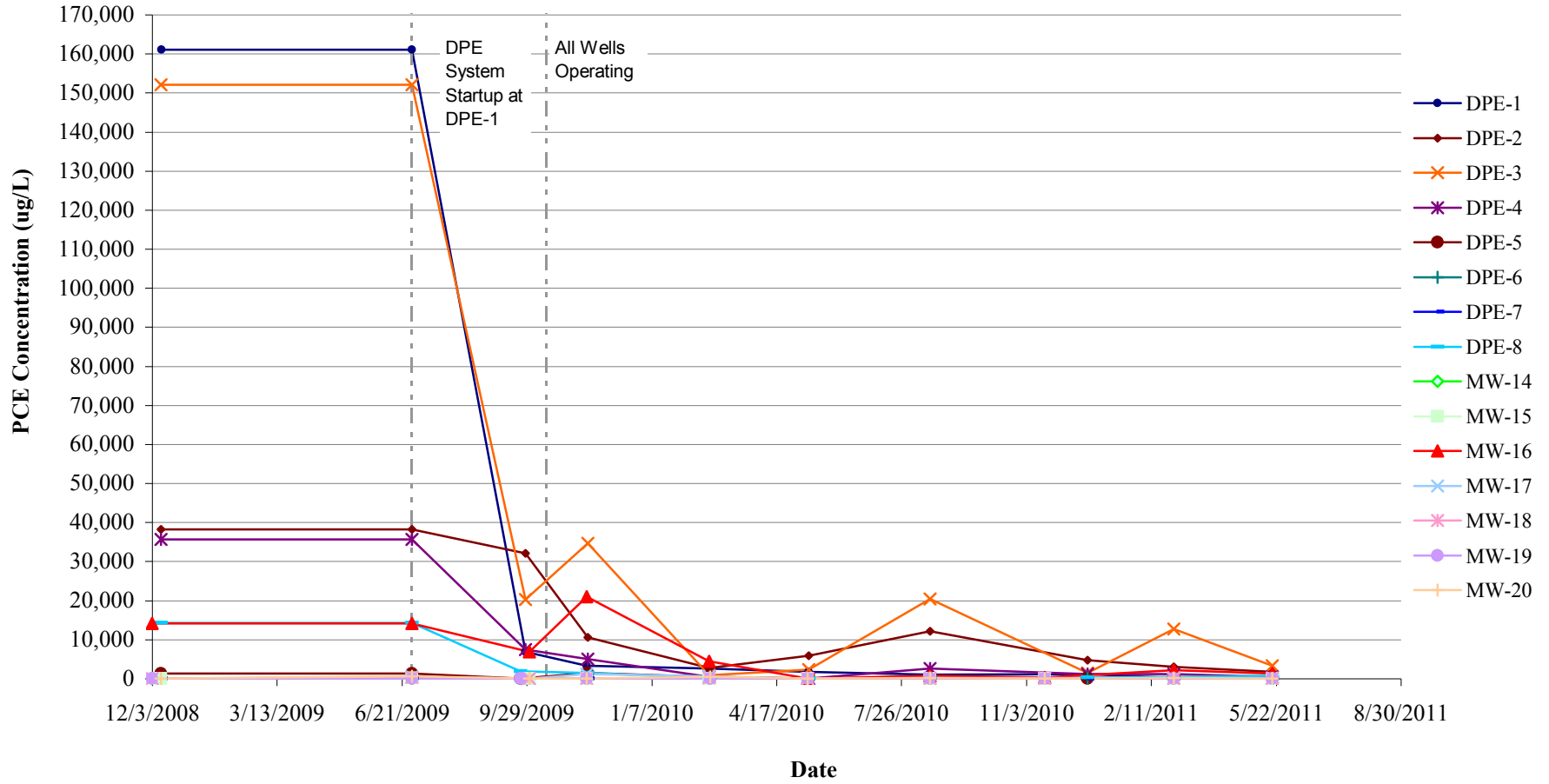
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SCALE

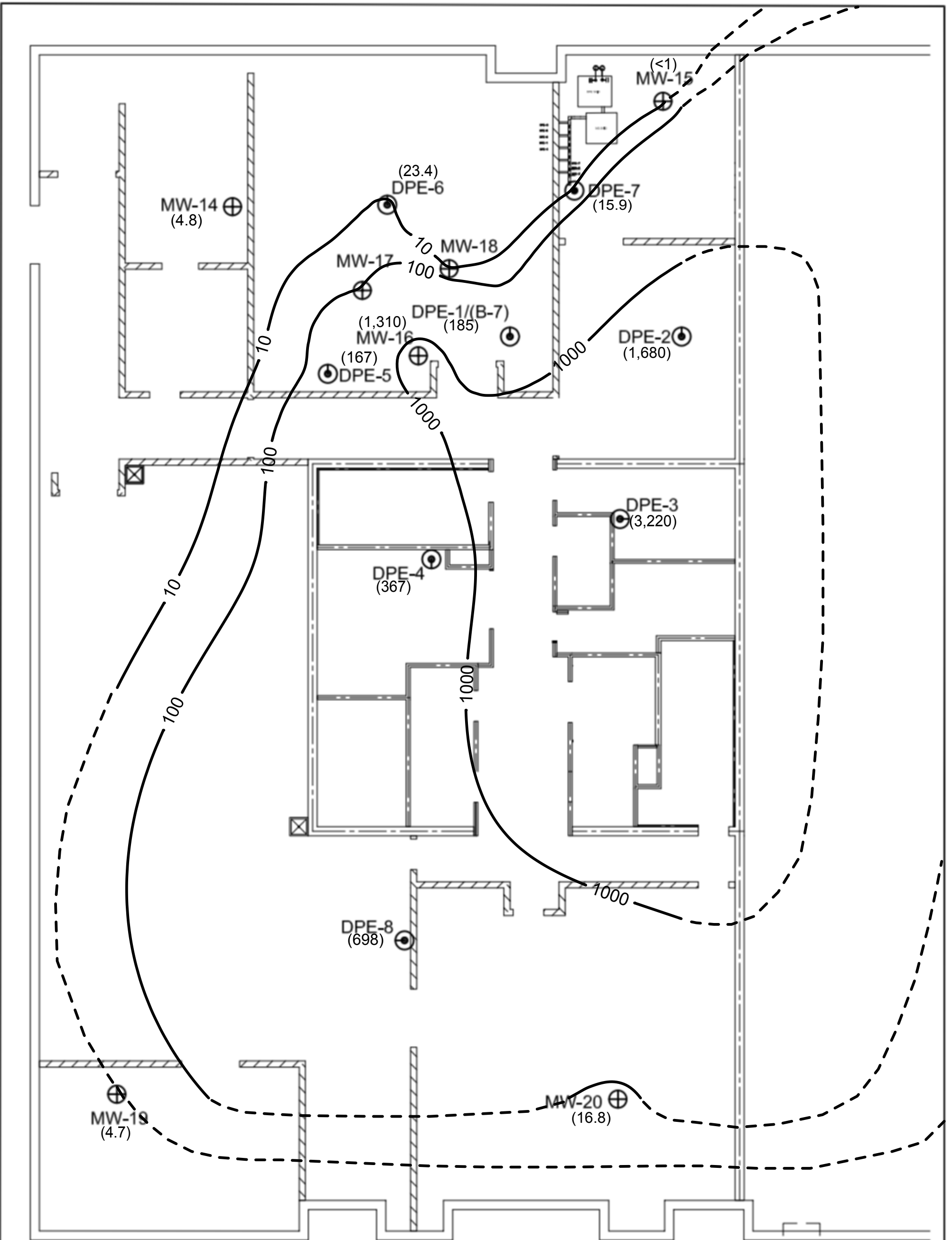
BASE DRAWING PROVIDED BY HGA

Rev	Date	By	Description	LANDMARK ENVIRONMENTAL, LLC 2042 West 98th Street Bloomington, MN 55431	FIGURE 8C GROUNDWATER FLOW INTERPRETATION- JUNE 2011 221 FIRST AVENUE S.W. ROCHESTER, MINNESOTA	Landmark Project Number: CRC			
						Drawn: KAB	Checked: JDS	Designed: JDS	
						Scale: .	Date: 7/15/2011	Revision:	
						Drawing Number: .	Sheet	Of	Sheets

FIGURE 9

PCE CONCENTRATIONS IN GROUNDWATER
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota





LEGEND

- ⊙ DPE Well Location
- ⊕ Monitoring Well Location
- (4.2) PCE Groundwater Concentration (micrograms per liter)

LEGEND

1. MW-17 and 18 are not shallow wells; therefore, the data from these wells was not used in the contouring calculations.



10 feet
SCALE

BASE DRAWING PROVIDED BY HGA

Rev	Date	By	Description	LANDMARK ENVIRONMENTAL, LLC 2042 West 98th Street Bloomington, MN 55431	FIGURE 10 SHALLOW PCE GROUNDWATER CONCENTRATION INTERPRETATION MAY 2011 221 FIRST AVENUE S.W. ROCHESTER, MINNESOTA	Landmark Project Number: CRC			
						Drawn: KAB	Checked: JDS	Designed: JDS	
						Scale: .	Date: 7/15/2011	Revision:	
						Drawing Number: .	Sheet	Of	Sheets

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 temporary 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 while 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 solenoid 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.
	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.
6-Feb-10	7:22	Y	MS High Level	On/Off	
10-Feb-10	NA	NA	MS High Level	Off/On	Landmark onsite to clean the transfer pump floats, the moisture separator, the moisture separator site tube elbow, discharge pump floats, and the pump inlet screen. Landmark also restarted the system.
	16:47	Y	MS High Level	On/Off	
	18:00	NA	MS High Level	Off/On	Landmark restarted the system remotely.
	19:42	Y	MS High Level	On/Off	
11-Feb-10	10:34	NA	MS High Level	Off/On	Landmark restarted the system remotely.
	12:54	Y	MS High Level	On/Off	
12-Feb-10	NA	NA	MS High Level	Off/On	Landmark onsite to troubleshoot the MS High Level alarm. Landmark performed the following tasks: checked the MS level switch configurations; ran diagnostic tests to narrow down the cause of the MS High Level alarm; replaced the check valve upstream of the MS pump; and, took apart the MS pump head to inspect and clean the internal pump parts.
16-Feb-10	NA	NA	NA	On	System is operational; however, remote monitoring of the system showed the MS transfer pump cycling every 2 minutes. Landmark onsite to replace the MS transfer pump stator, and troubleshoot the continuous cycling issue with the transfer pump.
22-Feb-10	NA	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event, quarterly groundwater monitoring event , to disabled the sensophone sound alarm, and remove sediment from the primary moisture separator (MS1).

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
23-Feb-10	NA	NA	NA	On/Off/On	Landmark on site to finish the quarterly groundwater monitoring event , and to provide oversight while PLC installs the secondary moisture separator (MS2). MS2 level switch was determined to be faulty; however, the DPE system was restarted.
26-Feb-10	NA	NA	NA	On	Landmark and PLC were on site to replace the faulty level switch for MS2, and replace the MS1 and MS2 filters.
7-Mar-10	18:00	Y	DPE Pump High Inlet Vacuum	On/Off	
9-Mar-10	NA	NA	DPE Pump High Inlet Vacuum	Off/On	Landmark onsite to permanently remove the DPE pump inlet screen and change the oil in the DPE pump. Oil in the DPE pump was changed after 4,472 hours of operation.
25-Mar-10	NA	NA	NA	On	Landmark on site to conduct monthly monitoring and sampling event , and clean the air stripper by adding 1 gallon of hydrochloric acid.
26-Mar-10	5:16	Y	DPE Pump High Inlet Vacuum	On/Off/On	System shut down during operation at DPE-8. System restarted remotely by Landmark.
	11:15	Y	DPE Pump High Inlet Vacuum	On/Off/On	System shut down during operation at DPE-8. System restarted by Paramark as directed by Landmark after opening the bleed valve on DPE-8's well head.
	17:15	Y	DPE Pump High Inlet Vacuum	On/Off	System shut down during operation at DPE-8.
29-Mar-10	11:17	Y	DPE Pump High Inlet Vacuum	Off/On	System shut down during operation at DPE-8. System restarted remotely by Landmark after troubleshooting the system.
	12:36	Y	DPE Pump High Inlet Vacuum	On/Off/On	System shut down during operation at DPE-8. System restarted remotely by Landmark after troubleshooting the system.
	13:41	Y	DPE Pump High Inlet Vacuum	On/Off/On	System shut down during operation at DPE-8. System restarted remotely by Landmark after troubleshooting the system.
	13:42	Y	DPE Pump High Inlet Vacuum	On/Off/On	System shut down during operation at DPE-8. System restarted remotely by Landmark after troubleshooting the system.
	13:56	Y	DPE Pump High Inlet Vacuum	On/Off/On	System shut down during operation at DPE-8. System restarted remotely by Landmark after troubleshooting the system. To prevent system shutdown's during operation of DPE-8, Landmark modified the DPE system to allow DPE-7 to operate any time that DPE-8 is operating.
30-Mar-10	NA	NA	NA	On	Landmark on site to troubleshoot DPE-8.
8-Apr-10	NA	NA	NA	On	Landmark remote troubleshooting of DPE-8. Operated DPE-8 without DPE-7.
	11:35	Y	DPE Pump High Inlet Vacuum	On/Off/On	Landmark modified the DPE system to allow DPE-7 to operate any time that DPE-8 is operating.
12-Apr-10	12:36	Y	DPE Pump High Inlet Vacuum	On/Off/On	Landmark tested DPE-8 remotely to see if it could operate on its own. Landmark modified the DPE system to allow DPE-7 to operate any time that DPE-8 is operating.

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-Apr-10	NA	NA	NA	On/Off/On	Landmark on site to conduct monthly monitoring and sampling event , replaced the check valve on the DPE-8 wellhead, and clean the air stripper by adding 1 gallon of hydrochloric acid.
17-Apr-10	23:20	Y	DPE Pump High Inlet Vacuum	On/Off/On	Landmark tested DPE-8 remotely to see if it could operate on its own. The system shut down; therefore, Landmark modified the DPE system to allow DPE-7 to operate any time that DPE-8 is operating.
4-May-10	NA	NA	NA	On/Off/On	Landmark tested DPE-8 remotely to see if it could operate on its own. The system shut down; therefore, Landmark modified the DPE system to allow DPE-7 to operate any time that DPE-8 is operating.
5-May-10	11:27	Y	DPE Pump High Inlet Vacuum	On/Off/On	The system shut down from DPE-8 operation; therefore, Landmark modified the DPE system to allow DPE-7 to operate any time that DPE-8 is operating.
13-May-10	NA	NA	NA	On	Landmark on site to conduct monthly monitoring and sampling event, quarterly groundwater sampling event , cleaned the air stripper by adding 1/2 gallon of hydrochloric acid. Plastic debris was found on the inlet side of the piping leaving the wellhead for DPE-8. Plastic piece was removed and the system shutdowns resulting from DPE-8 operation were resolved.
17-Jun-10	NA	NA	NA	On	Landmark on site to conduct monthly monitoring and sampling event , cleaned the air stripper by adding 1/2 gallon of hydrochloric acid.
29-Jun-10	6:04	Y	DPE Pump High Inlet Vacuum	On/Off/On	The system shut down after switching to DPE-1 operation. Landmark restarted the system remotely.
30-Jun-10	12:07	Y	DPE Pump High Inlet Vacuum	On/Off/On	The system shut down after switching to DPE-1 operation. Landmark restarted the system remotely and temporarily changed the DPE pump high inlet vacuum alarm to 24.5 inches Hg.
1-Jul-10	0:12	Y	DPE Pump High Inlet Vacuum	On/Off/On	The system shut down after switching to DPE-1 operation. Landmark restarted the system remotely and modified the system to operate DPE-1 and DPE-8 at the same time until the Landmark is on site for routine monitoring and can troubleshoot DPE-1. The DPE pump high inlet vacuum alarm was reset to 24 inches Hg.
8-Jul-10	0:27	Y	DPE Pump High Inlet Vacuum	On/Off/On	The system shut down after DPE-1 and DPE-8 operation switched to DPE-1 operation. Landmark restarted the system remotely and modified the system to operate DPE-1 and DPE-8 at the same time during 30 minutes of the DPE-1 cycle.
9-Jul-10	0:37	Y	DPE Pump High Inlet Vacuum	On/Off/On	The system shut down after DPE-1 and DPE-8 operation switched to DPE-1 operation. Landmark restarted the system remotely and modified the system to operate DPE-1 and DPE-8 at the same time during the entire DPE-1 cycle.

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
26-Jul-10	NA	NA	NA	On	Landmark on site to conduct monthly monitoring and sampling event , cleaned the air stripper by adding 1/2 gallon of hydrochloric acid. DPE-1 troubleshooting by pulling piping out of DPE-1 for cleaning and inspection. Sediments may have been clogging screen. Also noticed sanitary well seal was broken and missing rubber pieces. Fluid levels were not collected due to instrument malfunction. Air sampling flow controller malfunctioned and only operated for 3 hours. Therefore, a 3 hour composite air sample was collected.

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
29-Jul-10	7:05	Y	DPE Pump Low Inlet Vacuum	On/Off/On	System shut down was actually due to a power outage in the building. This power outage may have also increased the elevator pit drain tile sump totalizer reading from 330 to 340 gallons. Paramark restarted the DPE system.
18-Aug-10	NA	NA	NA	On/Off	Landmark on site to conduct monthly monitoring and sampling event and quarterly groundwater monitoring event . Oil was observed to be leaking from the DPE pump; therefore, the pump was turned off immediately for inspection and troubleshooting by Landmark. Monthly DPE system monitoring and sampling was not completed . The transfer pump stator was replaced.
20-Aug-10	NA	NA	NA	Off	Landmark and John Henry Foster on site to troubleshoot DPE pump oil leak. The pump could not be fixed on site, so it was shipped back to John Henry Foster's shop for further inspection and repair.
27-Sep-10	NA	NA	NA	Off/On	Landmark and John Henry Foster on site to reinstall DPE pump. Landmark conducted monthly monitoring and sampling event . Air sampling flow controller malfunctioned and only operated for 30 minutes. Therefore, a 30 minute composite air sample was collected.
18-Oct-10	NA	NA	NA	On	Landmark conducted monthly monitoring and sampling event . Replaced MS#1 and MS#2 filters and cleaned air stripper by adding 1 gallon of hydrochloric acid.
16-Nov-10	11:20	NA	NA	On/Off	DPE system shut down due to a DPE pump oil leak discovered by Paramark.
18-Nov-10	NA	NA	NA	Off	Landmark and John Henry Foster on site to troubleshoot DPE pump oil leak. The pump could not be fixed on site, so it was shipped back to John Henry Foster's shop for further inspection and repair.
	NA	NA	NA	Off	Landmark onsite to conduct quarterly groundwater monitoring event for non-DPE wells .
22-Dec-10	NA	NA	NA	Off/On	Landmark and John Henry Foster on site to reinstall DPE pump. Landmark conducted monthly monitoring and sampling event . New oil in pump from repairs. Solenoid rebuild kits required for DPE-1, 2, and 8.
23-Dec-10	NA	NA	NA	Off	Landmark onsite to conduct quarterly groundwater monitoring event for DPE wells . Replaced 4" flex hose to air stripper.
6-Jan-11	NA	NA	NA	On	Landmark on site to install solenoid rebuild kits for DPE-1, 2, and 8.
	15:45	Y	DPE Pump High Inlet Vacuum	On/Off/On	DPE system turned off when operating on DPE-6. Landmark restarted system remotely. DPE-6 was left off until the coil to the solenoid valve could be replaced.
20-Jan-11	NA	NA	NA	On	Landmark onsite to conduct monthly system monitoring and sampling event , and troubleshoot DPE-2, DPE-4, and DPE-6 which appear to be stuck open. Hunt Electric on site to trouble shoot solenoid valves. They had to reset a breaker in the DPE system control panel and fixed DPE-2 and DPE-4. DPE-6 appears to have a faulty coil.
16-Feb-11	NA	NA	NA	On	Paramark contacted Landmark about a leak from the line from DPE-8 in the boiler room. Leak appears to be from pressure gauge.
	12:49	Y	DPE Pump Low Inlet Vacuum	On/Off	
	13:49	NA	NA	Off/On	Landmark restarted the DPE system remotely. DPE-8 taken offline.

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
28-Feb-11	NA	NA	NA	On	Landmark onsite to conduct monthly system monitoring and sampling event and quarterly groundwater sampling event , change oil in the DPE pump (10,989 hrs), replaced hose from air stripper blower to the tank, fixed DPE-8 leak, put DPE-8 back on line, and installed solenoid valve rebuild kits at DPE-3, 5, and 7.
2-Mar-11	13:28	Y	MS High Level	On/Off	
7-Mar-11	NA	NA	NA	Off/On	Landmark onsite to replace the coil to DPE-6, clean the moisture separator, clean the moisture separator floats, and put DPE-8 back online.
18-Mar-11	13:30	NA	NA	On/Off	Landmark onsite to repair DPE-8 (possible bonnet gasket pinched), clean the moisture separator floats, replaced transfer pump stator, and troubleshoot constant transfer pump operation. DPE system left off after it was determined that the floats were not operational.
23-Mar-11	9:00	NA	NA	Off/On	Landmark onsite to conduct monthly monitoring and sampling event . Landmark also replaced MS-1 tri-level floats, and changed oil at 11,276 hours.
22-Apr-11	9:10	NA	NA	On	Landmark Onsite to conduct monthly monitoring and sampling event . Landmark also changed oil at 11,995 hours.
3-May-11	21:00	NA	NA	On	Landmark on site to troubleshoot and clean the discharge flow meter.
5-May-11	NA	NA	NA	On	Landmark on site to troubleshoot leaking solenoid valve. DPE-4 solenoid valve repaired.
19-May-11	6:00	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event . Landmark also changed oil at 12,645 hours.
16-Jun-11	12:00	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event . Landmark also changed oil at 13,314 hours and installed new vacuum gauge in DPE 4 manifold.
18-Jul-11	15:37	Y	Lo Inlet Vacuum	On/Off/On	Contacted Paramark and the shutdown was due to a building power outage. Paramark restarted the system after the power returned.
21-Jul-11	11:00	Y	Air Stripper High High Level	On/Off	
	14:16	NA	NA	Off/On	Paramark onsite and turned AS pump to the "hand" position until the water level in the air stripper was below the High Level switch. Paramark returned AS pump to auto position and restarted the DPE system.
22-Jul-11	2:26	Y	Air Stripper High High Level	On/Off	
	8:00	NA	NA	Off/On	Paramark onsite and turned AS pump to the "hand" position until the water level in the air stripper was below the High Level switch. Paramark returned AS pump to auto position and restarted the DPE system.
	9:06	Y	Air Stripper High High Level	On/Off	

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		DPE Well(s) Operating	DPE Pump Hours	Hours Per Period	Total Flow Rate (scfm)	Total VOCs			PCE		
Start Date	End Date					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 ³	8/15/2009 ¹	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 ²	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 ⁴	DPE-1	1899	471	31.6	494,779	27.60	1,152.21	396,000	22.09	994.12
10/16/2009 ⁵	---	All Wells	1899	231	48.9	608,840	25.78	1,177.99	571,000	24.18	1018.30
---	11/17/2009 ⁵	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 ⁵	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 ⁵	All Wells	3568	608	48.9	11,403,200	1270.88	2,469.45	8,550,000	952.89	1988.07
1/14/2010	2/22/2010 ⁶	All Wells	4161	593	69.4	2,364,821	364.82	2,834.27	1,720,000	265.34	2253.41
2/22/2010	3/25/2010 ⁷	All Wells	4868	707	69.4	331,284	60.93	2,895.20	215,000	39.54	2292.96
3/25/2010	4/16/2010	All Wells	5308	440	77.9	438,730	56.37	2,951.57	282,000	36.23	2329.19
4/16/2010	5/12/2010	All Wells	5908	600	86.9	50,553	9.88	2,961.45	27,900	5.45	2334.64
5/12/2010	6/17/2010	All Wells	6768	860	55.6	1,032,070	184.99	3,146.44	689,000	123.50	2458.14
6/17/2010	7/26/2010	All Wells	7671	903	75.6	493,213	126.21	3,272.65	489,000	125.14	2583.28
7/26/2010	9/27/2010 ⁸	All Wells	8222	551	86.8	256,450	45.98	3,318.63	245,150	43.95	2627.23
9/27/2010	10/18/2010	All Wells	8662	440	77.4	19,686	2.51	3,321.14	1,300	0.17	2627.39
10/18/2010	12/22/2010	All Wells	9378	716	94.1	46,334	11.70	3,332.84	2,680	0.68	2628.07
12/22/2010	1/20/2011	All Wells	10034	656	88.0	61,844	13.38	3,346.23	5,040	1.09	2629.16
1/20/2011	2/28/2011	All Wells	10969	935	83.1	21,690	6.32	3,352.55	4,590	1.34	2630.50
2/28/2011	3/23/2011	All Wells	11277	308	64.8	56,955	4.26	3,356.80	7,340	0.55	2631.05
3/23/2011	4/22/2011	All Wells	11995	718	65.8	29,665	5.25	3,362.05	6,840	1.21	2632.26
4/22/2011	5/19/2011	All Wells	12645	650	61.3	25,270	3.77	3,365.82	6,270	0.94	2633.19
5/19/2011	6/16/2011	All Wells	13314	669	56.4	8,991	1.27	3,367.10	668	0.09	2633.29

Notes:

- 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.
- 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.
- 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.
- The flow rate used for the 10/15/09 calculations was from operation at DPE-1.
- The flow rates used for the 10/16/09, 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.
- The flow rates used after 1/14/10 were averaged from the flow rates from each well during sequential operation of all DPE wells.
- There was a typo when entering the DPE pump hours; therefore, this value was revised while entering the data from 4/16/10.
- The 6-hr flow controller failed and only lasted 26 minutes during exhaust sample collection. Therefore, the concentrations used during this sampling event were averaged from the July 26 and October 18, 2010, sampling events.

TABLE 3

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

Sample ID	DPE EXHAUST 0727	DPE EXHAUST 0416	DPE EXHAUST 0514	DPE EXHAUST 1186	DPE EXHAUST 0798	DPE EXHAUST 1513
Wells Operating	All DPE Wells	All DPE Wells	All DPE Wells	All DPE Wells	All DPE Wells	All DPE Wells
Sample Collection Method	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite
Collected Date	6/16/2011	5/19/2011	4/22/2011	3/23/2011	2/28/2011	1/20/2011
1,1,1-Trichloroethane	<33.9	<280	<36.5	<39.6	<140	20.8
1,1,2,2-Tetrachloroethane	<21.5	<178	<46.5	<50.4	<88.8	<2.2
1,1,2-Trichloroethane	<16.9	<140	<36.5	<39.6	<70.0	<1.7
1,1,2-Trichlorotrifluoroethane	8,050	19,000	22,600	49,100	17,100	56,200
1,1-Dichloroethane	<25.3	<209	<27.2	<29.5	<104	<1.3
1,1-Dichloroethene	<24.9	<206	<26.9	<29.2	<103	<1.3
1,2,4-Trichlorobenzene	<30.5	<252	<32.9	<35.6	<126	<1.6
1,2,4-Trimethylbenzene	<30.8	<254	<33.2	<36.0	<127	3.3
1,2-Dibromoethane (EDB)	<49.3	<407	<53.1	<57.6	<204	<2.5
1,2-Dichlorobenzene	<37.0	<305	<39.8	<43.2	<153	<1.9
1,2-Dichloroethane	<12.6	<104	<27.2	<29.5	<52.2	<1.3
1,2-Dichloropropane	<29.0	<239	<31.2	<33.8	<120	<1.5
1,3,5-Trimethylbenzene	<30.8	<254	<33.2	<36.0	<127	<1.6
1,3-Butadiene	<13.9	<114	<14.9	<16.2	<57.2	<0.72
1,3-Dichlorobenzene	<37.0	<305	<39.8	<43.2	<153	<1.9
1,4-Dichlorobenzene	<37.0	<305	<39.8	<43.2	<153	<1.9
2-Butanone (MEK)	<18.5	<153	<19.9	<21.6	<76.3	41.4
2-Hexanone	<25.6	<211	<27.6	<29.9	<106	<1.3
2-Propanol	<77.0	<636	<83.0	<90.0	<318	21.9
4-Ethyltoluene	<77.0	<636	<83.0	<90.0	<318	<4.0
4-Methyl-2-pentanone (MIBK)	<25.6	<211	<27.6	<29.9	<106	8.3
Acetone	72.5	<122	88.4	25.4	<61.1	29.0
Benzene	<10.0	<82.7	<21.6	<23.4	<41.3	<1.0
Benzyl chloride	<32.3	<267	<34.9	<37.8	<134	<1.7
Bromodichloromethane	<43.1	<356	<46.5	<50.4	<178	<2.2
Bromoform	<64.7	<534	<69.7	<75.6	<267	<3.3
Bromomethane	<24.3	<201	<26.2	<28.4	<100	<1.3
Carbon disulfide	<19.4	<160	<20.9	<22.7	<80.1	<1.0
Carbon tetrachloride	<19.7	<163	<43.2	<46.8	<81.4	<2.1
Chlorobenzene	<29.0	<239	<31.2	<33.8	<120	<1.5
Chloroethane	<16.6	<137	<17.9	<19.4	<68.7	<0.86
Chloroform	<30.5	<252	<32.9	<35.6	<126	4.9
Chloromethane	<12.9	<107	<13.9	<15.1	<53.4	<0.67
cis-1,2-Dichloroethene	<24.9	<206	<26.9	<29.2	<103	36.3
cis-1,3-Dichloropropene	<28.3	<234	<30.5	<33.1	<117	<1.5
Cyclohexane	<20.9	<173	<22.6	<24.5	<86.5	<1.1
Dibromochloromethane	<52.4	<432	<56.4	<61.2	<216	<2.7
Dichlorodifluoromethane	<30.8	<254	<33.2	<36.0	<127	<1.6
Dichlorotetrafluoroethane	<43.1	<356	<46.5	<50.4	<178	<2.2
Ethanol	201	<483	137	139	<242	286
Ethyl acetate	<22.5	<186	<24.2	<26.3	<92.9	3.4
Ethylbenzene	<27.1	<224	<29.2	<31.7	<112	2.0
Hexachloro-1,3-butadiene	<67.8	<560	<73.0	<79.2	<280	<3.5
m&p-Xylene	<54.2	<448	<58.4	<63.4	<224	6.9
Methylene Chloride	<21.9	<181	<23.6	310	<90.3	101
Methyl-tert-butyl ether	<22.5	<186	<24.2	<26.3	<92.9	<1.2
Naphthalene	<83.2	<687	<89.6	<97.2	<343	<4.3
n-Heptane	<25.6	<211	<27.6	<29.9	<106	<1.3
n-Hexane	<22.2	<183	<23.9	40.9	<91.6	<1.1
o-Xylene	<27.1	<224	<29.2	<31.7	<112	5.8
Propylene	<10.8	<89.0	<11.6	<12.6	<44.5	<0.56
Styrene	<26.8	<221	<28.9	<31.3	<111	<1.4
Tetrachloroethene	668	6,270	6,840	7,340	4,590	5,040
Tetrahydrofuran	<18.5	<153	<19.9	<21.6	<76.3	6.3
Toluene	<23.7	<196	<25.6	<27.7	<97.9	12.3
trans-1,2-Dichloroethene	<24.9	<206	<26.9	<29.2	<103	<1.3
trans-1,3-Dichloropropene	<28.3	<234	<30.5	<33.1	<117	<1.5
Trichloroethene	<16.9	<140	<36.5	<39.6	<70.0	14.8
Trichlorofluoromethane	<33.9	<280	<36.5	<39.6	<140	<1.7
Vinyl acetate	<21.9	<181	<23.6	<25.6	<90.3	<1.1
Vinyl chloride	<8.0	<66.1	<17.3	<18.7	<33.1	<0.83
Total VOCs	8,991	25,270	29,665	56,955	21,690	61,844

1. Flow controller failed on 9/27/10; however, a 1/2 hour composite sample was still collected.

Bold: parameter detected above the reporting limit.

NA: Not Analyzed.

TABLE 3

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

Sample ID	DPE EXHAUST 0224	DPE EXHAUST 0965	DPE EXHAUST 0096	DPE EXHAUST 764	DPE EXHAUST 1248	DPE EXHAUST 764
Wells Operating	All DPE Wells	All DPE Wells	All DPE Wells	All DPE Wells	All DPE Wells	All DPE Wells
Sample Collection Method	6-hr Composite	6-hr Composite	1/2-hr Composite ¹	6-hr Composite	6-hr Composite	6-hr Composite
Collected Date	12/23/2010	10/18/2010	9/27/2010	7/26/2010	6/17/2010	5/12/2010
1,1,1-Trichloroethane	45.6	<146	<2.3	<79.2	<760	12.9
1,1,2,2-Tetrachloroethane	<46.5	<186	<3.0	<101	<968	<2.7
1,1,2-Trichloroethane	<36.5	<146	<2.3	<79.2	<760	<2.1
1,1,2-Trichlorotrifluoroethane	42,700	16,300	9.2	3,720	342,000	21,900
1,1-Dichloroethane	<27.2	<109	<1.7	<59.0	<567	<1.6
1,1-Dichloroethene	<26.9	<108	<1.7	<58.3	<560	<1.6
1,2,4-Trichlorobenzene	<32.9	<131	<2.1	<71.3	<684	<1.9
1,2,4-Trimethylbenzene	<33.2	153	<5.3	<180	<1730	<4.8
1,2-Dibromoethane (EDB)	<53.1	<212	<3.4	<115	<1110	<3.1
1,2-Dichlorobenzene	<39.8	<159	<2.6	<86.4	<829	5.5
1,2-Dichloroethane	<27.2	<109	<1.7	<59.0	<567	<1.6
1,2-Dichloropropane	<31.2	<125	<2.0	<67.7	<650	2.5
1,3,5-Trimethylbenzene	<33.2	<133	<5.3	<180	<1730	<4.8
1,3-Butadiene	<14.9	<59.8	<0.96	<32.4	<311	<0.87
1,3-Dichlorobenzene	<39.8	<159	<2.6	<86.4	<829	<2.3
1,4-Dichlorobenzene	<39.8	<159	<2.6	<86.4	<829	3.7
2-Butanone (MEK)	26.9	1,120	12.1	<43.2	<415	18.0
2-Hexanone	<27.6	<110	<1.8	<59.8	<574	<1.6
2-Propanol	<83.0	484	9.6	<180	<1730	7.9
4-Ethyltoluene	<83.0	<332	<5.3	<180	<1730	<4.8
4-Methyl-2-pentanone (MIBK)	<27.6	<110	<1.8	<59.8	<574	<1.6
Acetone	78.0	227	53.9	74.8	<332	509
Benzene	<21.6	<86.3	<1.4	<46.8	<449	<1.3
Benzyl chloride	<34.9	<139	<2.2	<1210	<726	<2.0
Bromodichloromethane	<46.5	<186	<3.0	<101	<968	<2.7
Bromoform	<69.7	<279	<4.5	<151	<1450	<4.1
Bromomethane	<26.2	<105	<1.7	<56.9	<546	<1.5
Carbon disulfide	<20.9	<83.7	<1.3	<45.4	<435	7.7
Carbon tetrachloride	<43.2	<173	<2.8	<93.6	<899	<2.5
Chlorobenzene	<31.2	<125	<2.0	<67.7	<650	3.1
Chloroethane	<17.9	<71.7	<1.2	<38.9	<373	<1.0
Chloroform	<32.9	<131	<2.1	<71.3	<684	4.9
Chloromethane	<13.9	<55.8	1.2	<30.2	<290	9.6
cis-1,2-Dichloroethene	77.3	<108	<1.7	272	1,070	33.6
cis-1,3-Dichloropropene	<30.5	<122	<2.0	<66.2	<636	<1.8
Cyclohexane	<22.6	<90.3	<1.4	<49.0	<470	3.7
Dibromochloromethane	<56.4	<226	<3.6	<122	<1180	<3.3
Dichlorodifluoromethane	<33.2	<133	2.6	<72.0	<691	4.1
Dichlorotetrafluoroethane	<46.5	<186	<3.0	<101	<968	<2.7
Ethanol	726	<252	48.3	<2190	<1310	67.3
Ethyl acetate	<24.2	<96.9	<1.6	<52.6	<505	<1.4
Ethylbenzene	<29.2	<117	<1.9	<63.4	<608	<1.7
Hexachloro-1,3-butadiene	<73.0	<292	<4.7	<158	<1520	<4.2
m&p-Xylene	<58.4	<234	<3.7	<127	<1220	5.1
Methylene Chloride	<23.6	<94.3	294	<51.1	<491	<1.4
Methyl-tert-butyl ether	<24.2	<96.9	<1.6	<52.6	<505	<1.4
Naphthalene	<89.6	<359	<5.8	<194	<1870	<5.2
n-Heptane	<27.6	<110	<1.8	<59.8	<574	2.0
n-Hexane	<23.9	<95.6	45.9	<51.8	<498	<1.4
o-Xylene	<29.2	<117	<1.9	<63.4	<608	1.8
Propylene	<11.6	<46.5	1.3	<25.2	<242	<0.68
Styrene	<28.9	<116	<1.9	<62.6	<601	<1.7
Tetrachloroethene	2,680	1,300	6.5	489,000	689,000	27,900
Tetrahydrofuran	<19.9	<79.7	<1.3	45.3	<415	15.0
Toluene	<25.6	102	21.2	<55.4	<532	8.0
trans-1,2-Dichloroethene	<26.9	<108	<1.7	<58.3	<560	<1.6
trans-1,3-Dichloropropene	<30.5	<122	<2.0	<66.2	<636	<1.8
Trichloroethene	<36.5	<146	42.3	101	<760	24.5
Trichlorofluoromethane	<36.5	<146	<2.3	<79.2	<760	<2.1
Vinyl acetate	<23.6	<94.3	<1.5	<51.1	<491	3.0
Vinyl chloride	<17.3	<69.1	<1.1	<37.4	<359	<1.0
Total VOCs	46,334	19,686	548	493,213	1,032,070	50,553

1. Flow controller failed on 9/27/10; however, a 1/2 hour composite sample was still collected.

Bold: parameter detected above the reporting limit.

NA: Not Analyzed.

TABLE 3

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

Sample ID	DPE EXHAUST 726	DPE EXHAUST 1316	DPE EXHAUST 1037	DPE OUTLET 1042	DPE-OUTLET 0903	DPE-OUTLET 1254
Wells Operating	All DPE Wells	All DPE Wells	All DPE Wells	All DPE Wells	All DPE Wells	All DPE Wells
Sample Collection Method	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite
Collected Date	4/16/2010	3/25/2010	2/22/2010	1/14/2010	12/17/2009	11/17/2009
1,1,1-Trichloroethane	ND	30.7	61	ND	23.9	ND
1,1,2,2-Tetrachloroethane	ND	<2.5	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	<2.0	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	153,000	115,000	644,000	2,720,000	4,440	72,100
1,1-Dichloroethane	ND	<1.5	ND	ND	ND	ND
1,1-Dichloroethene	ND	3.0	7.66	ND	ND	ND
1,2,4-Trichlorobenzene	ND	<1.8	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	12.8	ND	ND	ND	ND
1,2-Dibromoethane (EDB)	ND	<2.9	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	<2.2	ND	ND	ND	ND
1,2-Dichloroethane	ND	<1.5	ND	ND	ND	ND
1,2-Dichloropropane	ND	<1.7	7.05	ND	ND	ND
1,3,5-Trimethylbenzene	ND	<4.5	ND	ND	ND	ND
1,3-Butadiene	ND	<0.81	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	<2.2	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	<2.2	ND	ND	ND	ND
2-Butanone (MEK)	ND	44.2	12.9	ND	ND	ND
2-Hexanone	ND	<1.5	ND	ND	ND	ND
2-Propanol	ND	19.0	NA	NA	NA	NA
4-Ethyltoluene	ND	<4.5	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	ND	<1.5	ND	ND	ND	ND
Acetone	ND	163	84.5	76,800	126	116
Benzene	ND	<1.2	ND	ND	16.2	ND
Benzyl chloride	ND	<1.9	NA	NA	NA	NA
Bromodichloromethane	ND	<2.5	ND	ND	ND	ND
Bromoform	ND	<3.8	ND	ND	ND	ND
Bromomethane	ND	<1.4	ND	ND	ND	ND
Carbon disulfide	ND	1.3	ND	ND	ND	ND
Carbon tetrachloride	ND	<2.3	ND	ND	ND	ND
Chlorobenzene	ND	<1.7	ND	ND	ND	ND
Chloroethane	ND	<0.97	ND	ND	ND	ND
Chloroform	ND	11.3	15.4	ND	ND	ND
Chloromethane	ND	<0.76	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	80.2	198	ND	47.2	118
cis-1,3-Dichloropropene	ND	<1.7	ND	ND	ND	ND
Cyclohexane	ND	2.2	14.3	ND	766	ND
Dibromochloromethane	ND	<3.1	ND	ND	ND	ND
Dichlorodifluoromethane	ND	11.0	ND	ND	ND	ND
Dichlorotetrafluoroethane	ND	<2.5	ND	ND	ND	ND
Ethanol	ND	26.1	NA	NA	NA	NA
Ethyl acetate	ND	<1.3	ND	ND	ND	ND
Ethylbenzene	ND	118	ND	ND	ND	ND
Hexachloro-1,3-butadiene	ND	<4.0	ND	ND	ND	ND
m&p-Xylene	ND	456	ND	ND	ND	ND
Methylene Chloride	ND	<1.3	ND	ND	270	ND
Methyl-tert-butyl ether	ND	<1.3	ND	ND	ND	ND
Naphthalene	ND	<4.9	NA	NA	NA	NA
n-Heptane	ND	2.7	ND	ND	ND	ND
n-Hexane	ND	4.7	135	ND	ND	ND
o-Xylene	ND	159	ND	ND	ND	ND
Propylene	ND	<0.63	ND	ND	ND	ND
Styrene	ND	<1.6	ND	ND	ND	ND
Tetrachloroethene	282,000	215,000	1,720,000	8,550,000	6,790	381,000
Tetrahydrofuran	ND	58.0	45.6	56,400	ND	145
Toluene	ND	28.4	124	ND	9.58	ND
trans-1,2-Dichloroethene	ND	<1.5	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	<1.7	ND	ND	ND	ND
Trichloroethene	3,730	43.7	116	ND	21.3	ND
Trichlorofluoromethane	ND	<2.0	ND	ND	ND	ND
Vinyl acetate	ND	8.9	ND	ND	ND	ND
Vinyl chloride	ND	<0.94	ND	ND	ND	ND
Total VOCs	438,730	331,284	2,364,821	11,403,200	12,510	453,479

1. Flow controller failed on 9/27/10; however, a 1/2 hour composite sample was still collected.

Bold: parameter detected above the reporting limit.

NA: Not Analyzed.

TABLE 3

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

Sample ID	DPE-EFFLUENT 519	DPE-EFFLUENT 253	DPE - EFFLUENT 0680	DPE EXHAUST 842
Wells Operating	All DPE Wells	DPE-1	DPE-1	DPE-1
Sample Collection Method	6-hr Composite	Grab	Grab	Grab
Collected Date	10/16/2009	10/15/2009	9/4/2009	4/9/2009
1,1,1-Trichloroethane	81.7	4.2	127	4,450
1,1,2,2-Tetrachloroethane	<2.2	<2.1	<2.1	<2480
1,1,2-Trichloroethane	<1.7	<1.6	<1.6	<1950
1,1,2-Trichlorotrifluoroethane	172	97,900	153,000	2,940,000
1,1-Dichloroethane	<1.3	<1.2	<1.2	<1450
1,1-Dichloroethene	13.9	<1.2	15.0	<1440
1,2,4-Trichlorobenzene	<1.5	<1.5	<1.5	<1760
1,2,4-Trimethylbenzene	<3.8	<3.7	10.2	<4440
1,2-Dibromoethane (EDB)	<2.5	<2.4	<2.4	<2840
1,2-Dichlorobenzene	<1.8	<1.8	<1.8	<2130
1,2-Dichloroethane	<1.3	<1.2	<1.2	<1450
1,2-Dichloropropane	<1.4	<1.4	<1.4	<1670
1,3,5-Trimethylbenzene	<3.8	<3.7	5.0	<4440
1,3-Butadiene	<0.69	<0.67	<0.67	<798
1,3-Dichlorobenzene	<1.8	<1.8	6.0	<2130
1,4-Dichlorobenzene	<1.8	<1.8	8.6	<2130
2-Butanone (MEK)	12.2	<0.89	15.8	<1060
2-Hexanone	<1.3	<1.2	<1.2	<1470
2-Propanol	4.9	<3.7	<3.7	<4440
4-Ethyltoluene	<3.8	<3.7	6.0	<4440
4-Methyl-2-pentanone (MIBK)	<1.3	<1.2	<1.2	<1470
Acetone	37,000	501	7,510	<852
Benzene	1.1	1.5	2.3	<1150
Benzyl chloride	NA	NA	NA	NA
Bromodichloromethane	<2.2	<2.1	<2.1	<2480
Bromoform	<3.2	<3.1	<3.1	<3730
Bromomethane	<1.2	<1.2	<1.2	<1400
Carbon disulfide	<0.97	<0.93	5.9	<1120
Carbon tetrachloride	<2.0	<1.9	<1.9	<2310
Chlorobenzene	<1.4	<1.4	<1.4	<1670
Chloroethane	<0.83	<0.80	<0.80	<958
Chloroform	25.8	<1.5	21.5	<1760
Chloromethane	<0.65	<0.62	<0.62	<745
cis-1,2-Dichloroethene	257	21.5	2,620	36,300
cis-1,3-Dichloropropene	<1.4	<1.4	<1.4	<1630
Cyclohexane	<1.0	<1.0	3.5	<1210
Dibromochloromethane	<2.6	<2.5	<2.5	<3020
Dichlorodifluoromethane	<1.5	2.8	<1.5	2,230
Dichlorotetrafluoroethane	<2.2	<2.1	<2.1	3,400
Ethanol	8.9	8.4	5.7	<3370
Ethyl acetate	<1.1	<1.1	<1.1	<1300
Ethylbenzene	7.9	<1.3	<1.3	<1560
Hexachloro-1,3-butadiene	<3.4	<3.3	<3.3	<3900
m&p-Xylene	25.0	2.6	14.2	<3120
Methylene Chloride	<1.1	276	<1.1	<1260
Methyl-tert-butyl ether	<1.1	<1.1	<1.1	<1300
Naphthalene	5.6	<4.0	4.2	10,100
n-Heptane	<1.3	<1.2	2.6	<1470
n-Hexane	2.1	35.4	3.4	<1280
o-Xylene	7.5	<1.3	4.8	<1560
Propylene	<0.54	<0.52	<0.52	<621
Styrene	<1.3	<1.3	<1.3	<1540
Tetrachloroethene	571,000	396,000	3,630,000	11,600,000
Tetrahydrofuran	36.2	<0.89	31.1	<1060
Toluene	17.6	10.3	14.4	<1370
trans-1,2-Dichloroethene	<1.2	<1.2	4.2	<1440
trans-1,3-Dichloropropene	<1.4	<1.4	<1.4	<1630
Trichloroethene	153	13.6	1,640	17,400
Trichlorofluoromethane	<1.7	1.7	2.2	<1950
Vinyl acetate	7.4	<1.1	8.7	<1260
Vinyl chloride	<0.80	<0.77	<0.77	<923
Total VOCs	608,840	494,779	3,795,077	14,603,780

1. Flow controller failed on 9/27/10; however, a 1/2 hour composite sample was still collected.

Bold: parameter detected above the reporting limit.

NA: Not Analyzed.

TABLE 4

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

Date	DPE Wells Operating	Parameter	Conc. (ug/m ³)	RRASS Emissions Summary						PR Program Emissions Summary					
				DPE (ug per sec)	AS (ug per sec)	Site Specific (ug per sec)	Excess Lifetime Cancer Risk (guideline value = 1E-05)	SER for Chronic Risk (ug per sec)	SER for Acute Risk (ug per sec)	DPE (ug per sec)	AS (ug per sec)	Site Specific (ug per sec)	Acute Hazard Quotient	Chronic Hazard Quotient	Excess Lifetime Cancer Risk (guideline value = 1E-05)
9/4/2009	DPE-1	PCE	3,630,000	61,710	70	61,780	NA	16,300	5,980,000	NA	NA	NA	NA	NA	NA
10/15/2009	DPE-1	PCE	396,000	5,940	5.6	5,946	NA	16,300	5,980,000	NA	NA	NA	NA	NA	NA
10/16/2009	All Wells	PCE	571,000	8,565	5.6	8,571	NA	16,300	5,980,000	NA	NA	NA	NA	NA	NA
11/17/2009	All Wells	PCE	381,000	4,953	0.5	4,953	NA	16,300	5,980,000	NA	NA	NA	NA	NA	NA
12/17/2009	All Wells	PCE	6,790	197	0.5	197	NA	16,300	5,980,000	NA	NA	NA	NA	NA	NA
1/14/2010	All Wells	PCE	8,550,000	393,300	3.9	393,304	NA	16,300	5,980,000	NA	NA	NA	NA	NA	NA
2/22/2010	All Wells	PCE	1,720,000	82,560	1.3	82,561	NA	16,300	5,980,000	NA	NA	NA	NA	NA	NA
3/25/2010	All Wells	PCE	215,000	11,180	2.1	11,182	NA	16,300	5,980,000	NA	NA	NA	NA	NA	NA
4/16/2010	All Wells	PCE	282,000	9,588	1.3	9,589	NA	16,300	5,980,000	NA	NA	NA	NA	NA	NA
5/12/2010	All Wells	PCE	27,900	1,729	0.8	1,730	NA	16,300	5,980,000	NA	NA	NA	NA	NA	NA
6/17/2010	All Wells	PCE	689,000	11,713	3.9	11,717	NA	16,300	5,980,000	NA	NA	NA	NA	NA	NA
7/26/2010	All Wells	PCE	489,000	22,983	1.2	22,984	NA	16,300	5,980,000	NA	NA	NA	NA	NA	NA
10/18/2010	All Wells	PCE	1,300	79	6.5	86	NA	16,300	5,980,000	NA	NA	NA	NA	NA	NA
12/23/2010	All Wells	PCE	2,680	64	3.2	68	NA	16,300	5,980,000	NA	NA	NA	NA	NA	NA
1/20/2011	All Wells	PCE	5,040	282	3.5	286	NA	16,300	5,980,000	NA	NA	NA	NA	NA	NA
2/28/2011	All Wells	PCE	4,590	225	4.1	229	NA	16,300	5,980,000	NA	NA	NA	NA	NA	NA
3/23/2011	All Wells	PCE	7,340	250	0.18	250	NA	16,300	5,980,000	NA	NA	NA	NA	NA	NA
4/22/2011	All Wells	PCE	6,840	233	5.53	239	1.5E-07	16,300	5,980,000	235	5	240	0	0	1.9E-07
5/19/2011	All Wells	PCE	6,270	125	0.67	126	7.8E-08	16,300	5,980,000	121	1	122	0	0	9.8E-08
6/16/2011	All Wells	PCE	668	14	0.40	14	8.9E-09	16,300	5,980,000	14	0	14	0	0	1.2E-08

Notes:

SERs: MPCA Screening Emissions Rates

61,780 Emissions rate is above MPCA SER

NA: Not Applicable

Table 5

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

Monitoring Period		Days per Period	Hours per Period	Flow Meter Reading (gallons)	Gallons Treated During Period	Average Flow Rate (gpm)	Average Flow Rate (liter/sec)	Total VOCs		% Reduction	Mass Removed per Period (lbs)	Cumulative Mass Removed (lbs)	Addition to Emission Rate (lbs/day)
Start Date ¹	End Date							Influent Conc. (ug/L)	Effluent Conc. (ug/L)				
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
1/14/2010	2/22/2010	39	936	122,167	16,143	0.3	0.018	73	16	78	0.01	0.27	0.000
2/22/2010	3/25/2010 ^{5,6}	31	744	148,206	26,039	0.6	0.037	507	764	-51	-0.06	0.27	-0.002
3/25/2010 ^{5,6}	4/16/2010 ⁵	22	528	161,857	13,651	0.4	0.027	61	525	-765	-0.05	0.27	-0.002
4/16/2010	5/12/2010	26	624	170,079	8,222	0.2	0.014	66	0	100	0.005	0.28	0.000
5/12/2010	6/17/2010	36	864	200,398	30,319	0.6	0.037	119	24	80	0.024	0.30	0.001
6/17/2010	7/26/2010	39	936	226,504	26,106	0.5	0.029	41	0	100	0.009	0.31	0.000
7/26/2010	9/27/2010	63	1512	240,247	13,743	0.2	0.010	84	18	79	0.008	0.32	0.000
9/27/2010	10/18/2010	21	504	255,417	15,170	0.5	0.032	210	6	97	0.026	0.34	0.001
10/18/2010	12/22/2010	65	1560	283,957	28,540	0.3	0.019	173	11	94	0.038	0.38	0.001
12/22/2010	1/20/2011	29	696	328,912	44,955	1.1	0.068	52	0	100	0.019	0.40	0.001
1/20/2011	3/1/2011	40	960	357,774	28,862	0.5	0.032	131	0	100	0.031	0.43	0.001
3/1/2011	3/23/2011	22	528	369,603	11,829	0.4	0.024	43	7	84	0.004	0.43	0.000
3/23/2011	4/22/2011	30	720	461,499	91,896	2.1	0.134	41	0	100	0.032	0.47	0.001
4/22/2011	5/19/2011	27	648	480,836	19,337	0.5	0.031	22	0	100	0.004	0.47	0.000
5/19/2011	6/16/2011	28	672	487,852	7,016	0.2	0.011	43	0	100	0.003	0.47	0.000

Notes:

- The initial reading of the transfer pump totalizer was 68 gallons.
- Initial sampling event to determine if groundwater treatment was necessary.
- Increase in total VOCs was from PVC glue and cement that was used during the construction of the DPE system and air stripper.
- 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.
- Increase in total VOCs was from PVC glue and cement that was used during installation of the secondary demister moisture separator.
- Flow totalizer reading switched from the analog flow meter reading to the field totalizer reading for better accuracy.
- Discharge flow meter malfunction caused invalid field totalizer reading; therefore, analog flow totalizer was used starting on 4/22/11.

TABLE 6

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

Sample ID	AS-Influent	AS-IN Vial 2	AS-Effluent	AS-INFLUENT	AS-EFFLUENT	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent
Collected Date	12/17/2009	12/17/2009	12/17/2009	11/16/2009	11/16/2009	10/15/2009	10/15/2009	9/4/2009	9/4/2009
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,1,2-Trichlorotrifluoroethane	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	<1.0	1.2	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2-Dibromoethane (EDB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	<1.0	<1.0	<1.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0
2-Butanone (MEK)	<4.0	<4.0	<4.0	<4.0	<4.0	5.4	<4.0	13.5	19.8
2-Chloroethylvinyl ether	<25.0	<25.0	<25.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Hexanone	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Methylnaphthalene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Acrolein	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
Acrylonitrile	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Allyl chloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromoform	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Bromomethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Carbon disulfide	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	<1.0	<1.0	<1.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0
Chlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	<1.0	<1.0	1.3	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0
Chloroprene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	1.5	<1.0
cis-1,3-Dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorofluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diethyl ether (Ethyl ether)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Iodomethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Isopropylbenzene (Cumene)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Methyl-tert-butyl ether	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
n-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	<1.0	<1.0	22.7	30.7	<1.0	214	<1.0	175	<1.0
Tetrahydrofuran	11.7	11.5	<10.0	<10.0	<10.0	15.7	<10.0	<10.0	<10.0
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Vinyl acetate	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Vinyl chloride	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Xylene (Total)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Total VOC Concentration	11.7	11.5	24	30.7	0	238	0	191.2	19.8

Bold : Parameter detected above the reporting limit.

Bold : Total VOC Concentration is 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 from construction of the DPE system and air stripper.

³: Increase in VOCs was from PVC glue and cement from installation of the secondary demister moisture separator.

TABLE 6

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

Sample ID	AS- INFLUENT	AS- EFFLUENT	AS INFLUENT	AS EFFLUENT ²	DPE Discharge ¹
Collected Date	7/9/2009	7/9/2009	6/4/2009	6/4/2009	4/9/2009
1,1,1,2-Tetrachloroethane	<5.0	<1.0	<50.0	<1.0	<5.0
1,1,1-Trichloroethane	<5.0	<1.0	<50.0	<1.0	29.4
1,1,2,2-Tetrachloroethane	<5.0	<1.0	<50.0	<1.0	<5.0
1,1,2-Trichloroethane	<20.0	<4.0	<200	<4.0	<20.0
1,1,2-Trichlorotrifluoroethane	10.4	<1.0	53.7	<1.0	7860
1,1-Dichloroethane	<5.0	<1.0	<50.0	<1.0	<5.0
1,1-Dichloroethene	<5.0	<1.0	<50.0	<1.0	<5.0
1,1-Dichloropropene	<5.0	<1.0	<50.0	<1.0	<5.0
1,2,3-Trichlorobenzene	<5.0	<1.0	<50.0	<1.0	<5.0
1,2,3-Trichloropropane	<5.0	<1.0	<50.0	<1.0	<5.0
1,2,4-Trichlorobenzene	<5.0	<1.0	<50.0	<1.0	<5.0
1,2,4-Trimethylbenzene	<5.0	<1.0	<50.0	<1.0	26.0
1,2-Dibromo-3-chloropropane	<20.0	<4.0	<200	<4.0	<20.0
1,2-Dibromoethane (EDB)	<5.0	<1.0	<50.0	<1.0	<5.0
1,2-Dichlorobenzene	<5.0	<1.0	<50.0	<1.0	<5.0
1,2-Dichloroethane	<5.0	<1.0	<50.0	<1.0	<5.0
1,2-Dichloropropane	<5.0	<1.0	<50.0	<1.0	<5.0
1,3,5-Trimethylbenzene	<5.0	<1.0	<50.0	<1.0	7.1
1,3-Dichlorobenzene	<5.0	<1.0	<50.0	<1.0	<5.0
1,3-Dichloropropane	<5.0	<1.0	<50.0	<1.0	<5.0
1,4-Dichlorobenzene	<5.0	<1.0	<50.0	<1.0	7.8
2,2-Dichloropropane	<5.0	<1.0	<50.0	<1.0	<5.0
2-Butanone (MEK)	<20.0	82.1	<200	1670	392
2-Chloroethylvinyl ether	<50.0	<10.0	<1250	<25.0	<50.0
2-Chlorotoluene	<5.0	<1.0	<50.0	<1.0	51.0
2-Hexanone	<20.0	<4.0	<200	<4.0	<20.0
2-Methylnaphthalene	<25.0	<5.0	<250	<5.0	<25.0
4-Chlorotoluene	<5.0	<1.0	<50.0	<1.0	<5.0
4-Methyl-2-pentanone (MIBK)	<25.0	<5.0	<250	<5.0	<25.0
Acetone	<50.0	68.7	<500	987	<50.0
Acrolein	<200	<40.0	<2000	<40.0	<200
Acrylonitrile	<50.0	<10.0	<500	<10.0	<50.0
Allyl chloride	<20.0	<4.0	<200	<4.0	<20.0
Benzene	<5.0	<1.0	<50.0	<1.0	<5.0
Bromobenzene	<5.0	<1.0	<50.0	<1.0	<5.0
Bromochloromethane	<5.0	<1.0	<50.0	<1.0	<5.0
Bromodichloromethane	<20.0	<4.0	<200	<4.0	<20.0
Bromoform	<40.0	<8.0	<400	<8.0	<40.0
Bromomethane	<20.0	<4.0	<200	<4.0	<20.0
Carbon disulfide	<5.0	<1.0	<50.0	<1.0	<5.0
Carbon tetrachloride	<5.0	<1.0	<50.0	<1.0	<5.0
Chlorobenzene	<5.0	<1.0	<50.0	<1.0	<5.0
Chloroethane	<5.0	<1.0	<50.0	<1.0	<5.0
Chloroform	<5.0	<1.0	<50.0	<1.0	<5.0
Chloromethane	63.3	76.4	<50.0	<1.0	<5.0
Chloroprene	<5.0	<1.0	<50.0	<1.0	<5.0
cis-1,2-Dichloroethene	13.0	<1.0	62.9	<1.0	206
cis-1,3-Dichloropropene	<20.0	<4.0	<200	<4.0	<20.0
Dibromochloromethane	<5.0	<1.0	<50.0	<1.0	<5.0
Dibromomethane	<5.0	<1.0	<50.0	<1.0	<5.0
Dichlorodifluoromethane	<5.0	<1.0	<50.0	<1.0	<5.0
Dichlorofluoromethane	<5.0	<1.0	<50.0	<1.0	<5.0
Diethyl ether (Ethyl ether)	<20.0	<4.0	<200	<4.0	<20.0
Ethylbenzene	<5.0	<1.0	<50.0	<1.0	<5.0
Hexachloro-1,3-butadiene	<20.0	<4.0	<200	<4.0	<20.0
Iodomethane	<20.0	<4.0	<200	<4.0	<20.0
Isopropylbenzene (Cumene)	<5.0	<1.0	<50.0	<1.0	<5.0
m&p-Xylene	<10.0	<2.0	<100	<2.0	<10.0
Methylene Chloride	<20.0	<4.0	<200	<4.0	<20.0
Methyl-tert-butyl ether	<5.0	<1.0	<50.0	<1.0	<5.0
Naphthalene	<20.0	<4.0	<200	<4.0	<20.0
n-Butylbenzene	<5.0	<1.0	<50.0	<1.0	5.0
n-Propylbenzene	<5.0	<1.0	<50.0	<1.0	<5.0
o-Xylene	<5.0	<1.0	<50.0	<1.0	<5.0
p-Isopropyltoluene	<5.0	<1.0	<50.0	<1.0	<5.0
sec-Butylbenzene	<5.0	<1.0	<50.0	<1.0	<5.0
Styrene	<5.0	<1.0	<50.0	<1.0	<5.0
tert-Butylbenzene	<5.0	<1.0	<50.0	<1.0	<5.0
Tetrachloroethene	1460	<1.0	3970	33.8	167000
Tetrahydrofuran	<50.0	252	543	6300	600
Toluene	<5.0	<1.0	<50.0	<1.0	<5.0
trans-1,2-Dichloroethene	<5.0	<1.0	<50.0	<1.0	<5.0
trans-1,3-Dichloropropene	<20.0	<4.0	<200	<4.0	<20.0
Trichloroethene	<5.0	<1.0	<50.0	<1.0	159
Trichlorofluoromethane	<20.0	<4.0	<200	<4.0	<20.0
Vinyl acetate	<100	<20.0	<1000	<20.0	<100
Vinyl chloride	<2.0	<0.40	<20.0	<0.40	<2.0
Xylene (Total)	<15.0	<3.0	<150	<3.0	<15.0
Total VOC Concentration	1,546.7	479.2	4,566.7	8,990.8	176,338.3

Bold : Parameter detected above the reporting limit.

Bold : Total VOC Concentration is 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 from construction of the DPE system and air stripper.

³: Increase in VOCs was from PVC glue and cement from installation of the secondary demister moisture separator.

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-14	2/22/2010	989.50	12.51	976.99	DPE System on all wells
MW-14	3/25/2010	989.50	11.90	977.60	DPE System on all wells
MW-14	4/16/2010	989.50	12.21	977.29	DPE System on all wells
MW-14	5/12/2010	989.50	12.68	976.82	DPE System on all wells
MW-14	6/17/2010	989.50	13.01	976.49	DPE System on all wells
MW-14	8/18/2010	989.50	13.28	976.22	DPE System on all wells
MW-14	9/27/2010	989.50	10.85	978.65	DPE System on all wells
MW-14	11/18/2010	989.50	11.16	978.34	DPE System not operating
MW-14	12/22/2010	989.50	11.56	977.94	DPE System restarted
MW-14	1/6/2011	989.50	10.82	978.68	DPE System on all wells
MW-14	1/20/2011	989.50	11.18	978.32	DPE System on all wells
MW-14	2/28/2011	989.50	11.18	978.32	DPE System on all wells
MW-14	3/7/2011	989.50	11.60	977.90	DPE System on all wells
MW-14	3/18/2011	989.50	11.47	978.03	DPE System on all wells
MW-14	3/23/2011	989.50	10.84	978.66	DPE System on all wells
MW-14	4/22/2011	989.50	12.70	976.80	DPE System on all wells
MW-14	5/19/2011	989.50	10.96	978.54	DPE System on all wells
MW-14	6/16/2011	989.50	11.13	978.37	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-15	2/22/2010	991.50	15.72	975.78	DPE System on all wells
MW-15	3/25/2010	991.50	14.57	976.93	DPE System on all wells
MW-15	4/16/2010	991.50	14.72	976.78	DPE System on all wells
MW-15	5/12/2010	991.50	15.44	976.06	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
MW-15	6/17/2010	991.50	16.28	975.22	DPE System on all wells
MW-15	8/18/2010	991.50	16.24	975.26	DPE System on all wells
MW-15	9/27/2010	991.50	13.68	977.82	DPE System on all wells
MW-15	11/18/2010	991.50	13.79	977.71	DPE System not operating
MW-15	12/22/2010	991.50	14.03	977.47	DPE System restarted
MW-15	1/6/2011	991.50	13.53	977.97	DPE System on all wells
MW-15	1/20/2011	991.50	13.55	977.95	DPE System on all wells
MW-15	2/28/2011	991.50	13.71	977.79	DPE System on all wells
MW-15	3/7/2011	991.50	14.01	977.49	DPE System on all wells
MW-15	3/18/2011	991.50	14.08	977.42	DPE System on all wells
MW-15	3/23/2011	991.50	12.79	978.71	DPE System on all wells
MW-15	4/22/2011	991.50	13.40	978.10	DPE System on all wells
MW-15	5/19/2011	991.50	13.38	978.12	DPE System on all wells
MW-15	6/16/2011	991.50	13.62	977.88	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-16	2/22/2010	989.44	13.68	975.76	DPE System on all wells
MW-16	3/25/2010	989.44	12.50	976.94	DPE System on all wells
MW-16	4/16/2010	989.44	12.72	976.72	DPE System on all wells
MW-16	5/12/2010	989.44	13.41	976.03	DPE System on all wells
MW-16	6/17/2010	989.44	13.96	975.48	DPE System on all wells
MW-16	8/18/2010	989.44	13.91	975.53	DPE System on all wells
MW-16	9/27/2010	989.44	11.37	978.07	DPE System on all wells
MW-16	11/18/2010	989.44	11.61	977.83	DPE System not operating
MW-16	12/22/2010	989.44	12.63	976.81	DPE System restarted
MW-16	1/6/2011	989.44	11.30	978.14	DPE System on all wells
MW-16	1/20/2011	989.44	11.91	977.53	DPE System on all wells
MW-16	2/28/2011	989.44	11.77	977.67	DPE System on all wells
MW-16	3/7/2011	989.44	12.27	977.17	DPE System on all wells
MW-16	3/18/2011	989.44	12.38	977.06	DPE System on all wells
MW-16	3/23/2011	989.44	11.13	978.31	DPE System on all wells
MW-16	4/22/2011	989.44	11.92	977.52	DPE System on all wells
MW-16	5/19/2011	989.44	11.88	977.56	DPE System on all wells
MW-16	6/16/2011	989.44	11.97	977.47	DPE System on all wells
MW-17	12/3/2008	989.53	12.81	976.72	pre-system installation

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	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
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-17	2/22/2010	989.53	14.37	975.16	DPE System on all wells
MW-17	3/25/2010	989.53	12.78	976.75	DPE System on all wells
MW-17	4/16/2010	989.53	13.19	976.34	DPE System on all wells
MW-17	5/12/2010	989.53	13.84	975.69	DPE System on all wells
MW-17	6/17/2010	989.53	14.13	975.40	DPE System on all wells
MW-17	8/18/2010	989.53	15.08	974.45	DPE System on all wells
MW-17	9/27/2010	989.53	12.68	976.85	DPE System on all wells
MW-17	11/18/2010	989.53	12.68	976.85	DPE System not operating
MW-17	12/22/2010	989.53	12.50	977.03	DPE System restarted
MW-17	1/6/2011	989.53	12.17	977.36	DPE System on all wells
MW-17	1/20/2011	989.53	12.25	977.28	DPE System on all wells
MW-17	2/28/2011	989.53	12.20	977.33	DPE System on all wells
MW-17	3/7/2011	989.53	12.41	977.12	DPE System on all wells
MW-17	3/18/2011	989.53	12.44	977.09	DPE System on all wells
MW-17	3/23/2011	989.53	11.41	978.12	DPE System on all wells
MW-17	4/22/2011	989.53	11.64	977.89	DPE System on all wells
MW-17	5/19/2011	989.53	11.96	977.57	DPE System on all wells
MW-17	6/16/2011	989.53	12.21	977.32	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-18	2/22/2010	989.50	15.49	974.01	DPE System on all wells
MW-18	3/25/2010	989.50	13.24	976.26	DPE System on all wells
MW-18	4/16/2010	989.50	13.83	975.67	DPE System on all wells
MW-18	5/12/2010	989.50	14.60	974.90	DPE System on all wells
MW-18	6/17/2010	989.50	15.14	974.36	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
MW-18	8/18/2010	989.50	16.53	972.97	DPE System on all wells
MW-18	9/27/2010	989.50	13.79	975.71	DPE System on all wells
MW-18	11/18/2010	989.50	13.54	975.96	DPE System not operating
MW-18	12/22/2010	989.50	13.20	976.30	DPE System restarted
MW-18	1/6/2011	989.50	13.03	976.47	DPE System on all wells
MW-18	1/20/2011	989.50	12.88	976.62	DPE System on all wells
MW-18	2/28/2011	989.50	12.79	976.71	DPE System on all wells
MW-18	3/7/2011	989.50	13.21	976.29	DPE System on all wells
MW-18	3/18/2011	989.50	12.99	976.51	DPE System on all wells
MW-18	3/23/2011	989.50	12.08	977.42	DPE System on all wells
MW-18	4/22/2011	989.50	12.27	977.23	DPE System on all wells
MW-18	5/19/2011	989.50	12.80	976.70	DPE System on all wells
MW-18	6/16/2011	989.50	13.19	976.31	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-19	2/22/2010	991.13	14.62	976.51	DPE System on all wells
MW-19	3/25/2010	991.13	13.81	977.32	DPE System on all wells
MW-19	4/16/2010	991.13	14.21	976.92	DPE System on all wells
MW-19	5/12/2010	991.13	14.84	976.29	DPE System on all wells
MW-19	6/17/2010	991.13	15.01	976.12	DPE System on all wells
MW-19	8/18/2010	991.13	15.71	975.42	DPE System on all wells
MW-19	9/27/2010	991.13	12.94	978.19	DPE System on all wells
MW-19	11/18/2010	991.13	13.26	977.87	DPE System not operating
MW-19	12/22/2010	991.13	13.69	977.44	DPE System restarted
MW-19	1/6/2011	991.13	13.06	978.07	DPE System on all wells
MW-19	1/20/2011	991.13	13.41	977.72	DPE System on all wells
MW-19	2/28/2011	991.13	13.92	977.21	DPE System on all wells
MW-19	3/7/2011	991.13	13.18	977.95	DPE System on all wells
MW-19	3/18/2011	991.13	13.56	977.57	DPE System on all wells
MW-19	3/23/2011	991.13	12.09	979.04	DPE System on all wells
MW-19	4/22/2011	991.13	12.42	978.71	DPE System on all wells
MW-19	5/19/2011	991.13	12.84	978.29	DPE System on all wells
MW-19	6/16/2011	991.13	13.05	978.08	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

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-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
MW-20	2/22/2010	991.50	12.78	978.72	DPE System on all wells
MW-20	3/25/2010	991.50	12.54	978.96	DPE System on all wells
MW-20	4/16/2010	991.50	12.76	978.74	DPE System on all wells
MW-20	5/12/2010	991.50	13.18	978.32	DPE System on all wells
MW-20	6/17/2010	991.50	12.99	978.51	DPE System on all wells
MW-20	8/18/2010	991.50	12.71	978.79	DPE System on all wells
MW-20	9/27/2010	991.50	10.17	981.33	DPE System on all wells
MW-20	11/18/2010	991.50	11.68	979.82	DPE System not operating
MW-20	12/22/2010	991.50	12.15	979.35	DPE System restarted
MW-20	1/6/2011	991.50	11.99	979.51	DPE System on all wells
MW-20	1/20/2011	991.50	12.45	979.05	DPE System on all wells
MW-20	2/28/2011	991.50	12.69	978.81	DPE System on all wells
MW-20	3/7/2011	991.50	12.26	979.24	DPE System on all wells
MW-20	3/18/2011	991.50	12.62	978.88	DPE System on all wells
MW-20	3/23/2011	991.50	11.19	980.31	DPE System on all wells
MW-20	4/22/2011	991.50	11.22	980.28	DPE System on all wells
MW-20	5/19/2011	991.50	11.26	980.24	DPE System on all wells
MW-20	6/16/2011	991.50	11.69	979.81	DPE System on all wells
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	NR	NR	DPE system on DPE-1
DPE-1	9/4/2009	992.40	NR	NR	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	NR	NR	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-1	2/22/2010	992.40	12.22	980.18	DPE System on all wells
DPE-1	3/25/2010	992.40	15.72	976.68	DPE System on all wells
DPE-1	4/16/2010	992.40	15.88	976.52	DPE System on all wells
DPE-1	5/12/2010	992.40	16.48	975.92	DPE System on all wells
DPE-1	6/17/2010	992.40	16.62	975.78	DPE System on all wells
DPE-1	8/18/2010	992.40	16.80	975.60	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	9/27/2010	992.40	14.60	977.80	DPE System on all wells
DPE-1	11/18/2010	992.40	14.99	977.41	DPE System not operating
DPE-1	12/22/2010	992.40	15.72	976.68	DPE System restarted
DPE-1	1/6/2011	992.40	14.04	978.36	DPE System on all wells
DPE-1	1/20/2011	992.40	16.80	975.60	DPE System on all wells
DPE-1	2/28/2011	992.40	15.33	977.07	DPE System on all wells
DPE-1	3/7/2011	992.40	17.27	975.13	DPE System on all wells
DPE-1	3/18/2011	992.40	17.80	974.60	DPE System on all wells
DPE-1	3/23/2011	992.40	15.92	976.48	DPE System on all wells
DPE-1	4/22/2011	992.40	16.61	975.79	DPE System on all wells
DPE-1	5/19/2011	992.40	14.59	977.81	DPE System on all wells
DPE-1	6/16/2011	992.40	17.06	975.34	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-2	2/22/2010	992.80	14.19	978.61	DPE System on all wells
DPE-2	3/25/2010	992.80	15.50	977.30	DPE System on all wells
DPE-2	4/16/2010	992.80	16.31	976.49	DPE System on all wells
DPE-2	5/12/2010	992.80	16.31	976.49	DPE System on all wells
DPE-2	6/17/2010	992.80	17.09	975.71	DPE System on all wells
DPE-2	8/18/2010	992.80	17.58	975.22	DPE System on all wells
DPE-2	9/27/2010	992.80	14.92	977.88	DPE System on all wells
DPE-2	11/18/2010	992.80	14.79	978.01	DPE System not operating
DPE-2	12/22/2010	992.80	15.72	977.08	DPE System restarted
DPE-2	1/6/2011	992.80	14.42	978.38	DPE System on all wells
DPE-2	1/20/2011	992.80	14.98	977.82	DPE System on all wells
DPE-2	2/28/2011	992.80	14.88	977.92	DPE System on all wells
DPE-2	3/7/2011	992.80	15.22	977.58	DPE System on all wells
DPE-2	3/18/2011	992.80	15.41	977.39	DPE System on all wells
DPE-2	3/23/2011	992.80	13.62	979.18	DPE System on all wells
DPE-2	4/22/2011	992.80	14.51	978.29	DPE System on all wells
DPE-2	5/19/2011	992.80	14.78	978.02	DPE System on all wells
DPE-2	6/16/2011	992.80	15.00	977.80	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

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-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-3	2/22/2010	992.48	15.29	977.19	DPE System on all wells
DPE-3	3/25/2010	992.48	15.68	976.80	DPE System on all wells
DPE-3	4/16/2010	992.48	15.80	976.68	DPE System on all wells
DPE-3	5/12/2010	992.48	16.26	976.22	DPE System on all wells
DPE-3	6/17/2010	992.48	16.43	976.05	DPE System on all wells
DPE-3	8/18/2010	992.48	17.20	975.28	DPE System on all wells
DPE-3	9/27/2010	992.48	14.29	978.19	DPE System on all wells
DPE-3	11/18/2010	992.48	14.62	977.86	DPE System not operating
DPE-3	12/22/2010	992.48	15.62	976.86	DPE System restarted
DPE-3	1/6/2011	992.48	14.50	977.98	DPE System on all wells
DPE-3	1/20/2011	992.48	14.99	977.49	DPE System on all wells
DPE-3	2/28/2011	992.48	15.22	977.26	DPE System on all wells
DPE-3	3/7/2011	992.48	15.20	977.28	DPE System on all wells
DPE-3	3/18/2011	992.48	15.57	976.91	DPE System on all wells
DPE-3	3/23/2011	992.48	13.88	978.60	DPE System on all wells
DPE-3	4/22/2011	992.48	14.51	977.97	DPE System on all wells
DPE-3	5/19/2011	992.48	14.96	977.52	DPE System on all wells
DPE-3	6/16/2011	992.48	15.83	976.65	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
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-4	2/22/2010	992.40	16.08	976.32	DPE System on all wells
DPE-4	3/25/2010	992.40	16.22	976.18	DPE System on all wells
DPE-4	4/16/2010	992.40	16.21	976.19	DPE System on all wells
DPE-4	5/12/2010	992.40	16.86	975.54	DPE System on all wells
DPE-4	6/17/2010	992.40	16.83	975.57	DPE System on all wells
DPE-4	8/18/2010	992.40	16.74	975.66	DPE System on all wells
DPE-4	9/27/2010	992.40	14.74	977.66	DPE System on all wells

TABLE 7

GROUNDWATER ELEVATIONS
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Rochester, Minnesota

Well ID	Date Measured	Top of Casing Elevation ^{1,2}	Depth to Groundwater (feet)	Groundwater Elevation ³	System Status
DPE-4	11/18/2010	992.40	14.93	977.47	DPE System not operating
DPE-4	12/22/2010	992.40	14.89	977.51	DPE System restarted
DPE-4	1/6/2011	992.40	14.61	977.79	DPE System on all wells
DPE-4	1/20/2011	992.40	15.15	977.25	DPE System on all wells
DPE-4	2/28/2011	992.40	15.30	977.10	DPE System on all wells
DPE-4	3/7/2011	992.40	15.62	976.78	DPE System on all wells
DPE-4	3/18/2011	992.40	15.62	976.78	DPE System on all wells
DPE-4	3/23/2011	992.40	14.04	978.36	DPE System on all wells
DPE-4	4/22/2011	992.40	14.64	977.76	DPE System on all wells
DPE-4	5/19/2011	992.40	15.80	976.60	DPE System on all wells
DPE-4	6/16/2011	992.40	15.02	977.38	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	NR	NR	DPE System on all wells
DPE-5	1/14/2010	992.46	15.00	977.46	DPE System on all wells
DPE-5	2/22/2010	992.46	15.01	977.45	DPE System on all wells
DPE-5	3/25/2010	992.46	16.42	976.04	DPE System on all wells
DPE-5	4/16/2010	992.46	15.54	976.92	DPE System on all wells
DPE-5	5/12/2010	992.46	15.98	976.48	DPE System on all wells
DPE-5	6/17/2010	992.46	17.21	975.25	DPE System on all wells
DPE-5	8/18/2010	992.46	16.55	975.91	DPE System on all wells
DPE-5	9/27/2010	992.46	13.73	978.73	DPE System on all wells
DPE-5	11/18/2010	992.46	14.19	978.27	DPE System not operating
DPE-5	12/22/2010	992.46	15.41	977.05	DPE System restarted
DPE-5	1/6/2011	992.46	14.14	978.32	DPE System on all wells
DPE-5	1/20/2011	992.46	15.38	977.08	DPE System on all wells
DPE-5	2/28/2011	992.46	15.38	977.08	DPE System on all wells
DPE-5	3/7/2011	992.46	16.81	975.65	DPE System on all wells
DPE-5	3/18/2011	992.46	15.03	977.43	DPE System on all wells
DPE-5	3/23/2011	992.46	13.08	979.38	DPE System on all wells
DPE-5	4/22/2011	992.46	16.26	976.20	DPE System on all wells
DPE-5	5/19/2011	992.46	14.32	978.14	DPE System on all wells
DPE-5	6/16/2011	992.46	14.73	977.73	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

TABLE 7

GROUNDWATER ELEVATIONS
MN Bio Business Center
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Rochester, Minnesota

Well ID	Date Measured	Top of Casing Elevation ^{1,2}	Depth to Groundwater (feet)	Groundwater Elevation ³	System Status
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-6	2/22/2010	992.40	15.61	976.79	DPE System on all wells
DPE-6	3/25/2010	992.40	15.24	977.16	DPE System on all wells
DPE-6	4/16/2010	992.40	15.48	976.92	DPE System on all wells
DPE-6	5/12/2010	992.40	16.02	976.38	DPE System on all wells
DPE-6	6/17/2010	992.40	15.98	976.42	DPE System on all wells
DPE-6	8/18/2010	992.40	16.56	975.84	DPE System on all wells
DPE-6	9/27/2010	992.40	13.98	978.42	DPE System on all wells
DPE-6	11/18/2010	992.40	14.24	978.16	DPE System not operating
DPE-6	12/22/2010	992.40	14.89	977.51	DPE System restarted
DPE-6	1/6/2011	992.40	13.96	978.44	DPE System on all wells
DPE-6	1/20/2011	992.40	14.20	978.20	DPE System on all wells
DPE-6	2/28/2011	992.40	14.31	978.09	DPE System on all wells
DPE-6	3/7/2011	992.40	14.80	977.60	DPE System on all wells
DPE-6	3/18/2011	992.40	14.87	977.53	DPE System on all wells
DPE-6	3/23/2011	992.40	14.08	978.32	DPE System on all wells
DPE-6	4/22/2011	992.40	13.52	978.88	DPE System on all wells
DPE-6	5/19/2011	992.40	14.09	978.31	DPE System on all wells
DPE-6	6/16/2011	992.40	14.30	978.10	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
DPE-7	2/22/2010	993.48	16.98	976.50	DPE System on all wells
DPE-7	3/25/2010	993.48	16.65	976.83	DPE System on all wells
DPE-7	4/16/2010	993.48	16.71	976.77	DPE System on all wells
DPE-7	5/12/2010	993.48	17.41	976.07	DPE System on all wells
DPE-7	6/17/2010	993.48	17.50	975.98	DPE System on all wells
DPE-7	8/18/2010	993.48	17.98	975.50	DPE System on all wells
DPE-7	9/27/2010	993.48	15.36	978.12	DPE System on all wells
DPE-7	11/18/2010	993.48	15.59	977.89	DPE System not operating

TABLE 7

GROUNDWATER ELEVATIONS
MN Bio Business Center
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Well ID	Date Measured	Top of Casing Elevation ^{1,2}	Depth to Groundwater (feet)	Groundwater Elevation ³	System Status
DPE-7	12/22/2010	993.48	16.02	977.46	DPE System restarted
DPE-7	1/6/2011	993.48	15.20	978.28	DPE System on all wells
DPE-7	1/20/2011	993.48	15.31	978.17	DPE System on all wells
DPE-7	2/28/2011	993.48	15.61	977.87	DPE System on all wells
DPE-7	3/7/2011	993.48	16.08	977.40	DPE System on all wells
DPE-7	3/18/2011	993.48	16.08	977.40	DPE System on all wells
DPE-7	3/23/2011	993.48	14.83	978.65	DPE System on all wells
DPE-7	4/22/2011	993.48	15.60	977.88	DPE System on all wells
DPE-7	5/19/2011	993.48	15.33	978.15	DPE System on all wells
DPE-7	6/16/2011	993.48	15.58	977.90	DPE System on all wells
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
DPE-8	2/22/2010	992.84	14.19	978.65	DPE System on all wells
DPE-8	3/25/2010	992.84	15.72	977.12	DPE System on all wells
DPE-8	4/16/2010	992.84	16.20	976.64	DPE System on all wells
DPE-8	5/12/2010	992.84	16.61	976.23	DPE System on all wells
DPE-8	6/17/2010	992.84	16.92	975.92	DPE System on all wells
DPE-8	8/18/2010	992.84	17.21	975.63	DPE System on all wells
DPE-8	9/27/2010	992.84	14.75	978.09	DPE System on all wells
DPE-8	11/18/2010	992.84	15.37	977.47	DPE System not operating
DPE-8	12/22/2010	992.84	15.40	977.44	DPE System restarted
DPE-8	1/6/2011	992.84	15.18	977.66	DPE System on all wells
DPE-8	1/20/2011	992.84	16.15	976.69	DPE System on all wells
DPE-8	2/28/2011	992.84	16.78	976.06	DPE System on all wells
DPE-8	3/7/2011	992.84	15.81	977.03	DPE System on all wells
DPE-8	3/18/2011	992.84	15.71	977.13	DPE System on all wells
DPE-8	3/23/2011	992.84	14.20	978.64	DPE System on all wells
DPE-8	4/22/2011	992.84	14.61	978.23	DPE System on all wells
DPE-8	5/19/2011	992.84	15.18	977.66	DPE System on all wells
DPE-8	6/16/2011	992.84	15.48	977.36	DPE System on all wells
Elevator Drantile Sump	6/8/2009	989.58	7.00	982.58	pre-system startup

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
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
Elevator Draintile Sump	2/22/2010	990.20	6.81	983.39	DPE System on all wells
Elevator Draintile Sump	3/25/2010	990.20	6.88	983.32	DPE System on all wells
Elevator Draintile Sump	4/16/2010	990.20	6.91	983.29	DPE System on all wells
Elevator Draintile Sump	5/12/2010	990.20	7.01	983.19	DPE System on all wells
Elevator Draintile Sump	6/17/2010	990.20	6.88	983.32	DPE System on all wells
Elevator Draintile Sump	8/18/2010	990.20	6.72	983.48	DPE System on all wells
Elevator Draintile Sump	9/27/2010	990.20	6.02	984.18	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
Elevator Draintile Sump	11/18/2010	990.20	6.59	983.61	DPE System not operating
Elevator Draintile Sump	12/22/2010	990.20	6.48	983.72	DPE System restarted
Elevator Draintile Sump	1/6/2011	990.20	NA	NA	DPE System on all wells
Elevator Draintile Sump	1/20/2011	990.20	6.84	983.36	DPE System on all wells
Elevator Draintile Sump	2/28/2011	990.20	7.03	983.17	DPE System on all wells
Elevator Draintile Sump	3/7/2011	990.20	6.91	983.29	DPE System on all wells
Elevator Draintile Sump	3/18/2011	990.20	6.97	983.23	DPE System on all wells
Elevator Draintile Sump	3/23/2011	990.20	6.76	983.44	DPE System on all wells
Elevator Draintile Sump	4/22/2011	990.20	6.52	983.68	DPE System on all wells
Elevator Draintile Sump	5/19/2011	990.20	6.27	983.93	DPE System on all wells
Elevator Draintile Sump	6/16/2011	990.20	6.52	983.68	DPE System on all wells

Notes:

NR: Not Recorded

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 Adolfsen 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 GROUNDWATER 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	
	6/29/2009	30.6	
	10/1/2009	4.2	-86.3
	11/16/2009	7.1	-76.8
	2/23/2010	3.0	-90.2
	5/12/2010	3.1	-89.9
	8/18/2010	1.8	-94.1
	11/18/2010	4.8	-84.3
	3/1/2011	6.6	-78.4
	5/19/2011	4.8	-84.3
MW-15	12/10/2008	104	
	6/29/2009	104	
	10/1/2009	15.7	-84.9
	11/16/2009	9.5	-90.9
	2/22/2010	5.7	-94.5
	5/12/2010	2.8	-97.3
	8/18/2010	1.3	-98.8
	11/18/2010	<1.0	-100.0
	3/1/2011	3.3	-96.8
	5/19/2011	<1.0	-100.0
MW-16	12/3/2008	14,100	
	6/29/2009	14,100	
	10/1/2009	6,890	-51.1
	11/16/2009	21,000	48.9
	2/22/2010	4,390	-68.9
	5/12/2010	815	-94.2
	8/18/2010	696	-95.1
	11/18/2010	322	-97.7
	3/1/2011	2,120	-85.0
	5/19/2011	1,310	-90.7
MW-17	12/3/2008	363	
	6/29/2009	363	
	10/1/2009	803	121.2
	11/16/2009	1,100	203.0
	2/22/2010	639	76.0
	5/12/2010	412	13.5
	8/18/2010	174	-52.1
	11/18/2010	145	-60.1
	3/1/2011	209	-42.4
	5/19/2011	109	-70.0

TABLE 9

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

Sample ID	Date	PCE Conc. (ug/L)	% Change
MW-18	12/3/2008	257	
	6/29/2009	257	
	10/1/2009	250	-2.7
	11/16/2009	130	-49.4
	2/22/2010	96.8	-62.3
	5/12/2010	26.0	-89.9
	8/18/2010	8.4	-96.7
	11/18/2010	4.8	-98.1
	3/1/2011	8.6	-96.7
	5/19/2011	3.6	-98.6
MW-19	12/3/2008	2.4	
	6/29/2009	2.4	
	9/24/2009	17.4	625.0
	11/16/2009	13.6	466.7
	2/23/2010	12.9	437.5
	5/12/2010	7.2	200.0
	8/18/2010	4.2	75.0
	11/18/2010	4.8	100.0
	3/1/2011	4.8	100.0
	5/19/2011	4.7	95.8
MW-20	12/10/2008	599	
	6/29/2009	599	
	10/1/2009	713	19.0
	11/16/2009	307	-48.7
	2/23/2010	402	-32.9
	5/12/2010	194	-67.6
	8/18/2010	74.7	-87.5
	11/18/2010	50.9	-91.5
	3/1/2011	211	-64.8
	5/19/2011	16.8	-97.2
DPE-1	8/7/2008	157,000	
	12/10/2008	161,000	
	6/29/2009	161,000	
	9/28/2009	6,820	-95.8
	11/16/2009	3,330	-97.9
	2/22/2010	2,610	-98.4
	5/13/2010	1,700	-98.9
	8/18/2010	965	-99.4
	12/22/2010	1,190	-99.3
	3/1/2011	101	-99.9
	5/19/2011	185	-99.9

TABLE 9

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

Sample ID	Date	PCE Conc. (ug/L)	% Change
DPE-2	12/10/2008	38,200	
	6/29/2009	38,200	
	9/28/2009	32,000	-16.2
	11/17/2009	10,600	-72.3
	2/22/2010	2,710	-92.9
	5/13/2010	5,800	-84.8
	8/18/2010	12,100	-68.3
	12/22/2010	4,690	-87.7
	3/1/2011	2,990	-92.2
5/19/2011	1,680	-95.6	
DPE-3	12/10/2008	152,000	
	6/29/2009	152,000	
	9/28/2009	20,300	-86.6
	11/17/2009	34,600	-77.2
	2/22/2010	806	-99.5
	5/13/2010	2,240	-98.5
	8/18/2010	20,400	-86.6
	12/22/2010	1,450	-99.0
	3/1/2011	12,700	-91.6
5/19/2011	3,220	-97.9	
DPE-4	12/10/2008	35,600	
	6/29/2009	35,600	
	9/28/2009	7,340	-79.4
	11/17/2009	5,040	-85.8
	2/22/2010	429	-98.8
	5/13/2010	357	-99.0
	8/18/2010	2,600	-92.7
	12/22/2010	1,100	-96.9
	3/1/2011	1,160	-96.7
5/19/2011	367	-99.0	
DPE-5	12/10/2008	1,340	
	6/29/2009	1,340	
	9/24/2009	875	-34.7
	11/17/2009	1,450	8.2
	2/22/2010	486	-63.7
	5/13/2010	205	-84.7
	8/18/2010	124	-90.7
	12/22/2010	22	-98.4
	3/1/2011	339	-74.7
5/19/2011	67	-95.0	

TABLE 9

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

Sample ID	Date	PCE Conc. (ug/L)	% Change
DPE-6	12/10/2008	188	
	6/29/2009	188	
	9/24/2009	79.3	-57.8
	11/17/2009	104	-44.7
	2/22/2010	57.8	-69.3
	5/13/2010	14.6	-92.2
	8/18/2010	21.7	-88.5
	12/22/2010	77.1	-59.0
	3/1/2011	3.9	-97.9
	5/19/2011	23.4	-87.6
DPE-7	12/10/2008	22.3	
	6/29/2009	22.3	
	9/24/2009	5.2	-76.7
	11/17/2009	55.2	147.5
	2/22/2010	7.3	-67.3
	5/13/2010	25.7	15.2
	8/18/2010	189	747.5
	12/22/2010	23.2	4.0
	3/1/2011	7.1	-68.2
	5/19/2011	15.9	-28.7
DPE-8	12/10/2008	14,200	
	6/29/2009	14,200	
	9/24/2009	1,850	-87.0
	11/17/2009	1,480	-89.6
	2/22/2010	90.3	-99.4
	5/13/2010	66.9	-99.5
	8/18/2010	131.0	-99.1
	12/22/2010	262.0	-98.2
	3/1/2011	415.0	-97.1
	5/19/2011	698.0	-95.1

TABLE 10

GROUNDWATER ANALYTICAL RESULTS (ug/L)

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

Sample ID	MDH Health Risk Limits 5/09	DPE-1 5/19/2011	DPE-1 03/01/11	DPE-1 12/22/10	DPE-1 08/18/10	DPE-1 05/13/10	DPE-1 02/22/10	DPE-1 11/16/09	DPE-1 09/28/09	DPE-1 12/10/08	DPE-1 8/7/2008
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,1,1-Trichloroethane	9000	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,1,2-Trichloroethane	3	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,1,2-Trichlorotrifluoroethane	200000	13.3	3.2	37.8	66.4	148	190	215	912	NA*	11,300
1,1-Dichloroethane	70	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,1-Dichloroethene	6	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	<2000	<250
1,1-Dichloropropene	NL	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,2,3-Trichloropropane	40	<4.0	<4.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<20.0	<20.0	<4.0	<100	<100	<200	NA*	<1000
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,2-Dichlorobenzene	600	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,2-Dichloroethane	4	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,2-Dichloropropane	5	<4.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,3-Dichlorobenzene	NL	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,3-Dichloropropane	NL	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,4-Dichlorobenzene	10	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
2,2-Dichloropropane	NL	<4.0	<4.0	<20.0	<20.0	<4.0	<25.0	<100	<50.0	NA*	<250
2-Butanone (MEK)	4000	<4.0	<4.0	<20.0	<20.0	<4.0	<100	<100	<200	NA*	<1000
2-Chlorotoluene	NL	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
4-Chlorotoluene	NL	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<20.0	<20.0	<4.0	<100	<100	<200	NA*	<1000
Acetone	700	<25.0	<25.0	<50.0	<50.0	<10.0	<250	<250	<500	NA*	<2500
Allyl chloride	30	<4.0	<4.0	<20.0	<20.0	<4.0	<100	<100	<200	NA*	<1000
Benzene	2	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Bromobenzene	NL	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Bromochloromethane	NL	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Bromodichloromethane	6	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Bromoform	40	<4.0	<8.0	<40.0	<40.0	<8.0	<200	<200	<400	NA*	<2000
Bromomethane	10	<4.0	<10.0	<20.0	<20.0	<4.0	<100	<100	<200	NA*	<1000
Carbon tetrachloride	3	<1.0	<4.0	<20.0	<20.0	<4.0	<25.0	<100	<50.0	NA*	<250
Chlorobenzene	100	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Chloroethane	300	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Chloroform	30	<1.0	<1.0	<5.0	<5.0	2.6	<25.0	<25.0	<50.0	NA*	<250
Chloromethane	NL	<4.0	<4.0	<20.0	<20.0	<4.0	<100	<100	<200	NA*	<250
cis-1,2-Dichloroethene	50	1.3	<1.0	11.5	<5.0	8.7	<25.0	<25.0	<50.0	<2000	3,250
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<20.0	<20.0	<4.0	<100	<100	<200	NA*	<1000
Dibromochloromethane	10	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Dibromomethane	NL	<4.0	<4.0	<20.0	<20.0	<4.0	<25.0	<25.0	<50.0	NA*	<250
Dichlorodifluoromethane	1000	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Dichlorofluoromethane	NL	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<20.0	<20.0	<4.0	<100	<100	<200	NA*	<1000
Ethylbenzene	700	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Hexachloro-1,3-butadiene	1	<5.0	<4.0	<20.0	<20.0	<4.0	<100	<100	<200	NA*	<1000
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
m&p-Xylene	NL	<2.0	<2.0	<10.0	<10.0	<2.0	<50.0	<50.0	<100	NA*	<500
Methylene Chloride	5	<4.0	<4.0	<20.0	<20.0	<4.0	<100	<100	<200	NA*	<1000
Methyl-tert-butyl ether	70	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Naphthalene	300	<4.0	<4.0	<20.0	<20.0	<4.0	<100	<100	<200	NA*	<1000
n-Butylbenzene	NL	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
n-Propylbenzene	NL	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
o-Xylene	NL	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
p-Isopropyltoluene	NL	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
sec-Butylbenzene	NL	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Styrene	NL	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
tert-Butylbenzene	NL	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Tetrachloroethane	5	185	101	1190	965	1,700	2,610	3,330	6,820	161,000	157,000
Tetrahydrofuran	100	<10.0	<10.0	<50.0	<50.0	<10.0	<250	<250	<500	NA*	<2500
Toluene	1000	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
trans-1,2-Dichloroethene	100	<4.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	<2000	<250
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<20.0	<20.0	<4.0	<100	<100	<200	NA*	<1000
Trichloroethene	5	<1.0	<1.0	<5.0	<5.0	2.3	<25.0	<25.0	<50.0	<2000	563
Trichlorofluoromethane	2000	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Vinyl chloride	0.2	<0.40	<0.40	<2.0	<2.0	<0.40	<10.0	<10.0	<20.0	<800	<100
Xylene (Total)	10000	<3.0	<3.0	<15.0	<15.0	<3.0	<75.0	<75.0	<150	NA*	<750

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 Risk Limits 5/09	DPE-2 05/19/11	DPE-2 03/01/11	DPE-2 12/22/10	DPE-2 08/18/10	DPE-2 05/13/10	DPE-2 02/22/10	DPE-2 11/17/2009	DPE-2 09/28/09	DPE-2 12/10/08
1,1,1,2-Tetrachloroethane	70	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,1,1-Trichloroethane	9000	<1.0	<25.0	<50.0	<50.0	2.9	<20.0	<100	<250	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,1,2-Trichloroethane	3	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,1,2-Trichlorotrifluoroethane	200000	199	<25.0	356	997	673	305	1,270	1,620	NA*
1,1-Dichloroethane	70	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,1-Dichloroethene	6	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	<500
1,1-Dichloropropene	NL	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,2,3-Trichloropropane	40	<4.0	<100	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,2,4-Trichlorobenzene	NL	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<100	<200	<200	<4.0	<80.0	<400	<1000	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,2-Dichlorobenzene	600	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,2-Dichloroethane	4	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,2-Dichloropropane	5	<4.0	<25.0	<50.0	<50.0	1.3	<20.0	<100	<250	NA*
1,3,5-Trimethylbenzene	100	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,3-Dichlorobenzene	NL	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,3-Dichloropropane	NL	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,4-Dichlorobenzene	10	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
2,2-Dichloropropane	NL	<4.0	<100	<200	<200	<4.0	<20.0	<400	<250	NA*
2-Butanone (MEK)	4000	<4.0	<100	<200	<200	<4.0	<80.0	<400	<1000	NA*
2-Chlorotoluene	NL	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
4-Chlorotoluene	NL	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	<100	<200	<200	<4.0	<80.0	<400	<1000	NA*
Acetone	700	<25.0	<625	<500	<500	<10.0	<200	<1000	<2500	NA*
Allyl chloride	30	<4.0	<100	<200	<200	<4.0	<80.0	<400	<1000	NA*
Benzene	2	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Bromobenzene	NL	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Bromochloromethane	NL	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Bromodichloromethane	6	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Bromoform	40	<4.0	<200	<400	<400	<8.0	<160	<800	<2000	NA*
Bromomethane	10	<4.0	<250	<200	<200	<4.0	<80.0	<400	<1000	NA*
Carbon tetrachloride	3	<1.0	<100	<200	<200	<4.0	<20.0	<400	<250	NA*
Chlorobenzene	100	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Chloroethane	300	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Chloroform	30	3.1	<25.0	<50.0	<50.0	3.7	<20.0	<100	<250	NA*
Chloromethane	NL	<4.0	<100	<200	<200	<4.0	<80.0	<400	<1000	NA*
cis-1,2-Dichloroethene	50	5.5	<25.0	<50.0	<50.0	25.8	<20.0	<100	<250	<500
cis-1,3-Dichloropropene	NL	<4.0	<100	<200	<200	<4.0	<80.0	<400	<1000	NA*
Dibromochloromethane	10	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Dibromomethane	NL	<4.0	<100	<200	<200	<4.0	<20.0	<100	<250	NA*
Dichlorodifluoromethane	1000	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Dichlorofluoromethane	NL	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<100	<200	<200	<4.0	<80.0	<400	<1000	NA*
Ethylbenzene	700	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Hexachloro-1,3-butadiene	1	<5.0	<100	<200	<200	<4.0	<80.0	<400	<1000	NA*
Isopropylbenzene (Cumene)	300	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
m&p-Xylene	NL	<2.0	<50.0	<100	<100	<2.0	<40.0	<200	<500	NA*
Methylene Chloride	5	<4.0	<100	<200	<200	<4.0	<80.0	<400	<1000	NA*
Methyl-tert-butyl ether	70	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Naphthalene	300	<4.0	<100	<200	<200	<4.0	<80.0	<400	<1000	NA*
n-Butylbenzene	NL	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
n-Propylbenzene	NL	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
o-Xylene	NL	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
p-Isopropyltoluene	NL	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
sec-Butylbenzene	NL	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Styrene	NL	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
tert-Butylbenzene	NL	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Tetrachloroethene	5	1680	2,990	4,690	12,100	5,800	2,710	10,600	32,000	38,200
Tetrahydrofuran	100	<10.0	<250	<500	<500	<10.0	<200	<1000	<2500	NA*
Toluene	1000	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
trans-1,2-Dichloroethene	100	<4.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	<500
trans-1,3-Dichloropropene	NL	<4.0	<100	<200	<200	<4.0	<80.0	<400	<1000	NA*
Trichloroethene	5	2.2	<25.0	<50.0	<50.0	7.5	<20.0	<100	<250	<500
Trichlorofluoromethane	2000	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Vinyl chloride	0.2	<0.40	<10.0	<20.0	<20.0	<0.40	<8.0	<40.0	<100	<200
Xylene (Total)	10000	<3.0	<75.0	<150	<150	<3.0	<60.0	<300	<750	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 Collected Date and Time	MDH Health Risk Limits 5/09	DPE-3	DPE-3	DPE-3	DPE-3	DPE-3	DPE-3	DPE-3	DPE-3	DPE-3
		05/19/11	03/01/11	12/22/10	08/18/10	05/13/10	02/22/10	11/17/09	09/28/09	12/10/08
1,1,1,2-Tetrachloroethane	70	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,1,1-Trichloroethane	9000	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,1,2,2-Tetrachloroethane	2	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,1,2-Trichloroethane	3	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,1,2-Trichlorotrifluoroethane	200000	343	1030	78.8	2,260	49.5	67.1	1,920	843	NA*
1,1-Dichloroethane	70	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,1-Dichloroethene	6	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	<500
1,1-Dichloropropene	NL	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,2,3-Trichlorobenzene	NL	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,2,3-Trichloropropane	40	<80.0	<40.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,2,4-Trichlorobenzene	NL	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,2,4-Trimethylbenzene	NL	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,2-Dibromo-3-chloropropane	NL	<80.0	<40.0	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
1,2-Dibromoethane (EDB)	.004	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,2-Dichlorobenzene	600	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,2-Dichloroethane	4	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,2-Dichloropropane	5	<80.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,3,5-Trimethylbenzene	100	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,3-Dichlorobenzene	NL	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,3-Dichloropropane	NL	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,4-Dichlorobenzene	10	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
2,2-Dichloropropane	NL	<80.0	<40.0	<40.0	<80.0	<4.0	<10.0	<800	<200	NA*
2-Butanone (MEK)	4000	<80.0	<40.0	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
2-Chlorotoluene	NL	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
4-Chlorotoluene	NL	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
4-Methyl-2-pentanone (MIBK)	300	<80.0	<40.0	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
Acetone	700	<500	<250	<100	<200	<10.0	<100	<2000	<2000	NA*
Allyl chloride	30	<80.0	<40.0	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
Benzene	2	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Bromobenzene	NL	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Bromochloromethane	NL	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Bromodichloromethane	6	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Bromoform	40	<80.0	<80.0	<80.0	<160	<8.0	<80.0	<1600	<1600	NA*
Bromomethane	10	<80.0	<40.0	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
Carbon tetrachloride	3	<20.0	<40.0	<40.0	<80.0	<4.0	<10.0	<800	<200	NA*
Chlorobenzene	100	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Chloroethane	300	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Chloroform	30	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Chloromethane	NL	<80.0	<40.0	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
cis-1,2-Dichloroethene	50	<20.0	19.6	<10.0	59.2	2.6	<10.0	<200	<200	1,090
cis-1,3-Dichloropropene	NL	<80.0	<40.0	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
Dibromochloromethane	10	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Dibromomethane	NL	<80.0	<40.0	<40.0	<80.0	<4.0	<10.0	<200	<200	NA*
Dichlorodifluoromethane	1000	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Dichlorofluoromethane	NL	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Diethyl ether (Ethyl ether)	1000	<80.0	<40.0	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
Ethylbenzene	700	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Hexachloro-1,3-butadiene	1	<100	<40.0	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
Isopropylbenzene (Cumene)	300	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
m&p-Xylene	NL	<40.0	<20.0	<20.0	<40.0	<2.0	<20.0	<400	<400	NA*
Methylene Chloride	5	<80.0	<40.0	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
Methyl-tert-butyl ether	70	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Naphthalene	300	<80.0	<40.0	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
n-Butylbenzene	NL	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
n-Propylbenzene	NL	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
o-Xylene	NL	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
p-Isopropyltoluene	NL	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
sec-Butylbenzene	NL	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Styrene	NL	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
tert-Butylbenzene	NL	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Tetrachloroethene	5	3220	12,700	1,450	20,400	2,240	806	34,600	20,300	152,000
Tetrahydrofuran	100	<200	<100	<100	<200	10.9	<100	<2000	<2000	NA*
Toluene	1000	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
trans-1,2-Dichloroethene	100	<80.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	<500
trans-1,3-Dichloropropene	NL	<80.0	<40.0	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
Trichloroethene	5	<20.0	12.3	<10.0	22.8	<1.0	<10.0	<200	<200	<500
Trichlorofluoromethane	2000	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Vinyl chloride	0.2	<8.0	<4.0	<4.0	<8.0	<0.40	<4.0	<80.0	<80.0	<200
Xylene (Total)	10000	<60.0	<30.0	<30.0	<60.0	<3.0	<30.0	<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 Collected Date and Time	MDH Health Risk Limits 5/09	DPE-4	DPE-4	DPE-4	DPE-4	DPE-4	DPE-4	DPE-4	DPE-4	DPE-4
		05/19/11	03/01/11	12/22/10	08/18/10	05/13/10	02/22/10	11/17/09	09/28/09	12/10/08
1,1,1,2-Tetrachloroethane	70	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,1,1-Trichloroethane	9000	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,1,2,2-Tetrachloroethane	2	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,1,2-Trichloroethane	3	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	60.2	127	39.4	181	48.1	41.9	464	339	NA*
1,1-Dichloroethane	70	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,1-Dichloroethene	6	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	<500
1,1-Dichloropropene	NL	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2,3-Trichlorobenzene	NL	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2,3-Trichloropropane	40	<8.0	<40.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2,4-Trichlorobenzene	NL	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2,4-Trimethylbenzene	NL	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2-Dibromo-3-chloropropane	NL	<8.0	<40.0	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
1,2-Dibromoethane (EDB)	.004	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2-Dichlorobenzene	600	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2-Dichloroethane	4	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2-Dichloropropane	5	<8.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,3,5-Trimethylbenzene	100	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,3-Dichlorobenzene	NL	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,3-Dichloropropane	NL	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,4-Dichlorobenzene	10	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
2,2-Dichloropropane	NL	<8.0	<40.0	<40.0	<20.0	<4.0	<5.0	<200	<50.0	NA*
2-Butanone (MEK)	4000	<8.0	<40.0	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
2-Chlorotoluene	NL	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
4-Chlorotoluene	NL	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<8.0	<40.0	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
Acetone	700	<50.0	<250	<100	<50.0	<10.0	<50.0	<500	<500	NA*
Allyl chloride	30	<8.0	<40.0	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
Benzene	2	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Bromobenzene	NL	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Bromochloromethane	NL	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Bromodichloromethane	6	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Bromoform	40	<8.0	<80.0	<80.0	<40.0	<8.0	<40.0	<400	<400	NA*
Bromomethane	10	<8.0	<100	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
Carbon tetrachloride	3	<2.0	<40.0	<40.0	<20.0	<4.0	<5.0	<200	<50.0	NA*
Chlorobenzene	100	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Chloroethane	300	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Chloroform	30	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Chloromethane	NL	<8.0	<40.0	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
cis-1,2-Dichloroethene	50	<2.0	<10.0	<10.0	20.7	1.1	<5.0	<50.0	<50.0	<500
cis-1,3-Dichloropropene	NL	<8.0	<40.0	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
Dibromochloromethane	10	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Dibromomethane	NL	<8.0	<40.0	<40.0	<20.0	<4.0	<5.0	<50.0	<50.0	NA*
Dichlorodifluoromethane	1000	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Dichlorofluoromethane	NL	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Diethyl ether (Ethyl ether)	1000	<8.0	<40.0	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
Ethylbenzene	700	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Hexachloro-1,3-butadiene	1	<10.0	<40.0	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
Isopropylbenzene (Cumene)	300	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
m&p-Xylene	NL	<4.0	<20.0	<20.0	<10.0	<2.0	<10.0	<100	<100	NA*
Methylene Chloride	5	<8.0	<40.0	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
Methyl-tert-butyl ether	70	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Naphthalene	300	<8.0	<40.0	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
n-Butylbenzene	NL	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
n-Propylbenzene	NL	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
o-Xylene	NL	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
p-Isopropyltoluene	NL	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
sec-Butylbenzene	NL	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Styrene	NL	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
tert-Butylbenzene	NL	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Tetrachloroethene	5	367	1,160	1,100	2,600	357	429	5,040	7,340	35,600
Tetrahydrofuran	100	<20.0	<100	<100	<50.0	<10.0	<50.0	<500	<500	NA*
Toluene	1000	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
trans-1,2-Dichloroethene	100	<8.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	<500
trans-1,3-Dichloropropene	NL	<8.0	<40.0	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
Trichloroethene	5	<2.0	<10.0	<10.0	7.1	<1.0	<5.0	<50.0	<50.0	<500
Trichlorofluoromethane	2000	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Vinyl chloride	0.2	<0.80	<4.0	<4.0	<2.0	<0.40	<2.0	<20.0	<20.0	<200
Xylene (Total)	10000	<6.0	<30.0	<30.0	<15.0	<3.0	<15.0	<150	<150	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 Collected Date and Time	MDH Health Risk Limits 5/09	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5
		05/19/11	03/01/11	12/22/10	08/18/10	05/13/10	02/22/10	11/17/09	09/24/09	12/10/08
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	5.2	13.9	<1.0	11.5	16.9	19.4	498	37.9	NA*
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	<10.0
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2,3-Trichloropropane	40	<4.0	<4.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2-Dichloropropane	5	<4.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<5.0	<40.0	<10.0	NA*
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Acetone	700	<25.0	<25.0	<10.0	<10.0	<10.0	<50.0	<100	<100	NA*
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Bromoform	40	<4.0	<8.0	<8.0	<8.0	<8.0	<40.0	<80.0	<80.0	NA*
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Carbon tetrachloride	3	<1.0	<4.0	<4.0	<4.0	<4.0	<5.0	<40.0	<10.0	NA*
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Chloroform	30	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
cis-1,2-Dichloroethene	50	<1.0	1.3	<1.0	1.3	1.8	<5.0	<10.0	<10.0	<10.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<5.0	<10.0	<10.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Hexachloro-1,3-butadiene	1	<5.0	<4.0	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<10.0	<20.0	<20.0	NA*
Methylene Chloride	5	<4.0	6.2	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Tetrachloroethene	5	67.2	339	21.6	124	205	486	1,450	875	1,340
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	<50.0	<100	<100	NA*
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
trans-1,2-Dichloroethene	100	<4.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	<10.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	<10.0
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<0.40	<0.40	<2.0	<4.0	<4.0	<4.0
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	<15.0	<30.0	<30.0	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 Risk Limits 5/09	DPE-6 05/19/11	DPE-6 03/01/11	DPE-6 12/22/10	DPE-6 08/18/10	DPE-6 05/13/10	DPE-6 02/22/10	DPE-6 11/17/09	DPE-6 09/24/09	DPE-6 12/10/08
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	<1.0	<1.0	1.5	<1.0	<1.0	<1.0	<1.0	3.5	NA*
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichloropropane	40	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloropropane	5	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Acetone	700	<25.0	<25.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromoform	40	<4.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	NA*
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Carbon tetrachloride	3	<1.0	<4.0	<4.0	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroform	30	1.4	1.1	1.2	1.0	1.1	1.6	1.6	<1.0	NA*
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
cis-1,2-Dichloroethene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	<2.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Hexachloro-1,3-butadiene	1	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NA*
Methylene Chloride	5	<4.0	7.3	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Tetrachloroethene	5	23.4	3.9	77.1	21.7	14.6	57.8	104	79.3	188
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
trans-1,2-Dichloroethene	100	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.80
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<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 Risk Limits 5/09	DPE-7 05/19/11	DPE-7 03/01/11	DPE-7 12/22/10	DPE-7 08/18/10	DPE-7 05/13/10	DPE-7 02/22/10	DPE-7 11/17/09	DPE-7 09/24/09	DPE-7 12/10/08
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	1.8	<1.0	2.2	11.9	4.0	2.7	9.8	1.6	NA*
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichloropropane	40	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloropropane	5	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Acetone	700	<25.0	<25.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromoform	40	<4.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	NA*
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Carbon tetrachloride	3	<1.0	<4.0	<4.0	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroform	30	2.3	2.3	<1.0	1.3	1.3	1.2	1.1	1.3	NA*
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
cis-1,2-Dichloroethene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Hexachloro-1,3-butadiene	1	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NA*
Methylene Chloride	5	<4.0	6.6	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Tetrachloroethene	5	15.9	7.1	23.2	189	25.7	7.3	55.2	5.2	22.3
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
trans-1,2-Dichloroethene	100	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<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 Collected Date and Time	MDH Health Risk Limits 5/09	DPE-8	DPE-8	DPE-8	DPE-8	DPE-8	DPE-8	DPE-8	DPE-8	DPE-8	
		05/19/11	03/01/11	12/22/10	08/18/10	05/13/10	02/22/10	11/17/09	09/24/09	12/10/08	
1,1,1,2-Tetrachloroethane	70	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,1,1-Trichloroethane	9000	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,1,2,2-Tetrachloroethane	2	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,1,2-Trichloroethane	3	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	77.9	48.7	33.5	5.9	2.2	3.8	34.2	43.4		NA*
1,1-Dichloroethane	70	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,1-Dichloroethene	6	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	<100
1,1-Dichloropropene	NL	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2,3-Trichlorobenzene	NL	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2,3-Trichloropropane	40	<20.0	<8.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2,4-Trichlorobenzene	NL	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2,4-Trimethylbenzene	NL	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2-Dibromo-3-chloropropane	NL	<20.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
1,2-Dibromoethane (EDB)	.004	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2-Dichlorobenzene	600	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2-Dichloroethane	4	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2-Dichloropropane	5	<20.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,3,5-Trimethylbenzene	100	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,3-Dichlorobenzene	NL	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,3-Dichloropropane	NL	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,4-Dichlorobenzene	10	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
2,2-Dichloropropane	NL	<20.0	<8.0	<4.0	<4.0	<4.0	<1.0	<40.0		<2.0	NA*
2-Butanone (MEK)	4000	<20.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	24.1		NA*
2-Chlorotoluene	NL	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
4-Chlorotoluene	NL	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<20.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
Acetone	700	<125	<50.0	<10.0	<10.0	<10.0	12.9	<100	<20.0		NA*
Allyl chloride	30	<20.0	<8.0	<4.0	<4.0	<4.0	<4.0	<40.0	<8.0		NA*
Benzene	2	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0		NA*
Bromobenzene	NL	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0		NA*
Bromochloromethane	NL	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0		NA*
Bromodichloromethane	6	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0		NA*
Bromoform	40	<20.0	<16.0	<8.0	<8.0	<8.0	<8.0	<80.0	<16.0		NA*
Bromomethane	10	<20.0	<8.0	<4.0	<4.0	<4.0	<4.0	<40.0	<8.0		NA*
Carbon tetrachloride	3	<5.0	<8.0	<4.0	<4.0	<4.0	<1.0	<40.0	<2.0		NA*
Chlorobenzene	100	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0		NA*
Chloroethane	300	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0		NA*
Chloroform	30	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0		NA*
Chloromethane	NL	<20.0	<8.0	<4.0	<4.0	<4.0	<4.0	<40.0	<8.0		NA*
cis-1,2-Dichloroethene	50	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0		<100
cis-1,3-Dichloropropene	NL	<20.0	<8.0	<4.0	<4.0	<4.0	<4.0	<40.0	<8.0		NA*
Dibromochloromethane	10	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0		NA*
Dibromomethane	NL	<20.0	<8.0	<4.0	<4.0	<4.0	<1.0	<10.0	<2.0		NA*
Dichlorodifluoromethane	1000	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0		NA*
Dichlorofluoromethane	NL	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0		NA*
Diethyl ether (Ethyl ether)	1000	<20.0	<8.0	<4.0	<4.0	<4.0	<4.0	<40.0	<8.0		NA*
Ethylbenzene	700	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0		NA*
Hexachloro-1,3-butadiene	1	<25.0	<8.0	<4.0	<4.0	<4.0	<4.0	<40.0	<8.0		NA*
Isopropylbenzene (Cumene)	300	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0		NA*
m&p-Xylene	NL	<10.0	<4.0	<2.0	<2.0	<2.0	<2.0	<20.0	<4.0		NA*
Methylene Chloride	5	<20.0	<8.0	<4.0	<4.0	<4.0	<4.0	<40.0	<8.0		NA*
Methyl-tert-butyl ether	70	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0		NA*
Naphthalene	300	<20.0	<8.0	<4.0	<4.0	<4.0	<4.0	<40.0	<8.0		NA*
n-Butylbenzene	NL	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0		NA*
n-Propylbenzene	NL	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0		NA*
o-Xylene	NL	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0		NA*
p-Isopropyltoluene	NL	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0		NA*
sec-Butylbenzene	NL	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0		NA*
Styrene	NL	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0		NA*
tert-Butylbenzene	NL	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0		NA*
Tetrachloroethene	5	698	415	262	131	66.9	90.3	1,480	1,850	14,200	
Tetrahydrofuran	100	<50.0	<20.0	<10.0	<10.0	<10.0	18.4	<100	46.1		NA*
Toluene	1000	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0		NA*
trans-1,2-Dichloroethene	100	<20.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0		<100
trans-1,3-Dichloropropene	NL	<20.0	<8.0	<4.0	<4.0	<4.0	<4.0	<40.0	<8.0		NA*
Trichloroethene	5	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0		<100
Trichlorofluoromethane	2000	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0		NA*
Vinyl chloride	0.2	<2.0	<0.80	<0.40	<0.40	<0.40	<0.40	<4.0	<0.80	<40.0	
Xylene (Total)	10000	<15.0	<6.0	<3.0	<3.0	<3.0	<3.0	<30.0	<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 Risk Limits 5/09	MW-14 05/19/11	MW-14 03/01/11	MW-14 11/18/10	MW-14 08/18/10	MW-14 05/12/10	MW-14 02/23/10	MW-14 11/16/09	MW-14 10/01/09	MW-14 12/03/08
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	NA*
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichloropropane	40	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloropropane	5	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Acetone	700	<25.0	<25.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	NA*
Bromoform	40	<4.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	NA*
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Carbon tetrachloride	3	<1.0	<4.0	<4.0	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroform	30	1.9	2.3	3.5	3.0	4.1	3.2	2.7	3.7	NA*
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	14.2	<4.0	<4.0	NA*
cis-1,2-Dichloroethene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Hexachloro-1,3-butadiene	1	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NA*
Methylene Chloride	5	<4.0	7.2	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Tetrachloroethene	5	5.0	4.8	6.6	1.8	3.1	3.0	7.1	4.2	30.6
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
trans-1,2-Dichloroethene	100	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<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 Risk Limits 5/09	MW-15 05/19/11	MW-15 03/01/11	MW-15 11/18/10	MW-15 08/18/10	MW-15 05/12/10	MW-15 02/22/10	MW-15 11/16/09	MW-15 10/01/09	MW-15 12/10/08
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	<1.0	<1.0	2.0	<1.0	1.5	3.3	6.4	6.4	NA*
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichloropropane	40	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloropropane	5	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	5.1	<4.0	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Acetone	700	<25.0	<25.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromoform	40	<4.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	NA*
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Carbon tetrachloride	3	<1.0	<4.0	<4.0	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroform	30	2.8	1.2	1.8	<1.0	1.3	1.4	2.2	2.2	NA*
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
cis-1,2-Dichloroethene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Hexachloro-1,3-butadiene	1	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NA*
Methylene Chloride	5	<4.0	6.4	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Tetrachloroethene	5	<1.0	<1.0	3.3	1.3	2.8	5.7	9.5	15.7	104
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
trans-1,2-Dichloroethene	100	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<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 Risk Limits 5/09	MW-16 05/19/11	MW-16 03/01/11	MW-16 11/18/10	MW-16 08/18/10	MW-16 05/12/10	MW-16 02/22/10	MW-16 11/16/09	MW-16 10/01/09	MW-16 12/03/08
1,1,1,2-Tetrachloroethane	70	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,1,1-Trichloroethane	9000	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,1,2,2-Tetrachloroethane	2	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,1,2-Trichloroethane	3	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	43.6	23.0	127	63.8	39.3	261	1,390	779	NA*
1,1-Dichloroethane	70	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,1-Dichloroethene	6	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	<1.0
1,1-Dichloropropene	NL	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2,3-Trichlorobenzene	NL	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2,3-Trichloropropane	40	<8.0	<8.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2,4-Trichlorobenzene	NL	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2,4-Trimethylbenzene	NL	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2-Dibromo-3-chloropropane	NL	<8.0	<8.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
1,2-Dibromoethane (EDB)	.004	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2-Dichlorobenzene	600	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2-Dichloroethane	4	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2-Dichloropropane	5	<8.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,3,5-Trimethylbenzene	100	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,3-Dichlorobenzene	NL	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,3-Dichloropropane	NL	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,4-Dichlorobenzene	10	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
2,2-Dichloropropane	NL	<8.0	<8.0	<20.0	<20.0	<40.0	<200	<1000	<10.0	NA*
2-Butanone (MEK)	4000	<8.0	<8.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
2-Chlorotoluene	NL	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
4-Chlorotoluene	NL	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<8.0	<8.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Acetone	700	<50.0	<50.0	<50.0	<50.0	<100	<500	<2500	<100	NA*
Allyl chloride	30	<8.0	<8.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Benzene	2	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Bromobenzene	NL	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Bromochloromethane	NL	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Bromodichloromethane	6	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Bromoform	40	<8.0	<16.0	<40.0	<40.0	<80.0	<400	<2000	<80.0	NA*
Bromomethane	10	<8.0	<20.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Carbon tetrachloride	3	<2.0	<8.0	<20.0	<20.0	<40.0	<200	<1000	<10.0	NA*
Chlorobenzene	100	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Chloroethane	300	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Chloroform	30	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Chloromethane	NL	<8.0	<8.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
cis-1,2-Dichloroethene	50	4.1	2.6	12.6	<5.0	<10.0	<50.0	<250	24.0	133
cis-1,3-Dichloropropene	NL	<8.0	<8.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Dibromochloromethane	10	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Dibromomethane	NL	<8.0	<8.0	<20.0	<20.0	<40.0	<200	<250	<10.0	NA*
Dichlorodifluoromethane	1000	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Dichlorofluoromethane	NL	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Diethyl ether (Ethyl ether)	1000	<8.0	<8.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Ethylbenzene	700	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Hexachloro-1,3-butadiene	1	<10.0	<8.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Isopropylbenzene (Cumene)	300	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
m&p-Xylene	NL	<4.0	<4.0	<10.0	<10.0	<20.0	<100	<500	<20.0	NA*
Methylene Chloride	5	<8.0	<8.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Methyl-tert-butyl ether	70	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Naphthalene	300	<8.0	<8.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
n-Butylbenzene	NL	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
n-Propylbenzene	NL	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
o-Xylene	NL	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
p-Isopropyltoluene	NL	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
sec-Butylbenzene	NL	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Styrene	NL	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
tert-Butylbenzene	NL	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Tetrachloroethene	5	1310	322	2120	696	815	4,390	21,000	6,890	14,100
Tetrahydrofuran	100	<20.0	<20.0	<50.0	<50.0	<100	<500	<2500	<100	NA*
Toluene	1000	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
trans-1,2-Dichloroethene	100	<8.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	<1.0
trans-1,3-Dichloropropene	NL	<8.0	<8.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Trichloroethene	5	2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	35.0
Trichlorofluoromethane	2000	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Vinyl chloride	0.2	<0.80	<0.80	<2.0	<2.0	<4.0	<20.0	<100	<4.0	<0.40
Xylene (Total)	10000	<6.0	<6.0	<15.0	<15.0	<30.0	<150	<750	<30.0	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 Collected Date and Time	MDH Health Risk Limits 5/09	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17
		05/19/11	03/01/11	11/18/10	08/18/10	05/12/10	02/22/10	11/16/09	10/01/09	12/03/08
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	15.8	21.6	25.1	25.4	46.8	76.2	199	249	NA*
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	<5.0
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2,3-Trichloropropane	40	<4.0	<4.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2-Dichloropropane	5	<4.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<20.0	<20.0	<20.0	<2.0	NA*
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Acetone	700	<25.0	<25.0	<10.0	<10.0	<50.0	<50.0	<50.0	<20.0	NA*
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Benzene	2	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Bromoform	40	<4.0	<8.0	<8.0	<8.0	<40.0	<40.0	<40.0	<16.0	NA*
Bromomethane	10	<4.0	<10.0	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Carbon tetrachloride	3	<1.0	<4.0	<4.0	<4.0	<20.0	<20.0	<20.0	<2.0	NA*
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Chloroform	30	1.1	1.4	1.8	2.5	<5.0	<5.0	<5.0	2.4	NA*
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
cis-1,2-Dichloroethene	50	1.0	1.8	2.2	2.4	<5.0	5.4	7.9	4.8	<5.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<20.0	<20.0	<5.0	<2.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Hexachloro-1,3-butadiene	1	<5.0	<4.0	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<10.0	<10.0	<10.0	<4.0	NA*
Methylene Chloride	5	<4.0	6.1	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Tetrachloroethene	5	109	145	209	174	412	639	1,100	803	363
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<50.0	<50.0	<50.0	<20.0	NA*
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
trans-1,2-Dichloroethene	100	<4.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	<5.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	<5.0
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<0.40	<2.0	<2.0	<2.0	<0.80	<2.0
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<15.0	<15.0	<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 Risk Limits 5/09	MW-18 05/19/11	MW-18 03/01/11	MW-18 11/18/10	MW-18 08/18/10	MW-18 05/12/10	MW-18 02/22/10	MW-18 11/16/09	MW-18 10/01/09	MW-18 12/03/08
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	<1.0	<1.0	<1.0	<1.0	<1.0	2.0	<1.0	2.7	NA*
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichloropropane	40	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloropropane	5	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Acetone	700	<25.0	<25.0	<10.0	<10.0	<10.0	12.2	<10.0	<10.0	NA*
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromoform	40	<4.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	NA*
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Carbon tetrachloride	3	<1.0	<4.0	<4.0	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroform	30	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
cis-1,2-Dichloroethene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Hexachloro-1,3-butadiene	1	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NA*
Methylene Chloride	5	<4.0	7.2	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Tetrachloroethene	5	3.6	4.8	8.6	8.4	26.0	96.8	130	250	257
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
trans-1,2-Dichloroethene	100	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	2.1	2.6	<2.0
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.80
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<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 Risk Limits 5/09	MW-19 05/19/11	MW-19 03/01/11	MW-19 11/18/10	MW-19 08/18/10	MW-19 05/12/10	MW-19 02/23/10	MW-19 11/16/09	MW-19 09/24/09	MW-19 12/03/08
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.9	2.4	NA*
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichloropropane	40	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloropropane	5	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	5.5	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Acetone	700	<25.0	<25.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromoform	40	<4.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	NA*
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Carbon tetrachloride	3	<1.0	<4.0	<4.0	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroform	30	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	10.4	<4.0	<4.0	NA*
cis-1,2-Dichloroethene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Hexachloro-1,3-butadiene	1	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NA*
Methylene Chloride	5	<4.0	5.2	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Tetrachloroethene	5	4.7	4.8	4.8	4.2	7.2	12.9	13.6	17.4	2.4
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
trans-1,2-Dichloroethene	100	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<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 Collected Date and Time	MDH Health Risk Limits 5/09	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20
		05/19/11	03/01/11	11/18/10	08/18/10	05/12/10	02/23/10	11/16/09	10/01/09	12/10/08
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	2.3	8.6	2.7	2.8	11.2	20.9	37.4	33.5	NA*
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	<5.0
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,2,3-Trichloropropane	40	<4.0	<4.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,2-Dichloropropane	5	<4.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<8.0	<2.0	<8.0	<1.0	NA*
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
Acetone	700	<25.0	<25.0	<10.0	<10.0	<20.0	<20.0	<20.0	<10.0	NA*
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
Benzene	2	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Bromoform	40	<4.0	<8.0	<8.0	<8.0	<16.0	<16.0	<16.0	<8.0	NA*
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
Carbon tetrachloride	3	<1.0	<4.0	<4.0	<4.0	<8.0	<2.0	<8.0	<1.0	NA*
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Chloroform	30	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<8.0	8.6	<8.0	<4.0	NA*
cis-1,2-Dichloroethene	50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	<5.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<8.0	<2.0	<2.0	<1.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Hexachloro-1,3-butadiene	1	<5.0	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<4.0	<4.0	<4.0	<2.0	NA*
Methylene Chloride	5	<4.0	5.2	<4.0	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Tetrachloroethene	5	16.8	211	50.9	74.7	194	402	307	713	599
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<20.0	36.1	<20.0	<10.0	NA*
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
trans-1,2-Dichloroethene	100	<4.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	<5.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	2.9	<2.0	<2.0	<1.0	<5.0
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<0.40	<0.80	<0.80	<0.80	<0.40	<2.0
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<6.0	<6.0	<6.0	<3.0	NA*

Notes:

NL: No Limit

NA*: Not Analyzed

1,620 Parameter detected above MDH Health Risk 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	DPE-1	DPE-1	DPE-2	DPE-2	DPE-3	DPE-3	DPE-4	DPE-4	DPE-5	DPE-5
Collected Date	09/28/2009	12/10/2008	09/28/2009	12/10/2008	09/28/200	12/10/2008	09/28/2009	12/10/2008	12/10/2008	09/24/2009
	12:52	13:50	14:22	11:45	9 15:25	10:57	10:13	11:20	16:45	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	09/24/2009	12/10/2008	09/24/2009	12/10/2008	09/24/2009	10/01/2009	12/03/2008
	14:29	04:30	13:15	05:00	09:30	05:30	04:00	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	12/10/2008	10/01/2009	12/03/2008	10/01/2009	12/03/2008	10/01/2009	12/03/2008
	04:20	12:15	04:25	12:35	05:20	13:10	05:46	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	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-14	2/23/2010	18.51	1693	7.54	186	2.8	NR
MW-14	5/12/2010	18.65	1539	7.5	379	5.2	NR
MW-14	8/18/2010	19.16	1088	8.24	285	5.51	NR
MW-14	11/18/2010	19.54	1137	6.95	-42	3.49	NR
MW-14	3/1/2011	18.9	996	6.2	4.3	1.34	NR
MW-14	5/19/2011	19.38	984	7.61	-19.1	2.57	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-15	2/22/2010	19.5	1506	7.82	916	4.27	NR
MW-15	5/12/2010	18.56	1708	7.37	84.9	6.97	NR
MW-15	8/18/2010	21.3	1593	10.6	166	6.04	NR
MW-15	11/18/2010	19.7	1446	6.14	25.8	4.86	NR
MW-15	3/1/2011	19.6	936	7.41	16.3	2.19	NR
MW-15	5/19/2011	15.4	1314	8.08	-42	2.91	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-16	2/22/2010	18.54	3238	7.31	115	4.17	NR
MW-16	5/12/2010	18.52	3240	7.46	209	6.29	NR
MW-16	8/18/2010	19.21	2695	10.3	49	6.26	NR
MW-16	11/18/2010	19.19	2935	7.61	-71	3.54	NR
MW-16	3/1/2011	18.93	1862	7.22	-23	1.94	NR
MW-16	5/19/2011	19.2	2476	7.76	-26	2.54	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-17	2/22/2010	18.25	16.08	7.66	-163	2.02	NR
MW-17	5/12/2010	18.05	1707	7.21	-82	1.96	NR
MW-17	8/18/2010	18.29	1759	10.4	15	3.51	NR
MW-17	11/18/2010	18.47	2102	7.43	-62	2.23	NR
MW-17	3/1/2011	18.5	1425	7.21	-76	1.21	NR
MW-17	5/19/2011	18.6	1371	7.87	-31	0.77	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-18	2/22/2010	17.7	2061	7.41	-244	1.19	NR
MW-18	5/12/2010	18.11	1992	6.98	-122	2.21	NR
MW-18	8/18/2010	17.3	1876	10.3	-69	0.69	NR
MW-18	11/18/2010	17.34	1640	7.51	-66	2.7	NR
MW-18	3/1/2011	17.4	1845	6.94	-46	0.61	NR
MW-18	5/19/2011	17.5	1949	7.41	-8.5	0.91	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)
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-19	2/23/2010	15.81	4277	6.88	130	5.42	NR
MW-19	5/12/2010	6.4	8955	6.25	332.2	43.55	NR
MW-19	8/18/2010	17.28	3147	6.44	157	6.61	NR
MW-19	11/18/2010	16.99	4653	6.74	-25	3.71	NR
MW-19	3/1/2011	17.8	3992	6.77	30.8	2.81	NR
MW-19	5/19/2011	16.9	3750	7.05	14	2.61	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
MW-20	2/23/2010	16.82	4720	7.23	322	5.22	NR
MW-20	5/12/2010	17.96	2410	7.16	276	7.83	NR
MW-20	8/18/2010	18.3	4559	10.1	182	8	NR
MW-20	11/18/2010	18.39	4497	7.44	-62	3.88	NR
MW-20	3/1/2011	16.6	3505	6.42	9.6	2.43	NR
MW-20	5/19/2011	18.5	3788	7.27	7.2	2.17	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-1	2/22/2010	17.9	1152	6.23	255.6	8.16	NR
DPE-1	5/13/2010	18.4	2428	6.41	248	8.05	NR
DPE-1	8/18/2010	19.3	2242	10.4	286	5.54	NR
DPE-1	12/23/2010	18.61	1982	5.96	-4.7	12.57	10.1
DPE-1	3/1/2011	18.2	990	7.6	14.2	4.02	6.4
DPE-1	5/19/2011	18.9	1677	8.42	-59	4.17	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-2	2/22/2010	17.5	2751	7.75	283	4.57	NR
DPE-2	5/13/2010	18.1	2900	7.25	268	5.59	NR
DPE-2	8/18/2010	18.7	4401	10.4	258	5.07	NR
DPE-2	12/23/2010	17.6	962	7.09	-42	11.6	2.8
DPE-2	3/1/2011	18.6	1986	7.21	118	3.16	15.1
DPE-2	5/19/2011	18.4	1972	8	-38	2.75	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-3	2/22/2010	15.4	4707	7.9	310	7.59	NR
DPE-3	5/13/2010	17.1	4484	7.62	270	7.36	NR
DPE-3	8/18/2010	18.4	4992	10.5	277	6.31	NR
DPE-3	12/23/2010	16.2	5922	7.15	17	16.23	28.2
DPE-3	3/1/2011	18.8	6621	7.19	-0.6	2.01	23.5
DPE-3	5/19/2011	17.2	4847	8.12	-44	5.76	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-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
DPE-4	2/22/2010	17.4	2899	7.11	198	7.64	NR
DPE-4	5/13/2010	17.6	3362	7.88	242	8.61	NR
DPE-4	8/18/2010	18.3	3296	10.6	252	6.9	NR
DPE-4	12/23/2010	17.1	3227	7.46	3.9	NR	23.1
DPE-4	3/1/2011	18.8	874	7.18	144	1.9	11.5
DPE-4	5/19/2011	18.8	2168	8.21	-49	4.37	NR
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-5	2/22/2010	16.7	3271	7.48	231	6.3	NR
DPE-5	5/13/2010	17.1	3115	7.92	274	7.54	NR
DPE-5	8/18/2010	18.3	2997	10.5	241	3.65	NR
DPE-5	12/23/2010	17.4	2216	7.12	-13	10.3	17.7
DPE-5	3/1/2011	18.5	776	7.21	22	2.87	0
DPE-5	5/19/2011	18.6	1008	8.15	-36	2.91	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-6	2/22/2010	17.9	1248	7.81	213	5.42	NR
DPE-6	5/13/2010	18.4	1022	8.18	272	5.86	NR
DPE-6	8/18/2010	19.1	559	11.1	251	6.67	NR
DPE-6	11/18/2010	18.39	4497	7.44	-62	3.88	NR
DPE-6	12/23/2010	17.2	3341	7.11	-12	10.9	17.7
DPE-6	3/1/2011	17.9	1048	7.09	-16	2.04	6.2
DPE-6	5/19/2011	18.4	1162	8.22	-44	2.61	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-7	2/22/2010	18.1	1354	7.84	209	5.31	NR
DPE-7	5/13/2010	18.5	1240	7.93	272	5.19	NR
DPE-7	8/18/2010	19.7	1012	11.1	276	4.13	NR
DPE-7	11/18/2010	19.19	2535	7.61	-71	3.54	NR
DPE-7	12/23/2010	17.3	5901	7.19	-18	9.6	10.7
DPE-7	3/1/2011	18.5	996	7.01	-8	1.96	0
DPE-7	5/19/2011	18.2	2472	8.09	-43	2.97	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-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	16.78	3604	7.2	226	5.19	NR
DPE-8	2/22/2010	16.2	2661	7.82	227	7.15	NR
DPE-8	5/13/2010	17.8	2236	8.03	267	9.06	NR
DPE-8	8/18/2010	17.6	3115	11	262	6.68	NR
DPE-8	11/18/2010	NR	NR	NR	NR	NR	NR
DPE-8	12/23/2010	17.3	4162	NR	NR	NR	11.4
DPE-8	3/1/2011	18.4	872	6.92	21	1.87	0.8
DPE-8	5/19/2011	18.4	3649	7.21	1.7	2.22	NR

Notes:

NR - 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	Days per Period	Flow Rate				DPE Air Flow (scf)	Pump Inlet Vacuum (in. Hg)	Post-MS-2 Vacuum (in. Hg)	Post-MS-1 Vacuum (in. Hg)	DPE Well/Pre-MS-1 Vacuum (in. Hg)		Pre-Manifold Vacuum (in. Hg)	DPE Well Casing Vacuum (in. H ₂ O)	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 ₂ O)	Analog	Field				
6/29/2009	1640	DPE-1	88.0	88.0	NA	25	20.9	0.010	134.3	6,000	25.29	NA	NR	24.95	24.5	24.0	NR	0	0	229	200	NR	0	0	
9/4/2009	805	DPE-1	957.0	869.0	36.2	25	24.3	0.011	109.5	1,208,000	23.32	NA	9.4	9.66	9.8	9.1	86	0.02	0	307	310	34	100	0	DPE Pump Screen plugged
9/4/2009	946	DPE-1	957.0	0.0	0.0	40	36.1	0.017	120.5	1,209,000	21.01	NA	21.0	20.43	21.0	20.0	149	0	0	210	248	>4000	100	0	DPE & AS exhaust sampled
9/4/2009	1135	DPE-1	959.0	2.0	0.1	25	27.3	0.013	117.2	1,212,000	22.99	NA	22.5	22.70	22.5	22.5	>150	0	0	275	270	>4000	30	0	1 micron MS filter installed
10/15/2009	1120	DPE-1	1899.0	940.0	39.2	35	31.6	0.015	135.9	2,658,000	23.00	NA	22.5	22.22	22.5	22.5	>150	0	0	283	270	ND	20	0	Exhaust sampled
10/16/2009	621	DPE-1	1911.0	12.0	0.5	35	32.4	0.015	142.2	2,684,000	23.14	NA	22.5	22.35	22.5	22.0	>150	NR	0	291	299	ND	100	0	6-hr composite air sample collected
10/23/2009	922	DPE-3	1924.0	13.0	0.5	70	70.6	0.033	143.0	2,715,000	15.23	NA	14.1	14.58	14.0	13.8	90	0	NR	199	190	ND	100	0	
11/17/2009	1800	DPE-1	2361.0	437.0	18.2	30	28.6	0.013	144.2	3,992,000	24.02	NA	23.5	23.01	23.5	23.0	>150	0.00	0	301	300	>4000	100	0	6-hr composite air sample collected
12/17/2009	907	DPE-5	2960.0	599.0	25.0	NR	62.1	0.029	177.8	6,218,000	19.53	NA	19.0	18.70	18.9	18.9	155	0.00	0	247	248	850	NR	0	6-hr composite air sample collected
12/28/2009	1300	DPE-2	3228.0	268.0	11.2	60	60.7	0.029	187.9	7,333,000	20.31	NA	17.2	17.21	17.20	17.2	122	0.00	0	266	268	720	NR	0	
1/14/2010	923	DPE-5	3568.0	340.0	14.2	100	97.8	0.046	201.1	8,769,000	15.45	NA	14.9	14.46	NR	14.9	98	0.00	0	182	156	NR	NR	0	6-hr composite air sample collected
1/27/2010	NR	DPE-7	3789.0	221.0	9.2	75	88.6	0.042	215.3	9,633,000	17.68	NA	18.0	16.87	16.00	16.0	68	0.00	0	156	165	NR	NR	0	
2/22/2010	800	DPE-8	4161.0	372.0	15.5	105	101.5	0.048	224.8	11,221,000	16.49	NA	15.5	15.33	14.50	14.5	91	0.00	0	215	219	ND	NR	0	6-hr composite air sample collected
3/9/2010	NR	DPE-8	4472.0	311.0	13.0	105	103.6	0.049	226.1	12,597,000	16.29	NA	15.8	15.64	15.10	14.8	NR	0.00	NR	160	161	NR	NR	0	Pump inlet screen removed; DPE oil changed
3/25/2010 ¹	742	DPE-2	4868.0	396.0	16.5	110	110.1	0.052	243.2	14,285,000	16.45	NA	16.1	15.66	15.10	14.9	165	0.02	0	251	248	105	100	0	6-hr composite air sample collected
4/16/2010	731	DPE-3	5308.0	440.0	18.3	72	72.7	0.034	218.0	16,587,000	20.00	18.5	18.5	19.21	18.00	18.0	130	0.03	0	255	251	17.5	100	0	6-hr composite air sample collected
5/12/2010	1330	DPE-5	5908.0	600.0	25.0	135	132.4	0.062	293.5	19,502,000	16.50	16.1	15.8	15.61	14.90	15.0	75	0.07	0	222	224	0.8	100	0	6-hr composite air sample collected
6/17/2010	1047	DPE-2	6768.0	860.0	35.8	35	36.9	0.017	146.6	22,356,000	22.43	22.5	22	21.38	21.00	21.0	210	0.08	0	287	276	8.5	100	0	6-hr composite air sample collected
7/26/2010	1100	DPE-8	7671.0	903.0	37.6	105	99.8	0.047	225.3	25,890,000	16.74	16.5	16.5	15.91	15.00	14.5	80	0.10	0	226	220	3.8	100	0	3-hr composite air sample collected due to flow controller malfunction
9/27/2010	1530	DPE-5	8222.0	551.0	23.0	135	122.7	0.058	257.6	28,334,000	15.75	15.0	15.0	14.93	14.00	14.0	90	0.02	0	211	210	>4000	100	0	30-minute composite air sample collected due to flow controller malfunction
10/18/2010	950	DPE-5	8662.0	440.0	18.3	130	128.3	0.061	275.4	30,379,000	16.06	15.1	15.1	15.31	15.00	15.0	100	0.00	0	200	198	ND	100	0	6-hr composite air sample collected
12/22/2010	1200	DPE-1	9378.0	716.0	29.8	50	51.5	0.024	219.8	37,039,000	22.95	NR	23.0	22.02	22.00	22.0	60	0.02	0	229	209	10.1	100	0	6-hr composite air sample collected
1/6/2011	800	DPE-1	9717.0	339.0	14.1	75	75.5	0.036	264.3	41,669,000	21.42	24.5	20.5	20.49	20.50	19.0	54	0.00	0	164	151	17.8	100	0	
1/20/2011	800	DPE-8	10034.0	317.0	13.2	120	119	0.056	252.2	44,097,000	15.88	15.0	15.0	15.12	NR	14.5	14	0.00	0	202	186	3.1	100	0	6-hr composite air sample collected
2/27/2011	1100	DPE-8	10969.0	935.0	39.0	100	103.6	0.049	257.7	48,884,000	17.96	18.0	16.5	17.07	16.50	16.5	84	0.00	0	224	218	0.8	100	0	6-hr composite air sample collected
3/7/2011	800	DPE-5	11014.0	45.0	1.9	115	117.8	0.056	271.7	49,157,000	17.02	NR	16.0	16.15	15.50	15.5	115	0.00	0	110	112	22.7	100	0	
3/18/2011	1330	DPE-1	11274.0	260.0	10.8	55	55	0.026	187.0	50,861,000	21.17	22.0	21.5	21.17	19.50	19.5	55	0.00	0	235	213	3.0	100	0	
3/23/2011	900	DPE-7	11277.0	3.0	0.1	75	72.7	0.034	188.6	50,872,000	18.45	18.5	17.0	17.44	16.00	16.5	30	0.00	0	209	185	8.6	100	0	6-hr composite air sample collected
4/22/2011	910	DPE-7	11995.0	718.0	29.9	75	72.7	0.034	191.4	53,741,000	18.62	18.5	17.5	17.70	17.00	17.0	29	0.02	0	240	250	5.4	100	0	6-hr composite air sample collected
5/3/2011	2100	DPE-5	12268.0	273.0	11.4	65	72.4	0.034	229.4	54,865,000	20.53	20.5	19.0	19.28	18.50	18.0	NR	0.00	0	165	168	NR	NR	NR	
5/5/2011	NR	DPE-4	12313.0	45.0	1.9	65	62.1	0.029	196.7	55,073,000	20.53	20.5	19.0	19.23	18.50	18.0	NR	0.00	0	155	149	NR	NR	NR	
5/19/2011	600	DPE-2	12645.0	332.0	13.8	40	40.9	0.019	165.5	56,604,000	22.57	22.5	22.0	21.34	19.30	19.0	125	0.00	0	234	239	7.1	100	0	6-hr composite air sample collected
6/16/2011	1200	DPE-1	13314.0	669.0	27.9	45	44	0.021	172.5	59,908,000	22.33	22.5	22.0	21.37	21.00	19.0	55	0.02	0	256	240	0.5	100	0	6-hr composite air sample collected

Notes:
 1: There was a typo when entering the DPE pump hours; therefore, this value was revised while entering the data from 4/16/10.
 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	11.09	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	12.85	12.2	16.0	330	NR	
2/22/2010	8:00	49	232	122,167	128,552	12.90	12.9	14.0	330	500	
3/9/2010	NR	50	255	131,361	137,839	12.91	12.9	14.0	330	NR	
3/25/2010	742	50	270	141,405	148,206	NR	12.9	15.0	330	500	
4/16/2010	731	50	287	154,622	161,857	12.85	12.9	14.0	330	500	
5/12/2010	1330	50	308	170,079	177,797	12.83	12.9	14.0	330	500	
6/17/2010	1047	50	337	191,958	200,398	13.90	12.9	14.0	330	500	
7/26/2010	1100	50	371	217,314	226,504	12.94	13.1	15.0	330	500	
9/27/2010	1030	50	389	228,896	240,247	13.19	13.2	14.0	350	514	
10/18/2010	950	50	408	243,396	255,417	12.70	12.9	14.0	350	514	
12/22/2010	1200	50	445	270,572	283,957	12.85	12.9	14.0	450	514	
1/6/2011	NR	50	484	292,343	306,476	12.68	12.7	14.0	450	NR	
1/20/2011	800	50	504	314,178	328,912	12.84	12.8	14.0	460	514	
2/27/2011	1100	50	547	342,283	357,774	12.77	12.8	14.0	470	514	
3/7/2011	800	170	549	343,924	359,443	12.79	12.7	14.0	470	514	
3/18/2011	1330	170	562	350,182	369,445	13.30	12.5	17.0	470	514	
3/23/2011	900	171	562	350,324	369,603	12.60	12.6	20.0	470	514	
4/22/2011 ¹	910	171	608	461,499	373,802	MF	MF	18.0	470	514	
5/3/2011	2100	171	625	462,745	MF	12.80	12.8	16.0	480	NR	
5/5/2011	NR	171	628	464,860	2,307	12.66	12.3	16.0	480	NR	
5/19/2011	600	171	650	480,836	18,817	12.50	12.6	16.0	480	514	
6/16/2011	1200	171	691	487,852	27,076	MF	MF	16.0	480	514	

Notes:

NR: Not recorded.

NP: Not pumping

MF: Meter Failure

F:\PROJECTS\Crc-City of Rochester\data tables\ system OM data

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. H₂O)	AS Exhaust Pressure (in. H₂O)	AS Discharge Pump Pressure (psi)	AS Exhaust PID (ppm)	Comments
9/27/2010	1030	2578	192	18	7	25	ND	
10/18/2010	950	2742	204	24	5	18	ND	
12/22/2010	1200	3049	226	18	9	24	ND	
1/6/2011	800	NR	244	18	7	25	ND	
1/20/2011	800	3524	263	18	6	24	ND	
2/27/2011	1100	3867	288	17	9	26	ND	
3/7/2011	800	3885	289	18	9	25	ND	
3/18/2011	1330	4060	298	17	10	25	ND	
3/23/2011	900	4060	298	17	8	26	ND	
4/22/2011	910	4408	325	18	9	25	ND	
5/3/2011	2100	4540	335	18	NR	25	NR	
5/5/2011	NR	4564	336	18	NR	25	NR	
5/19/2011	600	4734	349	17	11	26	ND	
6/16/2011	1200	5140	374	17	NR	25	26	

Notes:

NR: Not recorded.

NP: Not pumping.

ND: Not detected.

Attachment A - Table 4

DPE Well Casing Vacuum Data (in. H₂O)
 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
2/22/2010	48	200	128	99	90	108	70	91
3/25/2010	51	168	125	140	86	120	64	94
4/16/2010	48	210	130	130	98	88	55	NA
5/12/2010	51	195	127	87	75	148	68	86
6/17/2010	50	210	125	88	79	115	71	81
7/26/10*	10	158	126	148	100	115	70	80
9/27/2010	52	200	130	125	90	100	40	90
10/18/2010	60	151	126	85	100	110	31	60
12/22/2010	60	150	170	77	110	118	185	90
1/6/2011	54	149	120	148	75	98	30	70
1/20/2011	62	145	120	130	120	145	30	70
2/27/2011	35	145	98	64	74	138	32	84
3/7/2011	55	148	135	70	115	99	30	74
3/18/2011	55	148	150	130	115	100	35	80
3/23/2011	58	145	135	120	120	90	30	80
4/22/2011	68	150	125	128	120	100	29	80
5/19/2011	40	125	140	80	75	85	30	75
6/16/2011	55	200	125	130	120	100	40	85

Notes:

Bold indicates the current operating extraction well.

Attachment 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	37.0	45.0	18.00
DPE-1	16-Nov-09	4,000.0	56.3	20.28
DPE-1	17-Dec-09	4,000.0	62.1	19.53
DPE-1	28-Dec-09	1,120.0	NR	NR
DPE-1	14-Jan-10	NR	NR	NR
DPE-1	22-Feb-10	914.0	35.0	22.5
DPE-1	25-Mar-10	868.0	40.0	23
DPE-1	16-Apr-10	287.0	40.0	22
DPE-1	12-May-10	9.9	45.0	23.5
DPE-1	17-Jun-10	32.1	30.0	22
DPE-1*	26-Jul-10	1.4	40.0	19
DPE-1	27-Sep-10	>1750	82.0	18.23
DPE-1	18-Oct-10	25.0	40.0	20
DPE-1	22-Dec-10	10.1	55.0	22.95
DPE-1	6-Jan-11	17.8	82.0	20.2
DPE-1	20-Jan-11	12.1	55.0	20.9
DPE-1	27-Feb-11	6.4	61.0	20.66
DPE-1	7-Mar-11	33.4	50.0	21.23
DPE-1	18-Mar-11	3.0	57.0	21.1
DPE-1	23-Mar-11	1.3	40.0	21
DPE-1	22-Apr-11	17.5	39.0	21.26
DPE-1	19-May-11	4.4	30.0	21.5
DPE-1	16-Jun-11	27.0	37.0	22
DPE-2	27-Oct-09	50.6	40.0	19.00
DPE-2	16-Nov-09	0.0	39.0	22.13
DPE-2	17-Dec-09	11.8	NR	NR
DPE-2	28-Dec-09	720.0	NR	NR
DPE-2	14-Jan-10	NR	NR	NR
DPE-2	22-Feb-10	27.1	45.0	21.5
DPE-2	25-Mar-10	10.5	50.0	22
DPE-2	16-Apr-10	6.0	50.0	21
DPE-2	12-May-10	10.1	55.0	22
DPE-2	17-Jun-10	8.5	35.0	20
DPE-2	26-Jul-10	0.6	40.0	22
DPE-2	27-Sep-10	>4000	52.4	20.98
DPE-2	18-Oct-10	15.7	55.0	19
DPE-2	22-Dec-10	2.8	70.0	22.14
DPE-2	6-Jan-11	23.6	76.0	20.2
DPE-2	20-Jan-11	2.6	55.0	21.5
DPE-2	27-Feb-11	15.1	64.0	20.8
DPE-2	7-Mar-11	19.8	50.0	21.34
DPE-2	18-Mar-11	2.1	55.0	21.2
DPE-2	23-Mar-11	1.2	40.0	21
DPE-2	22-Apr-11	2.0	39.0	21.3
DPE-2	19-May-11	7.1	45.0	21
DPE-2	16-Jun-11	21.0	38.1	22.5

Attachment 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-3	27-Oct-09	15.7	73.0	15.00
DPE-3	16-Nov-09	1,600.0	65.0	18.94
DPE-3	17-Dec-09	57.5	NR	NR
DPE-3	28-Dec-09	22.8	NR	NR
DPE-3	14-Jan-10	NR	NR	NR
DPE-3	22-Feb-10	43.4	70.0	19.5
DPE-3	25-Mar-10	31.4	70.0	19
DPE-3	16-Apr-10	17.5	75.0	18
DPE-3	12-May-10	23.7	80.0	20
DPE-3	17-Jun-10	18.1	55.0	18
DPE-3	26-Jul-10	0.0	65.0	17.5
DPE-3	27-Sep-10	>3260	68.6	19.5
DPE-3	18-Oct-10	36.4	85.0	17.5
DPE-3	22-Dec-10	28.2	78.0	21.75
DPE-3	6-Jan-11	23.9	109.0	18.5
DPE-3	20-Jan-11	4.5	77.0	18.6
DPE-3	27-Feb-11	23.3	82.0	18.8
DPE-3	7-Mar-11	25.6	55.0	20.1
DPE-3	18-Mar-11	8.4	65.0	18.7
DPE-3	23-Mar-11	5.8	65.0	18.5
DPE-3	22-Apr-11	31.3	66.0	18.5
DPE-3	19-May-11	8.0	65.0	19
DPE-3	16-Jun-11	34.0	60.1	20
DPE-4	27-Oct-09	23.9	35.0	22.00
DPE-4	16-Nov-09	3.7	28.6	23.94
DPE-4	17-Dec-09	4,000.0	NR	NR
DPE-4	28-Dec-09	3.4	NR	NR
DPE-4	14-Jan-10	NR	NR	NR
DPE-4	22-Feb-10	13.5	60.0	20.5
DPE-4	25-Mar-10	55.3	55.0	22
DPE-4	16-Apr-10	4,000.0	70.0	18
DPE-4	12-May-10	7.0	70.0	21
DPE-4	17-Jun-10	0.0	45.0	21
DPE-4	26-Jul-10	19.0	60.0	20
DPE-4	27-Sep-10	>2300	58.3	20.28
DPE-4	18-Oct-10	ND	64.0	17.5
DPE-4	22-Dec-10	23.1	80.0	21.25
DPE-4	6-Jan-11	13.8	102.0	19
DPE-4	20-Jan-11	3.2	72.0	19
DPE-4	27-Feb-11	11.5	67.0	20.2
DPE-4	7-Mar-11	27.9	60.0	20.45
DPE-4	18-Mar-11	5.9	62.0	19
DPE-4	23-Mar-11	6.2	60.0	19.5
DPE-4	22-Apr-11	3.5	60.0	19.5
DPE-4	19-May-11	15.6	60.0	19.5
DPE-4	16-Jun-11	49.2	52.4	21

Attachment 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-5	27-Oct-09	3.8	40.0	22.00
DPE-5	16-Nov-09	4,000.0	30.4	23.88
DPE-5	17-Dec-09	850.0	NR	NR
DPE-5	28-Dec-09	4,000.0	NR	NR
DPE-5	14-Jan-10	NR	NR	NR
DPE-5	22-Feb-10	ND	100.0	16
DPE-5	25-Mar-10	5.7	75.0	18
DPE-5	16-Apr-10	4,000.0	120.0	14.5
DPE-5	12-May-10	0.8	115.0	18
DPE-5	17-Jun-10	0.0	75.0	16
DPE-5	26-Jul-10	5.7	100.0	15
DPE-5	27-Sep-10	>4000	119.0	15.78
DPE-5	18-Oct-10	ND	125.0	15
DPE-5	22-Dec-10	17.7	150.0	15.8
DPE-5	6-Jan-11	1.5	130.0	17
DPE-5	20-Jan-11	12.8	109.0	15.5
DPE-5	27-Feb-11	0.0	104.0	16.9
DPE-5	7-Mar-11	22.7	117.0	16.15
DPE-5	18-Mar-11	3.3	95.0	15.8
DPE-5	23-Mar-11	4.1	90.0	16.5
DPE-5	22-Apr-11	3.8	96.0	15.9
DPE-5	19-May-11	11.2	85.0	16.5
DPE-5	16-Jun-11	50.8	72.7	18
DPE-6	27-Oct-09	ND	55.0	17.00
DPE-6	16-Nov-09	4,000.0	66.9	18.78
DPE-6	17-Dec-09	1,680.0	NR	NR
DPE-6	28-Dec-09	901.0	NR	NR
DPE-6	14-Jan-10	NR	NR	NR
DPE-6	22-Feb-10	7.1	65.0	19
DPE-6	25-Mar-10	0.0	70.0	20
DPE-6	16-Apr-10	4,000.0	75.0	18.1
DPE-6	12-May-10	0.0	90.0	19
DPE-6	17-Jun-10	0.0	50.0	19
DPE-6	26-Jul-10	4.4	60.0	18
DPE-6	27-Sep-10	>4000	92.0	18.08
DPE-6	18-Oct-10	10.2	80.0	18.5
DPE-6	22-Dec-10	11.4	105.0	19.8
DPE-6	6-Jan-11	2.8	110.0	19
DPE-6	20-Jan-11	6.3	108.0	18
DPE-6	27-Feb-11	6.2	100.0	18.1
DPE-6	7-Mar-11	16.5	75.0	19.29
DPE-6	18-Mar-11	2.8	65.0	19
DPE-6	23-Mar-11	6.7	63.0	NR
DPE-6	22-Apr-11	5.6	57.0	19.6
DPE-6	19-May-11	7.6	60.0	19.5
DPE-6	16-Jun-11	48.2	53.5	19

Attachment 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-7	27-Oct-09	ND	60.0	16.00
DPE-7	16-Nov-09	4,000.0	75.5	17.70
DPE-7	17-Dec-09	490.0	NR	NR
DPE-7	28-Dec-09	905.0	NR	NR
DPE-7	14-Jan-10	NR	NR	NR
DPE-7	22-Feb-10	ND	80.0	17.5
DPE-7	25-Mar-10	0.0	90.0	17
DPE-7	16-Apr-10	4,000.0	115.0	11
DPE-7	12-May-10	0.0	110.0	18
DPE-7	17-Jun-10	0.0	70.0	18
DPE-7	26-Jul-10	0.1	75.0	17
DPE-7	27-Sep-10	>4000	96.7	17.18
DPE-7	18-Oct-10	ND	105.0	15.5
DPE-7	22-Dec-10	10.7	65.0	22
DPE-7	6-Jan-11	2.4	130.0	17.5
DPE-7	20-Jan-11	0.4	100.0	18.21
DPE-7	27-Feb-11	0.0	90.0	17.9
DPE-7	7-Mar-11	29.1	95.0	16.2
DPE-7	18-Mar-11	3.1	75.0	17
DPE-7	23-Mar-11	8.6	70.0	17.5
DPE-7	22-Apr-11	5.4	72.0	17.7
DPE-7	19-May-11	6.1	70.0	18
DPE-7	16-Jun-11	47.4	56.3	20
DPE-8	27-Oct-09	ND	45.0	22.00
DPE-8	16-Nov-09	4,000.0	29.3	23.87
DPE-8	17-Dec-09	559.0	NR	NR
DPE-8	28-Dec-09	595.0	NR	NR
DPE-8	14-Jan-10	NR	NR	NR
DPE-8	22-Feb-10	ND	100.0	16
DPE-8	25-Mar-10	4,000.0	105.0	16
DPE-8	16-Apr-10	4,000.0	NA	NA
DPE-8	12-May-10	0.0	130.0	16.5
DPE-8	17-Jun-10	0.0	85.0	14
DPE-8	26-Jul-10	3.8	105.0	14.5
DPE-8	27-Sep-10	>4000	125.5	15.91
DPE-8	18-Oct-10	ND	65.0	19.5
DPE-8	22-Dec-10	11.4	150.0	15.08
DPE-8	6-Jan-11	10.2	140.0	16
DPE-8	20-Jan-11	3.1	128.0	15.92
DPE-8	27-Feb-11	0.8	97.0	17.8
DPE-8	7-Mar-11	44.6	95.0	17.5
DPE-8	18-Mar-11	3.1	80.0	16
DPE-8	23-Mar-11	7.4	90.0	15.5
DPE-8	22-Apr-11	5.1	97.0	15.1
DPE-8	19-May-11	4.9	75.0	17
DPE-8	16-Jun-11	52.3	81.3	17

* - temporarily operating with DPE-8 because of vacuum issues

Attachment 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-1	22-Feb-10	21.9	12.22	9.68	6.3	21.9	0
DPE-1	25-Mar-10	21.9	15.72	6.18	4.0	20.9	1
DPE-1	16-Apr-10	21.9	15.88	6.02	3.9	20.34	1.56
DPE-1	12-May-10	21.9	16.48	5.42	3.5	21.8	0.1
DPE-1	17-Jun-10	21.9	16.62	5.28	3.4	NR	NR
DPE-1	18-Aug-10	21.9	16.8	5.1	3.3	22	-0.1
DPE-1	27-Sep-10	21.9	14.6	7.3	4.8	23.81	-1.91
DPE-1	18-Nov-10	21.9	14.99	6.91	4.5	NR	NR
DPE-1	22-Dec-10	21.9	15.72	6.18	4.0	21.8	0.1
DPE-1	6-Jan-11	21.9	14.04	7.86	5.1	21.8	0.1
DPE-1	20-Jan-11	21.9	16.8	5.1	3.3	21.9	0
DPE-1	28-Feb-11	21.9	15.33	6.57	4.3	21.98	-0.08
DPE-1	7-Mar-11	21.9	17.27	4.63	3.0	22	-0.1
DPE-1	18-Mar-11	21.9	17.8	4.1	2.7	21.6	0.3
DPE-1	23-Mar-11	21.9	15.92	5.98	3.9	22	-0.1
DPE-1	22-Apr-11	21.9	16.61	5.29	3.5	21.8	0.1
DPE-1	19-May-11	21.9	14.59	7.31	4.8	21.2	0.7
DPE-1	16-Jun-11	21.9	17.06	4.84	3.2	23.78	-1.88
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-2	22-Feb-10	20.5	14.19	6.31	4.1	20.5	0
DPE-2	25-Mar-10	20.5	15.5	5	3.3	20	0.5
DPE-2	16-Apr-10	20.5	16.31	4.19	2.7	20.2	0.3
DPE-2	12-May-10	20.5	16.31	4.19	2.7	20.3	0.2
DPE-2	17-Jun-10	20.5	17.09	3.41	2.2	NR	NR
DPE-2	18-Aug-10	20.5	17.58	2.92	1.9	20	0.5
DPE-2	27-Sep-10	20.5	14.92	5.58	3.6	20.5	0
DPE-2	18-Nov-10	20.5	14.79	5.71	3.7	NR	NR
DPE-2	22-Dec-10	20.5	15.72	4.78	3.1	20.3	0.2
DPE-2	6-Jan-11	20.5	14.42	6.08	4.0	20.6	-0.1
DPE-2	20-Jan-11	20.5	14.98	5.52	3.6	20.2	0.3
DPE-2	28-Feb-11	20.5	14.88	5.62	3.7	20	0.5
DPE-2	7-Mar-11	20.5	15.22	5.28	3.4	20.6	-0.1
DPE-2	18-Mar-11	20.5	15.41	5.09	3.3	20.6	-0.1
DPE-2	23-Mar-11	20.5	13.62	6.88	4.5	20.3	0.2
DPE-2	22-Apr-11	20.5	14.51	5.99	3.9	20.1	0.4
DPE-2	19-May-11	20.5	14.78	5.72	3.7	20.6	-0.1
DPE-2	16-Jun-11	20.5	15	5.5	3.6	20.25	0.25

Attachment 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-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-3	22-Feb-10	17.1	15.29	1.81	1.2	17.3	-0.2
DPE-3	25-Mar-10	17.1	15.68	1.42	0.9	18.3	-1.2
DPE-3	16-Apr-10	17.1	15.8	1.3	0.8	19.41	-2.31
DPE-3	12-May-10	17.1	16.26	0.84	0.5	17.2	-0.1
DPE-3	17-Jun-10	17.1	16.43	0.67	0.4	NR	NR
DPE-3	18-Aug-10	17.1	17.2	-0.1	-0.1	17	0.1
DPE-3	27-Sep-10	17.1	14.29	2.81	1.8	19.35	-2.25
DPE-3	18-Nov-10	17.1	14.62	2.48	1.6	NR	NR
DPE-3	22-Dec-10	17.1	15.62	1.48	1.0	17.1	0
DPE-3	6-Jan-11	17.1	14.5	2.6	1.7	17	0.1
DPE-3	20-Jan-11	17.1	14.99	2.11	1.4	17.3	-0.2
DPE-3	28-Feb-11	17.1	15.22	1.88	1.2	17.18	-0.08
DPE-3	7-Mar-11	17.1	15.2	1.9	1.2	17.2	-0.1
DPE-3	18-Mar-11	17.1	15.57	1.53	1.0	17.2	-0.1
DPE-3	23-Mar-11	17.1	13.88	3.22	2.1	17.2	-0.1
DPE-3	22-Apr-11	17.1	14.51	2.59	1.7	17.2	-0.1
DPE-3	19-May-11	17.1	14.96	2.14	1.4	17	0.1
DPE-3	16-Jun-11	17.1	15.83	1.27	0.8	19.2	-2.1
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-4	22-Feb-10	19.3	16.08	3.22	2.1	19.0	0.3
DPE-4	25-Mar-10	19.3	16.22	3.08	2.0	20.05	-0.75
DPE-4	16-Apr-10	19.3	16.21	3.09	2.0	20.10	-0.8
DPE-4	12-May-10	19.3	16.86	2.44	1.6	19.70	-0.4
DPE-4	17-Jun-10	19.3	16.83	2.47	1.6	NR	NR
DPE-4	18-Aug-10	19.3	16.74	2.56	1.7	19.60	-0.3
DPE-4	27-Sep-10	19.3	14.74	4.56	3.0	19.73	-0.43
DPE-4	18-Nov-10	19.3	14.93	4.37	2.9	NR	NR
DPE-4	22-Dec-10	19.3	14.89	4.41	2.9	19.20	0.1
DPE-4	6-Jan-11	19.3	14.61	4.69	3.1	19.10	0.2
DPE-4	20-Jan-11	19.3	15.15	4.15	2.7	19.00	0.3
DPE-4	28-Feb-11	19.3	15.3	4	2.6	19.2	0.1
DPE-4	7-Mar-11	19.3	15.62	3.68	2.4	19.6	-0.3
DPE-4	18-Mar-11	19.3	15.62	3.68	2.4	19.6	-0.3
DPE-4	23-Mar-11	19.3	14.04	5.26	3.4	19.2	0.1
DPE-4	22-Apr-11	19.3	14.64	4.66	3.0	19.6	-0.3
DPE-4	19-May-11	19.3	15.8	3.5	2.3	17.3	2
DPE-4	16-Jun-11	19.3	15.02	4.28	2.8	19.73	-0.43

Attachment 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-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-5	22-Feb-10	18.1	15.01	3.09	2.0	18.2	-0.1
DPE-5	25-Mar-10	18.1	16.42	1.68	1.1	18.7	-0.6
DPE-5	16-Apr-10	18.1	15.54	2.56	1.7	18.65	-0.55
DPE-5	12-May-10	18.1	15.98	2.12	1.4	18.1	0
DPE-5	17-Jun-10	18.1	17.21	0.89	0.6	NR	NR
DPE-5	18-Aug-10	18.1	16.55	1.55	1.0	18.2	-0.1
DPE-5	27-Sep-10	18.1	13.73	4.37	2.9	18.1	0
DPE-5	18-Nov-10	18.1	14.19	3.91	2.6	NR	NR
DPE-5	22-Dec-10	18.1	15.41	2.69	1.8	18.1	0
DPE-5	6-Jan-11	18.1	14.14	3.96	2.6	18.3	-0.2
DPE-5	20-Jan-11	18.1	15.38	2.72	1.8	18	0.1
DPE-5	28-Feb-11	18.1	15.38	2.72	1.8	17.98	0.12
DPE-5	7-Mar-11	18.1	16.81	1.29	0.8	17.9	0.2
DPE-5	18-Mar-11	18.1	15.03	3.07	2.0	18	0.1
DPE-5	23-Mar-11	18.1	13.08	5.02	3.3	18.2	-0.1
DPE-5	22-Apr-11	18.1	16.26	1.84	1.2	18.3	-0.2
DPE-5	19-May-11	18.1	14.32	3.78	2.5	18.4	-0.3
DPE-5	16-Jun-11	18.1	14.73	3.37	2.2	18.44	-0.34
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-6	22-Feb-10	19.5	15.61	3.89	2.5	19.1	0.4
DPE-6	25-Mar-10	19.5	15.24	4.26	2.8	19.5	0
DPE-6	16-Apr-10	19.5	15.48	4.02	2.6	19.4	0.1
DPE-6	12-May-10	19.5	16.02	3.48	2.3	19.4	0.1
DPE-6	17-Jun-10	19.5	15.98	3.52	2.3	NR	NR
DPE-6	18-Aug-10	19.5	16.56	2.94	1.9	19.3	0.2
DPE-6	27-Sep-10	19.5	13.98	5.52	3.6	19.3	0.2
DPE-6	18-Nov-10	19.5	14.24	5.26	3.4	NR	NR
DPE-6	22-Dec-10	19.5	14.89	4.61	3.0	19.2	0.3
DPE-6	6-Jan-11	19.5	13.96	5.54	3.6	19.3	0.2
DPE-6	20-Jan-11	19.5	14.2	5.3	3.5	19.2	0.3
DPE-6	28-Feb-11	19.5	14.31	5.19	3.4	NR	NR
DPE-6	7-Mar-11	19.5	14.8	4.7	3.1	19.3	0.2
DPE-6	18-Mar-11	19.5	14.87	4.63	3.0	19.4	0.1
DPE-6	23-Mar-11	19.5	14.08	5.42	3.5	19.4	0.1
DPE-6	22-Apr-11	19.5	13.52	5.98	3.9	19.4	0.1
DPE-6	19-May-11	19.5	14.09	5.41	3.5	19.1	0.4
DPE-6	16-Jun-11	19.5	14.3	5.2	3.4	19.3	0.2

Attachment 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-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
DPE-7	22-Feb-10	22.2	16.98	5.22	3.4	22.3	-0.1
DPE-7	25-Mar-10	22.2	16.65	5.55	3.6	22.1	0.1
DPE-7	16-Apr-10	22.2	16.71	5.49	3.6	22.3	-0.1
DPE-7	12-May-10	22.2	17.41	4.79	3.1	22	0.2
DPE-7	17-Jun-10	22.2	17.5	4.7	3.1	NR	NR
DPE-7	18-Aug-10	22.2	17.98	4.22	2.8	21.9	0.3
DPE-7	27-Sep-10	22.2	15.36	6.84	4.5	21.65	0.55
DPE-7	18-Nov-10	22.2	15.59	6.61	4.3	NR	NR
DPE-7	22-Dec-10	22.2	16.02	6.18	4.0	22.1	0.1
DPE-7	6-Jan-11	22.2	15.2	7	4.6	22	0.2
DPE-7	20-Jan-11	22.2	15.31	6.89	4.5	22.1	0.1
DPE-7	28-Feb-11	22.2	15.61	6.59	4.3	22.15	0.05
DPE-7	7-Mar-11	22.2	16.08	6.12	4.0	22.4	-0.2
DPE-7	18-Mar-11	22.2	16.08	6.12	4.0	22.1	0.1
DPE-7	23-Mar-11	22.2	14.83	7.37	4.8	21.9	0.3
DPE-7	22-Apr-11	22.2	15.6	6.6	4.3	22.4	-0.2
DPE-7	19-May-11	22.2	15.33	6.87	4.5	22.3	-0.1
DPE-7	16-Jun-11	22.2	15.58	6.62	4.3	21.95	0.25
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
DPE-8	22-Feb-10	17.5	14.19	3.31	2.2	18.3	-0.8
DPE-8	25-Mar-10	17.5	15.72	1.78	1.2	17.8	-0.3
DPE-8	16-Apr-10	17.5	16.2	1.3	0.8	17.8	-0.3
DPE-8	12-May-10	17.5	16.61	0.89	0.6	17.5	0
DPE-8	17-Jun-10	17.5	16.92	0.58	0.4	NR	NR
DPE-8	18-Aug-10	17.5	17.21	0.29	0.2	17.8	-0.3
DPE-8	27-Sep-10	17.5	14.75	2.75	1.8	17.6	-0.1
DPE-8	18-Nov-10	17.5	15.37	2.13	1.4	NR	NR
DPE-8	22-Dec-10	17.5	15.4	2.1	1.4	17.3	0.2
DPE-8	6-Jan-11	17.5	15.18	2.32	1.5	17.7	-0.2
DPE-8	20-Jan-11	17.5	16.15	1.35	0.9	17.6	-0.1
DPE-8	28-Feb-11	17.5	16.78	0.72	0.5	17.5	0
DPE-8	7-Mar-11	17.5	15.81	1.69	1.1	17.5	0
DPE-8	18-Mar-11	17.5	15.71	1.79	1.2	17.2	0.3
DPE-8	23-Mar-11	17.5	14.2	3.3	2.2	17.5	0
DPE-8	22-Apr-11	17.5	14.61	2.89	1.9	17.4	0.1
DPE-8	19-May-11	17.5	15.18	2.32	1.5	17.1	0.4
DPE-8	16-Jun-11	17.5	15.48	2.02	1.3	17.6	-0.1

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 ¹	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	
DPE Pump Maintenance																													
- Inspect Hoses, Piping and Fittings for Oil Leaks - MONTHLY	Sep 4	Oct 15, 16	Nov 16	Dec 17	Jan 14	Feb 22	Mar 9, 25	Apr 16	May 12	Jun 17	Jul 26	Aug 18	Sep 27	Oct 18	Nov 18	Dec 23	Jan 6, 20	Feb 28	Mar 18, 23	Apr 22	May 19	Jun 16	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	Feb 22	Mar 9, 25	Apr 16	May 12	Jun 17	Jul 26	Aug 18	Sep 27	Oct 18	Nov 18	Dec 23	Jan 6, 20	Feb 28	Mar 18, 23	NA	May 19	Jun 16	X	X	X	X	X	X	X
- Change Oil - MONTHLY							Mar 9						Sep 27					Feb 28	Mar 23	Apr 22	May 19	Jun 16	X	X	X	X	X	X	
- Clean Pump Inlet Opening							Mar 9	Apr 16	May 12	Jun 17	Jul 26	Aug 18	Sep 27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
- 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, 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Moisture Separator Maintenance																													
- Clean Floats - MONTHLY	Sep 4	Oct 15, 16, 23, 27	Nov 16	Dec 17	Jan 14	Feb 3, 10, 16	Mar 9, 25	Apr 16	May 12	Jun 17	Jul 26	NA	Sep 27	Oct 18	Nov 18	Dec 23	Jan 6, 20	Feb 28	Mar 7, 18, 23	Apr 22	May 19	Jun 16	X	X	X	X	X	X	X
- Check Sediment - MONTHLY		Oct 27	Nov 16	Dec 17	Jan 14	Feb 3, 10, 22	Mar 9, 25	Apr 16	May 12	Jun 17	Jul 26	NA	Sep 27	Oct 18	Nov 18	Dec 23	Jan 6, 20	Feb 28	Mar 7, 18, 23	Apr 22	May 19	Jun 16	X	X	X	X	X	X	X
- Remove Sediment - AS NEEDED		Oct 27	Nov 16			Feb 3, 10, 22			May 12				Sep 27						Mar 7	NA	NA	Jun 16			X				
- Replace MS#1 Filter (5 micron) - If Pressure Drop Occurs						Feb 26						NA	Sep 27											X					
- Replace MS#2 Filter (1 micron) - If Pressure Drop Occurs						Feb 26						NA	Sep 27											X					
- Transfer Pump (Moyno 34401 1 HP) - Inspect Hoses, Piping and Fittings for Water Leaks - MONTHLY	Sep 4	Oct 15, 16	Nov 16	Dec 17	Jan 14	Feb 22	Mar 9	Apr 16	May 12	Jun 17	Jul 26	NA	Sep 27	Oct 18	Nov 18	Dec 23	Jan 6, 20	Feb 28	Mar 7, 18, 23	Apr 22	May 19	Jun 16	X	X	X	X	X	X	
- Replace Transfer Pump Stator - SEMI-ANNUALLY						Feb 16						Aug 18	Sep 27						Mar 18	NA					X				
Air Stripper Maintenance																													
- Clean Air Stripper - ANNUALLY OR AS NEEDED							Mar 25	Apr 16	May 12	Jun 17	Jul 26		Sep 27	Oct 18			Jan 6, 20		Mar 18	Apr 22	May 19								
- Clean Floats - QUARTERLY						Feb 12			May 12			NA	Sep 27	Oct 18					Mar 18					X			X		
- Discharge Pump (Meyers CT10 1 HP) - Inspect Hoses, Piping and Fittings for Water Leaks - MONTHLY	Sep 4	Oct 15, 16	Nov 16	Dec 17	Jan 14	Feb 22	Mar 25	Apr 16	May 12	Jun 17	Jul 26	NA	Sep 27	Oct 18	Nov 18	Dec 23	Jan 6, 20	Feb 28	Mar 7, 18	Apr 22	May 19	Jun 16	X	X	X	X	X	X	
- Blower (16N4 TBNA 3 HP) - Inspect Hoses, Piping and Fittings for Leaks - MONTHLY	Sep 4	Oct 15, 16	Nov 16	Dec 17	Jan 14	Feb 22	Mar 25	Apr 16	May 12	Jun 17	Jul 26	NA	Sep 27	Oct 18	Nov 18	Dec 23	Jan 6, 20	Feb 28	Mar 7, 18	Apr 22	May 19	Jun 16	X	X	X	X	X	X	
Solenoid Valve Maintenance																													
- Inspect - MONTHLY	Sep 4	Oct 15, 16	Nov 16	Dec 17	Jan 14	Feb 22	Mar 9, 25	Apr 16	May 12	Jun 17	Jul 26	NA	Sep 27	Oct 18	Nov 18	Dec 23	Jan 6, 20	Feb 28	Mar 18	Apr 22	May 19	Jun 16	X	X	X	X	X	X	
- Clean - AS NEEDED		Oct 27	Nov 6	Dec 4									Sep 27				Jan 6, 20		Mar 18										
- Rebuild - AS NEEDED				Dec 7									Sep 27				Jan 6, 20	Feb 28											

Notes:
 Sep 4: Date task completed.
 X: Task to be completed during that month.
 NA: Not applicable
 1: Some maintenance was not performed because of DPE pump oil leak.

FIELD DATA SHEET 1 of 2 (REVISED 4/13/10)

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

DATE: 4/22/11
TIME: 9:10
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:

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

ANALOG PANEL READINGS

DPE PUMP AIR FLOW (SCFM): 72.7
DPE WELL VACUUM (IN. HG): 17.7
DPE PUMP INLET VACUUM (IN. HG): 18.62
DPE PUMP OUTLET PRESSURE (PSI): 0.02
DPE PUMP OUTLET TEMP (DEG. F): 240
MS PUMP WATER FLOW (GPM): ~~48~~

#7

usually 0-0.5% Broken

TOTAL PANEL READINGS

DPE VACUUM PUMP (HRS): 1199.5
MS PUMP (HRS): 608
MS VACUUM VALVE (HRS): 171
AIR STRIPPER BLOWER (HRS): 4700
AIR STRIPPER PUMP (HRS): 325
DPE AIR FLOW (SCF): 53741000
MS PUMP WATER FLOW (GAL): 461499
SUMP PUMP WATER FLOW (GAL): 470

Working

STATIC WATER LEVELS

	Clean to Dirty Ranking	Well Depth below TOC (FT)	Depth to Water below TOC (FT)
MW-14	3	17.5	12.70
MW-15	4	18	13.40
MW-16	10	18	11.92
MW-17	7	25	11.64
MW-18	6	60	12.27
MW-19	1	20	12.42
MW-20	8	16.7	11.22
DPE-1	15	21.9	16.61
DPE-2	13	20.5	14.51
DPE-3	14	17.1	14.51
DPE-4	12	19.3	14.64
DPE-5	9	18.1	16.26
DPE-6	5	19.5	13.52
DPE-7	2	22.2	15.60
DPE-8	11	17.5	14.61
Sump	1	7.74	6.52

FIELD MEASUREMENTS

DPE WELL CASING VACUUM (MM HG): 17.0
PRE-MANIFOLD VACUUM (IN. HG): 17.0
DPE WELL (PRE-MS-1) VACUUM (IN. HG): 17.0
POST-MS-1 VACUUM (IN. HG): 17.5
POST-MS-2 VACUUM (IN. HG): 18.5
DPE PUMP AIR FLOW (SCFM): 75
DPE EXHAUST PID CONC. (PPM): 5.4
DPE PUMP OUTLET PRESSURE (IN. H2O): 29.0
DPE PUMP OUTLET TEMP (DEG. F): 250

OPERATING WATER LEVELS

DPE-1	21.0
DPE-2	20.1
DPE-3	17.2
DPE-4	19.6
DPE-5	19.3
DPE-6	19.4
DPE-7	22.4
DPE-8	17.4

MS PUMP WATER FLOWRATE (WHILE PUMPING) (GPM): Fail
MS PUMP WATER PRESSURE (WHILE PUMPING) (PSI): 18
MS PUMP FLOW TOTALIZER READING (GAL): 373802

SUMP ROOM PID: ND

AS EXHAUST PRESSURE (IN. H2O): Fail 0.5 magnetic
AS DISCHARGE PUMP PRESSURE (WHILE PUMPING) (PSI): 25
AS BLOWER PRESSURE (IN. H2O): 18
AS EXHAUST PID (PPM): ND

BASEMENT PID READINGS: ND

ELEVATOR DRAIN TILE SUMP FLOW TOTALIZER (GAL): 541

COMMENTS/MAINTENANCE:

FIELD DATA SHEET 2 of 2 (REVISED 4/13/10)

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

DATE: 4/22/11
 TIME:
 RECORDED BY:

	PID READINGS	DPE EXHAUST FLOW RATE	DPE PUMP INLET VACUUM	WELL CASING VACUUMS
DPE-1	17.5	39	21.25	68
DPE-2	2.0	39	21.3	150
DPE-3	31.3	66	18.5	125
DPE-4	3.5	60	19.5	128
DPE-5	5.7 3.8	96	15.9	120
DPE-6	5.6	57	19.5	100
DPE-7	5.4	72	17.7	29
DPE-8	5.1	97	15.1	80

65.75

CAN started @ 09:10 @ 13:52 - 8

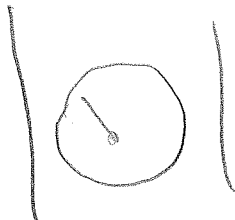
- 30

CAN # 5141

Water sample 9:25 IN
 9:30 EFF

Parts

0-60"
 0-30" H2O



MAINTENANCE CHECKLIST (Revised 4/13/10)

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

Date:

4/22/11

Field Representative:

JEG

**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 *Monthly*
- Clean Pump Inlet Opening - MONTHLY

Check Box

✓
NA
✓
✓

✓
NA
✓

Moisture Separator Maintenance

- Clean Floats - MONTHLY
- Check Sediment - MONTHLY
- Remove Sediment - MONTHLY
- Replace MS#1 Filter (5 micron) - If Pressure Drop Occurs
- Replace MS#2 Filter (1 micron) - If Pressure Drop Occurs
- Transfer Pump (Moyno 34401 1 HP) - Inspect Hoses, Piping and Fittings for Water Leaks - MONTHLY
- Replace Transfer Pump Stator - SEMI-ANNUALLY

✓
✓
NA
✓

New Last month
clean
Needed

NA

Have new stator on site

Air Stripper Maintenance

- Clean Air Stripper - ANNUALLY OR AS NEEDED
- Clean Floats - Quarterly
- 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

✓
NA
✓

7 gallons acid
last month

✓

Solenoid Valve Maintenance

- Inspect - MONTHLY
- Clean - AS NEEDED
- Rebuild - AS NEEDED

✓
NA
NA

FIELD DATA SHEET 1 of 2 (REVISED 4/13/10)

DPE-5

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

DATE: 5/3/11 / 5/5/11
 TIME: 2:00
 RECORDED BY:

Flow source

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): 77.4 / 62.1 @ 16
 DPE WELL VACUUM (IN. HG): 19.28 / 19.23
 DPE PUMP INLET VACUUM (IN. HG): 20.53 / 20.53
 DPE PUMP OUTLET PRESSURE (PSI): 0 / 0
 DPE PUMP OUTLET TEMP (DEG. F): 163 / 155
 MS PUMP WATER FLOW (GPM): 12.9 / 12.66

TOTAL PANEL READINGS

DPE VACUUM PUMP (HRS): 12260 / 12313
 MS PUMP (HRS): 625 / 628
 MS VACUUM VALVE (HRS): 171 / 171
 AIR STRIPPER BLOWER (HRS): 4546 / 4564
 AIR STRIPPER PUMP (HRS): 335 / 336
 DPE AIR FLOW (SCF): 54865000 / 55073000
 MS PUMP WATER FLOW (GAL): 462749 / 464860
 SUMP PUMP WATER FLOW (GAL): 480 / 480

STATIC WATER LEVELS

	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	

FIELD MEASUREMENTS

DPE WELL CASING VACUUM (MM HG): 18- / 18-
 PRE-MANIFOLD VACUUM (IN. HG): 18 / 18-
 DPE WELL (PRE-MS-1) VACUUM (IN. HG): 18.5 / 18.5
 POST-MS-1 VACUUM (IN. HG): 19.0 / 19.0
 POST-MS-2 VACUUM (IN. HG): 20.5 / 20.5
 DPE PUMP AIR FLOW (SCFM): 65 / 65
 DPE EXHAUST PID CONC. (PPM): NA / NA
 DPE PUMP OUTLET PRESSURE (IN. H2O): 0 / 10
 DPE PUMP OUTLET TEMP (DEG. F): 168 / 149

OPERATING WATER LEVELS

DPE-1	
DPE-2	
DPE-3	
DPE-4	
DPE-5	
DPE-6	
DPE-7	
DPE-8	

MS PUMP WATER FLOWRATE (WHILE PUMPING) (GPM): 12.9 / 12.3
 MS PUMP WATER PRESSURE (WHILE PUMPING) (PSI): 16 / 16
 MS PUMP FLOW TOTALIZER READING (GAL): 86 / 2307

SUMP ROOM PID:

BASEMENT PID READINGS:

COMMENTS/MAINTENANCE:

AS EXHAUST PRESSURE (IN. H2O): NA /
 AS DISCHARGE PUMP PRESSURE (WHILE PUMPING) (PSI): 25 / 25
 AS BLOWER PRESSURE (IN. H2O): 18 / 18
 AS EXHAUST PID (PPM): NA / NA

5/3 stopped by site to clean fix discharge flow meter
 5/5 fixed leaking DPE-4 solenoid valve

ELEVATOR DRAIN TILE SUMP FLOW TOTALIZER (GAL):

FIELD DATA SHEET 1 of 2 (REVISED 4/13/10)

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

DATE: 5/19/11
TIME: 06:00
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): 40.9 #2
DPE WELL VACUUM (IN. HG): 21.34
DPE PUMP INLET VACUUM (IN. HG): 22.57
DPE PUMP OUTLET PRESSURE (PSI): 0.00
DPE PUMP OUTLET TEMP (DEG. F): 23.4
MS PUMP WATER FLOW (GPM): 12.5

TOTAL PANEL READINGS

DPE VACUUM PUMP (HRS): 12645
MS PUMP (HRS): 650
MS VACUUM VALVE (HRS): 171
AIR STRIPPER BLOWER (HRS): 4734
AIR STRIPPER PUMP (HRS): 349
DPE AIR FLOW (SCF): 50604000
MS PUMP WATER FLOW (GAL): 480836
SUMP PUMP WATER FLOW (GAL): 480

FIELD MEASUREMENTS

DPE WELL CASING VACUUM (MM HG): 19.0
PRE-MANIFOLD VACUUM (IN. HG): 19.0
DPE WELL (PRE-MS-1) VACUUM (IN. HG): 19.5
POST-MS-1 VACUUM (IN. HG): 22
POST-MS-2 VACUUM (IN. HG): 27.5
DPE PUMP AIR FLOW (SCFM): 40
DPE EXHAUST PID CONC. (PPM): 7.1
DPE PUMP OUTLET PRESSURE (IN. H2O): 0
DPE PUMP OUTLET TEMP (DEG. F): 22.9

MS PUMP WATER FLOWRATE (WHILE PUMPING) (GPM): 12.6
MS PUMP WATER PRESSURE (WHILE PUMPING) (PSI): 16
MS PUMP FLOW TOTALIZER READING (GAL): 18817

AS EXHAUST PRESSURE (IN. H2O): 11
AS DISCHARGE PUMP PRESSURE (WHILE PUMPING) (PSI): 26
AS BLOWER PRESSURE (IN. H2O): 17
AS EXHAUST PID (PPM): 49

ELEVATOR DRAIN TILE SUMP FLOW TOTALIZER (GAL): 541

STATIC WATER LEVELS

	Clean to Dirty Ranking	Well Depth below TOC (FT)	Depth to Water below TOC (FT)
MW-14	3	17.5	10.96
MW-15	4	18	13.38
MW-16	10	18	11.88
MW-17	7	25	11.96
MW-18	6	60	17.80
MW-19	1	20	12.84
MW-20	8	16.7	11.26
DPE-1	15	21.9	14.59
DPE-2	13	20.5	14.78
DPE-3	14	17.1	14.96
DPE-4	12	19.3	15.80
DPE-5	9	18.1	14.32
DPE-6	5	19.5	14.09
DPE-7	2	22.2	15.33
DPE-8	11	17.5	15.18
Sump	1	7.74	6.27

OPERATING WATER LEVELS

DPE-1	21.2
DPE-2	20.6
DPE-3	17.0
DPE-4	17.3
DPE-5	18.4
DPE-6	19.1
DPE-7	22.3
DPE-8	17.1

SUMP ROOM PID: ND

BASEMENT PID READINGS: ND

COMMENTS/MAINTENANCE:

FIELD DATA SHEET 2 of 2 (REVISED 4/13/10)

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

DATE: 5/19/11
 TIME: 16:00
 RECORDED BY:

	PID READINGS	DPE EXHAUST FLOW RATE	DPE PUMP INLET VACUUM	WELL CASING VACUUMS
DPE-1	4.4	65 30	19 21.5	40
DPE-2	7.1	45	21.0	125
DPE-3	8.0	65	19	140
DPE-4	15.6	60	19.5	80
DPE-5	11.2	85	16.5	75
DPE-6	7.6	60	19.5	85
DPE-7	6.1	70	18.0	30
DPE-8	4.9	75	17	75

61.25

X Started CAN #4 0830 + end 14:30
 - 30

CAN 0416
 Reg# FCO216

MAINTENANCE CHECKLIST (Revised 4/13/10)

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

Date: 5/19/11

Field Representative: _____

**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 *monthly*
- Clean Pump Inlet Opening - MONTHLY

Check Box

✓
✓
✓
✓

_____ *12645 hours*

Moisture Separator Maintenance

- Clean Floats - MONTHLY
- Check Sediment - MONTHLY
- Remove Sediment - MONTHLY
- Replace MS#1 Filter (5 micron) - If Pressure Drop Occurs
- Replace MS#2 Filter (1 micron) - If Pressure Drop Occurs
- Transfer Pump (Moyno 34401 1 HP) - Inspect Hoses, Piping and Fittings for Water Leaks - MONTHLY
- Replace Transfer Pump Stator - SEMI-ANNUALLY

✓
✓
✓

_____ *NA*

_____ *NEED*

✓

Air Stripper Maintenance

- Clean Air Stripper - ANNUALLY OR AS NEEDED
- Clean Floats - Quarterly
- 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

✓

_____ *Added acid*

_____ *NA*

_____ *NA*

✓

Solonoid Valve Maintenance

- Inspect - MONTHLY
- Clean - AS NEEDED
- Rebuild - AS NEEDED

✓

Field Information Data Sheet

**Landmark
Environmental, LLC**

Client Name: City of Rochester – Second Quarter Sampling
 Project Name: CRC Project Number: CRC-10
 Location: MW-14 Date: May 19, 2011
 Station: _____ Sample time: 06:00

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	17.5							
Static water level:	10.96	19.53	19.38	984	7.61	-15.1	2.57	
Water depth ¹ :	6.54	26.04						
Well volume (gal):	1	32.53						
Purge method:	Whale							
Sample Method:	Bailer							
Start time:								
Stop time:								
Duration (min.):		Odor:	None					
Rate, gpm:		Purge appearance:	cloudy					
Volume purged:	1.5 G	Sample appearance:	cloudy					
Duplicate collected?		Comments:	1.5 gallon dry					
Sampled by:	JEB							
Others present:	None	Well Condition	good					
Analysis:	VOC	filtered metal	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 – Second Quarter Sampling
 Project Name: CRC Project Number: CRC-10
 Location: MW-15 Date: May 19, 2011
 Station: _____ Sample time: 06:30

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	18							
Static water level:	13.38	2.4	15.4	1314	8.08	-42	2.51	
Water depth ¹ :	4.62	3.2						
Well volume (gal):	0.8	4.0						
Purge method:	Whale							
Sample Method:	Bailer							
Start time:	/							
Stop time:	/							
Duration (min.):	/	Odor:						
Rate, gpm:	/	Purge appearance:	cloudy					
Volume purged:	2 gallons	Sample appearance:	cloudy					
Duplicate collected?	/	Comments: 2 gallons log						
Sampled by:	SEB							
Others present:		Well Condition	good					
Analysis:	VOC	filtered metal	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 – Second Quarter Sampling
 Project Name: CRC Project Number: CRC-10
 Location: MW-16 Date: May 19, 2011
 Station: _____ Sample time: 09:00

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	18							
Static water level:	11.88	3.0	19.2	2476	7.76	-26	2.51	
Water depth ¹ :	6.12	4.0						
Well volume (gal):	1.0	5.0						
Purge method:	/							
Sample Method:	/							
Start time:	/							
Stop time:	/							
Duration (min.):	/	Odor:	No					
Rate, gpm:	/	Purge appearance:	cloudy					
Volume purged:	2	Sample appearance:	cloudy					
Duplicate collected?	/	Comments:	2 gallons log					
Sampled by:	SE							
Others present:		Well Condition	good					
Analysis:	(VOC)	filtered metal	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 – Second Quarter Sampling
 Project Name: CRC Project Number: CRC-10
 Location: MW-17 Date: May 19, 2011
 Station: 25 Sample time: 12:00

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	25							
Static water level:	11.96	1.5	18.6	1362	7.87	-31	0.77	
Water depth ¹ :	13.04	2.0	18.6	1371	7.87	-31	0.77	
Well volume (gal):	0.5	2.5						
Purge method:								
Sample Method:								
Start time:								
Stop time:								
Duration (min.):		Odor:	Yes - swam					
Rate, gpm:		Purge appearance:	yes / cloudy					
Volume purged:		Sample appearance:	cloudy					
Duplicate collected?		Comments: 2 gallons dry						
Sampled by:								
Others present:		Well Condition						
Analysis:	VOC	filtered metal	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 – Second Quarter Sampling
 Project Name: CRC Project Number: CRC-10
 Location: MW-18 Date: May 19, 2011
 Station: _____ Sample time: 07:00

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	60							
Static water level:	15.8 28.0	24	17.5	1949	7.41	-8.5	0.91	
Water depth ¹ :	47.2	32						
Well volume (gal):	8.0	40						
Purge method:	/							
Sample Method:	/							
Start time:	/							
Stop time:	/							
Duration (min.):	/	Odor:						
Rate, gpm:	/	Purge appearance:	cloudy					
Volume purged:	20	Sample appearance:	cloudy					
Duplicate collected?	/	Comments:	20 gallons dry					
Sampled by:	/							
Others present:	SE	Well Condition	good					
Analysis:	VOC	filtered metal	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



Client Name: City of Rochester – Second Quarter Sampling
 Project Name: CRC Project Number: CRC-10
 Location: MW-19 Date: May 19, 2011
 Station: _____ Sample time: 09:30

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	20							
Static water level:	12.84	3.6	16.9	3750	7.05	14	261	/
Water depth ¹ :	7.16	4.8						
Well volume (gal):	102	6.0						
Purge method:	Whale							
Sample Method:	Brim							
Start time:	/							
Stop time:	/							
Duration (min.):	/	Odor:	NO					
Rate, gpm:	/	Purge appearance:	very cloudy					
Volume purged:	2 gallons	Sample appearance:	cloudy					
Duplicate collected?	/	Comments:	2 gallons dry					
Sampled by:	JEG							
Others present:		Well Condition	sand					
Analysis:	<u>VOC</u>	filtered metal	ml filter	in-line filter	others:			
MW:gw monitoring well WS:water supply well SW:surface water SE:sediment other:								

Field Information Data Sheet

Landmark Environmental, LLC

Client Name: City of Rochester – Second Quarter Sampling
 Project Name: CRC Project Number: CRC-10
 Location: MW-20 Date: May 19, 2011
 Station: _____ Sample time: 08:30

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	16.7							
Static water level:	11.26	3.7	10.5	3788	7.27	7.2	2.17	
Water depth ¹ :	5.44	3.6						
Well volume (gal):	0.9	4.5						
Purge method:	Whale							
Sample Method:	Boyle							
Start time:	/							
Stop time:	/							
Duration (min.):	/	Odor:						
Rate, gpm:	/	Purge appearance:	cloudy					
Volume purged:		Sample appearance:	cloudy					
Duplicate collected?		Comments:	1.5 gallons dry					
Sampled by:	JFG							
Others present:				Well Condition	Good			
Analysis:	VOC	filtered metal	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 – Second Quarter Sampling
 Project Name: CRC Project Number: CRC-10
 Location: Multiple Location Date: May 19, 2011
 Station: _____ Sample time: _____

Multiple Sampling Log:		Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Location:								
DPE-1:	12:00		18.9	1677	8.42	-59	4.17	✓
DPE-2:	12:20		18.4	1972	8.00	-38	2.75	✓
DPE-3:	12:40		17.2	4847	8.12	-41	5.76	✓
DPE-4:	13:00		18.8	2160	8.21	-49	4.37	✓
DPE-5:	13:20		18.6	1008	8.15	-36	2.91	
DPE-6:	13:40		18.4	1162	8.22	-44	2.61	
DPE-7:	14:00		18.2	2472	8.09	-43	2.97	
DPE-8:	14:20	1	18.4	3649	7.21	1.7	2.22	✓
Rate, gpm:								
Volume purged:								
Duplicate collected?								
Sampled by:								
Others present:					Well Condition			
Analysis:	VOC	filtered metal	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.

AS-IN 15:00

AS-out 15:15

FIELD DATA SHEET 1 of 2 (REVISED 4/13/10)

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

DATE: 6-16-11
TIME: 11:20 - 12:00
RECORDED BY: KAP

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 1
DPE WELL BLEED VALVE % OPEN: 100%
DPE PUMP BLEED VALVE % OPEN: 0%

STATIC WATER LEVELS

	Clean to Dirty Ranking	Well Depth below TOC (FT)	Depth to Water below TOC (FT)
MW-14	3	17.5	11.13
MW-15	4	18	13.62
MW-16	10	18	11.97
MW-17	7	25	12.21
MW-18	6	60	13.19
MW-19	1	20	13.05
MW-20	8	16.7	11.69
DPE-1	15	21.9	17.06
DPE-2	13	20.5	15.00
DPE-3	14	17.1	15.83
DPE-4	12	19.3	15.02
DPE-5	9	18.1	14.73
DPE-6	5	19.5	14.30
DPE-7	2	22.2	15.58
DPE-8	11	17.5	15.48
Sump	1	7.74	6.52

ANALOG PANEL READINGS

DPE PUMP AIR FLOW (SCFM): 44
DPE WELL VACUUM (IN. HG): 21.37
DPE PUMP INLET VACUUM (IN. HG): 22.33
DPE PUMP OUTLET PRESSURE (PSI): 6.02
DPE PUMP OUTLET TEMP (DEG. F): 256.4
MS PUMP WATER FLOW (GPM): 0.8

CAN # 727
Start 12:18 VAC 29 inHg
1:07 26 inHg
2:46 18 inHg
4:35 9 inHg
stop 5:54 3.6 inHg

Above well seal 2.03 ft

TOTAL PANEL READINGS

DPE VACUUM PUMP (HRS): 13314
MS PUMP (HRS): 691
MS VACUUM VALVE (HRS): 171
AIR STRIPPER BLOWER (HRS): 5140
AIR STRIPPER PUMP (HRS): 374
DPE AIR FLOW (SCF): 59808000
MS PUMP WATER FLOW (GAL): 0.3487852
SUMP PUMP WATER FLOW (GAL): 480

OPERATING WATER LEVELS

* DPE-1	23.78
DPE-2	20.25
DPE-3	19.2
DPE-4	19.73
DPE-5	18.44
DPE-6	19.3
DPE-7	21.95
DPE-8	17.6

FIELD MEASUREMENTS

DPE WELL CASING VACUUM (MM HG): 55
PRE-MANIFOLD VACUUM (IN. HG): 19
DPE WELL (PRE-MS-1) VACUUM (IN. HG): 21
POST-MS-1 VACUUM (IN. HG): 22
POST-MS-2 VACUUM (IN. HG): 22.5
DPE PUMP AIR FLOW (SCFM): 45
DPE EXHAUST PID CONC. (PPM): 0.5
DPE PUMP OUTLET PRESSURE (IN. H2O): 0.0
DPE PUMP OUTLET TEMP (DEG. F): 240

SUMP ROOM PID: 0.0

BASEMENT PID READINGS: 0.0

COMMENTS/MAINTENANCE:

* **MS PUMP WATER FLOWRATE (WHILE PUMPING) (GPM):** 0 *Flow Meter stop*
MS PUMP WATER PRESSURE (WHILE PUMPING) (PSI): 16
MS PUMP FLOW TOTALIZER READING (GAL): 27,076

AS EXHAUST PRESSURE (IN. H2O): 0.0 *FAULTY GAUGE*
AS DISCHARGE PUMP PRESSURE (WHILE PUMPING) (PSI): 25
AS BLOWER PRESSURE (IN. H2O): 17
AS EXHAUST PID (PPM): 25.7

ELEVATOR DRAIN TILE SUMP FLOW TOTALIZER (GAL): 514

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

DATE: _____
TIME: _____
RECORDED BY: _____

	PID READINGS	DPE EXHAUST FLOW RATE	DPE PUMP INLET VACUUM	WELL CASING VACUUMS ^{in H₂O}
DPE-1	27	37 40	22	55
DPE-2	21.2	38.1	22.5	200
DPE-3	34	60.2	20	125
DPE-4	49.2	52.4	21	130
DPE-5	50.8	72.7	18	120
DPE-6	48.2	53.5	19	100
DPE-7	47.4	56.3	20	40
DPE-8	52.3	84.3	17	85

56.43

MAINTENANCE CHECKLIST (Revised 4/13/10)

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

Date: 6/15/11

Field Representative: _____

**OBSERVATIONS AND/OR
DESCRIPTION OF MAINTENANCE**

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 - MONTHLY
- Clean Pump Inlet Opening - MONTHLY

Check Box
✓
✓
✓
✗

PERFORMED

OIL LEAK?
LOW

Moisture Separator Maintenance

- Clean Floats - MONTHLY
- Check Sediment - MONTHLY
- Remove Sediment - MONTHLY
- Replace MS#1 Filter (5 micron) - If Pressure Drop Occurs
- Replace MS#2 Filter (1 micron) - If Pressure Drop Occurs
- Transfer Pump (Moyno 34401 1 HP) - Inspect Hoses, Piping and Fittings for Water Leaks - MONTHLY
- Replace Transfer Pump Stator - SEMI-ANNUALLY
- * - Clean Discharge Flow Meter - SEMI-ANNUALLY

✓
✓
✓
✓
✓

OK Replacement
PK NOT needed

No
No

NO - Check PSE AND DATA

Air Stripper Maintenance

- Clean Air Stripper - ANNUALLY OR AS NEEDED
- Clean Floats - Quarterly
- 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

No
No
No

No

Solonoid Valve Maintenance

- Inspect - MONTHLY
- * - Clean - AS NEEDED
- Rebuild - AS NEEDED

✓
✓
✓

#4 LEAKING ok Replaced Faulty gauge

Attachment B

June 27, 2011

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

RE: Project: CRC City of Rochester
Pace Project No.: 10160714

Dear Mr. Skramstad:

Enclosed are the analytical results for sample(s) received by the laboratory on June 17, 2011. 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

Page 1 of 11

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CERTIFICATIONS

Project: CRC City of Rochester

Pace Project No.: 10160714

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

EPA Region 8 Certification #: Pace

Florida/NELAP Certification #: E87605

Georgia Certification #: 959

Idaho Certification #: MN00064

Illinois Certification #: 200011

Iowa Certification #: 368

Kansas Certification #: E-10167

Louisiana Certification #: 03086

Louisiana Certification #: LA080009

Maine Certification #: 2007029

Maryland Certification #: 322

Michigan DEQ Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT CERT0092

Nevada Certification #: MN_00064

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New Mexico Certification #: Pace

New York Certification #: 11647

North Carolina Certification #: 530

North Dakota Certification #: R-036

North Dakota Certification #: R-036A

Ohio VAP Certification #: CL101

Oklahoma Certification #: D9921

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Tennessee Certification #: 02818

Texas Certification #: T104704192

Washington Certification #: C754

Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: CRC City of Rochester

Pace Project No.: 10160714

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10160714001	Exhaust-727	Air	06/16/11 17:54	06/17/11 14:50
10160714002	0263	Air		06/17/11 14:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: CRC City of Rochester
Pace Project No.: 10160714

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10160714001	Exhaust-727	TO-15	DR1	61

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10160714

Sample: Exhaust-727	Lab ID: 10160714001	Collected: 06/16/11 17:54	Received: 06/17/11 14:50	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	72.5	ug/m3	14.8	30.8		06/23/11 02:22	67-64-1	
Benzene	ND	ug/m3	10.0	30.8		06/23/11 02:22	71-43-2	
Benzyl chloride	ND	ug/m3	32.3	30.8		06/23/11 02:22	100-44-7	
Bromodichloromethane	ND	ug/m3	43.1	30.8		06/23/11 02:22	75-27-4	
Bromoform	ND	ug/m3	64.7	30.8		06/23/11 02:22	75-25-2	
Bromomethane	ND	ug/m3	24.3	30.8		06/23/11 02:22	74-83-9	
1,3-Butadiene	ND	ug/m3	13.9	30.8		06/23/11 02:22	106-99-0	
2-Butanone (MEK)	ND	ug/m3	18.5	30.8		06/23/11 02:22	78-93-3	
Carbon disulfide	ND	ug/m3	19.4	30.8		06/23/11 02:22	75-15-0	
Carbon tetrachloride	ND	ug/m3	19.7	30.8		06/23/11 02:22	56-23-5	
Chlorobenzene	ND	ug/m3	29.0	30.8		06/23/11 02:22	108-90-7	
Chloroethane	ND	ug/m3	16.6	30.8		06/23/11 02:22	75-00-3	
Chloroform	ND	ug/m3	30.5	30.8		06/23/11 02:22	67-66-3	
Chloromethane	ND	ug/m3	12.9	30.8		06/23/11 02:22	74-87-3	
Cyclohexane	ND	ug/m3	20.9	30.8		06/23/11 02:22	110-82-7	
Dibromochloromethane	ND	ug/m3	52.4	30.8		06/23/11 02:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	49.3	30.8		06/23/11 02:22	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	37.0	30.8		06/23/11 02:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	37.0	30.8		06/23/11 02:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	37.0	30.8		06/23/11 02:22	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	30.8	30.8		06/23/11 02:22	75-71-8	
1,1-Dichloroethane	ND	ug/m3	25.3	30.8		06/23/11 02:22	75-34-3	
1,2-Dichloroethane	ND	ug/m3	12.6	30.8		06/23/11 02:22	107-06-2	
1,1-Dichloroethene	ND	ug/m3	24.9	30.8		06/23/11 02:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	24.9	30.8		06/23/11 02:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	24.9	30.8		06/23/11 02:22	156-60-5	
1,2-Dichloropropane	ND	ug/m3	29.0	30.8		06/23/11 02:22	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	28.3	30.8		06/23/11 02:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	28.3	30.8		06/23/11 02:22	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	43.1	30.8		06/23/11 02:22	76-14-2	
Ethanol	201	ug/m3	58.5	30.8		06/23/11 02:22	64-17-5	SS
Ethyl acetate	ND	ug/m3	22.5	30.8		06/23/11 02:22	141-78-6	
Ethylbenzene	ND	ug/m3	27.1	30.8		06/23/11 02:22	100-41-4	
4-Ethyltoluene	ND	ug/m3	77.0	30.8		06/23/11 02:22	622-96-8	
n-Heptane	ND	ug/m3	25.6	30.8		06/23/11 02:22	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	67.8	30.8		06/23/11 02:22	87-68-3	
n-Hexane	ND	ug/m3	22.2	30.8		06/23/11 02:22	110-54-3	
2-Hexanone	ND	ug/m3	25.6	30.8		06/23/11 02:22	591-78-6	
Methylene Chloride	ND	ug/m3	21.9	30.8		06/23/11 02:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	25.6	30.8		06/23/11 02:22	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	22.5	30.8		06/23/11 02:22	1634-04-4	
Naphthalene	ND	ug/m3	83.2	30.8		06/23/11 02:22	91-20-3	
2-Propanol	ND	ug/m3	77.0	30.8		06/23/11 02:22	67-63-0	
Propylene	ND	ug/m3	10.8	30.8		06/23/11 02:22	115-07-1	
Styrene	ND	ug/m3	26.8	30.8		06/23/11 02:22	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	21.5	30.8		06/23/11 02:22	79-34-5	
Tetrachloroethene	668	ug/m3	21.2	30.8		06/23/11 02:22	127-18-4	

Date: 06/27/2011 08:20 AM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10160714

Sample: Exhaust-727		Lab ID: 10160714001	Collected: 06/16/11 17:54	Received: 06/17/11 14:50	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR		Analytical Method: TO-15							
Tetrahydrofuran	ND	ug/m3	18.5	30.8		06/23/11 02:22	109-99-9		
Toluene	ND	ug/m3	23.7	30.8		06/23/11 02:22	108-88-3		
1,2,4-Trichlorobenzene	ND	ug/m3	30.5	30.8		06/23/11 02:22	120-82-1		
1,1,1-Trichloroethane	ND	ug/m3	33.9	30.8		06/23/11 02:22	71-55-6		
1,1,2-Trichloroethane	ND	ug/m3	16.9	30.8		06/23/11 02:22	79-00-5		
Trichloroethene	ND	ug/m3	16.9	30.8		06/23/11 02:22	79-01-6		
Trichlorofluoromethane	ND	ug/m3	33.9	30.8		06/23/11 02:22	75-69-4		
1,1,2-Trichlorotrifluoroethane	8050	ug/m3	49.3	30.8		06/23/11 02:22	76-13-1	E	
1,2,4-Trimethylbenzene	ND	ug/m3	30.8	30.8		06/23/11 02:22	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/m3	30.8	30.8		06/23/11 02:22	108-67-8		
Vinyl acetate	ND	ug/m3	21.9	30.8		06/23/11 02:22	108-05-4		
Vinyl chloride	ND	ug/m3	8.0	30.8		06/23/11 02:22	75-01-4		
m&p-Xylene	ND	ug/m3	54.2	30.8		06/23/11 02:22	179601-23-1		
o-Xylene	ND	ug/m3	27.1	30.8		06/23/11 02:22	95-47-6		

QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10160714

QC Batch: AIR/12554 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10160714001

METHOD BLANK: 1000100 Matrix: Air
Associated Lab Samples: 10160714001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	06/22/11 10:59	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	06/22/11 10:59	
1,1,2-Trichloroethane	ug/m3	ND	0.55	06/22/11 10:59	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	06/22/11 10:59	
1,1-Dichloroethane	ug/m3	ND	0.82	06/22/11 10:59	
1,1-Dichloroethene	ug/m3	ND	0.81	06/22/11 10:59	
1,2,4-Trichlorobenzene	ug/m3	ND	0.99	06/22/11 10:59	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	06/22/11 10:59	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	06/22/11 10:59	
1,2-Dichlorobenzene	ug/m3	ND	1.2	06/22/11 10:59	
1,2-Dichloroethane	ug/m3	ND	0.41	06/22/11 10:59	
1,2-Dichloropropane	ug/m3	ND	0.94	06/22/11 10:59	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	06/22/11 10:59	
1,3-Butadiene	ug/m3	ND	0.45	06/22/11 10:59	
1,3-Dichlorobenzene	ug/m3	ND	1.2	06/22/11 10:59	
1,4-Dichlorobenzene	ug/m3	ND	1.2	06/22/11 10:59	
2-Butanone (MEK)	ug/m3	ND	0.60	06/22/11 10:59	
2-Hexanone	ug/m3	ND	0.83	06/22/11 10:59	
2-Propanol	ug/m3	ND	2.5	06/22/11 10:59	
4-Ethyltoluene	ug/m3	ND	2.5	06/22/11 10:59	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	0.83	06/22/11 10:59	
Acetone	ug/m3	ND	0.48	06/22/11 10:59	
Benzene	ug/m3	ND	0.32	06/22/11 10:59	
Benzyl chloride	ug/m3	ND	1.0	06/22/11 10:59	
Bromodichloromethane	ug/m3	ND	1.4	06/22/11 10:59	
Bromoform	ug/m3	ND	2.1	06/22/11 10:59	
Bromomethane	ug/m3	ND	0.79	06/22/11 10:59	
Carbon disulfide	ug/m3	ND	0.63	06/22/11 10:59	
Carbon tetrachloride	ug/m3	ND	0.64	06/22/11 10:59	
Chlorobenzene	ug/m3	ND	0.94	06/22/11 10:59	
Chloroethane	ug/m3	ND	0.54	06/22/11 10:59	
Chloroform	ug/m3	ND	0.99	06/22/11 10:59	
Chloromethane	ug/m3	ND	0.42	06/22/11 10:59	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	06/22/11 10:59	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	06/22/11 10:59	
Cyclohexane	ug/m3	ND	0.68	06/22/11 10:59	
Dibromochloromethane	ug/m3	ND	1.7	06/22/11 10:59	
Dichlorodifluoromethane	ug/m3	ND	1.0	06/22/11 10:59	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	06/22/11 10:59	
Ethanol	ug/m3	ND	1.9	06/22/11 10:59	
Ethyl acetate	ug/m3	ND	0.73	06/22/11 10:59	
Ethylbenzene	ug/m3	ND	0.88	06/22/11 10:59	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	06/22/11 10:59	

Date: 06/27/2011 08:20 AM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10160714

METHOD BLANK: 1000100 Matrix: Air

Associated Lab Samples: 10160714001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/m3	ND	1.8	06/22/11 10:59	
Methyl-tert-butyl ether	ug/m3	ND	0.73	06/22/11 10:59	
Methylene Chloride	ug/m3	ND	0.71	06/22/11 10:59	
n-Heptane	ug/m3	ND	0.83	06/22/11 10:59	
n-Hexane	ug/m3	ND	0.72	06/22/11 10:59	
Naphthalene	ug/m3	ND	2.7	06/22/11 10:59	
o-Xylene	ug/m3	ND	0.88	06/22/11 10:59	
Propylene	ug/m3	ND	0.35	06/22/11 10:59	
Styrene	ug/m3	ND	0.87	06/22/11 10:59	
Tetrachloroethene	ug/m3	ND	0.69	06/22/11 10:59	
Tetrahydrofuran	ug/m3	ND	0.60	06/22/11 10:59	
Toluene	ug/m3	ND	0.77	06/22/11 10:59	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	06/22/11 10:59	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	06/22/11 10:59	
Trichloroethene	ug/m3	ND	0.55	06/22/11 10:59	
Trichlorofluoromethane	ug/m3	ND	1.1	06/22/11 10:59	
Vinyl acetate	ug/m3	ND	0.71	06/22/11 10:59	
Vinyl chloride	ug/m3	ND	0.26	06/22/11 10:59	

LABORATORY CONTROL SAMPLE: 1000101

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	56.3	101	66-133	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	76.7	110	70-140	
1,1,2-Trichloroethane	ug/m3	55.5	60.4	109	68-132	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	83.4	107	60-137	
1,1-Dichloroethane	ug/m3	41.2	45.8	111	65-131	
1,1-Dichloroethene	ug/m3	40.3	44.6	111	65-132	
1,2,4-Trichlorobenzene	ug/m3	75.5	85.5	113	30-150	
1,2,4-Trimethylbenzene	ug/m3	50	53.8	108	69-140	
1,2-Dibromoethane (EDB)	ug/m3	78.1	88.7	114	71-139	
1,2-Dichlorobenzene	ug/m3	61.2	68.5	112	68-139	
1,2-Dichloroethane	ug/m3	41.2	43.7	106	66-132	
1,2-Dichloropropane	ug/m3	47	52.9	113	69-130	
1,3,5-Trimethylbenzene	ug/m3	50	50.1	100	70-141	
1,3-Butadiene	ug/m3	22.5	25.9	115	68-128	
1,3-Dichlorobenzene	ug/m3	61.2	63.7	104	66-146	
1,4-Dichlorobenzene	ug/m3	61.2	63.0	103	66-142	
2-Butanone (MEK)	ug/m3	30	33.1	110	68-134	
2-Hexanone	ug/m3	41.7	43.3	104	70-144	
2-Propanol	ug/m3	23.8	27.6	116	66-139	
4-Ethyltoluene	ug/m3	50	52.4	105	65-145	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	43.6	105	70-139	
Acetone	ug/m3	24.2	24.0	99	56-142	
Benzene	ug/m3	32.5	36.5	112	69-129	

Date: 06/27/2011 08:20 AM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10160714

LABORATORY CONTROL SAMPLE: 1000101

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzyl chloride	ug/m3	52.5	52.0	99	68-138	
Bromodichloromethane	ug/m3	68.2	70.4	103	70-130	
Bromoform	ug/m3	105	108	102	67-147	
Bromomethane	ug/m3	39.5	37.1	94	67-127	
Carbon disulfide	ug/m3	31.7	29.4	93	65-131	
Carbon tetrachloride	ug/m3	64	63.6	99	62-137	
Chlorobenzene	ug/m3	46.8	52.8	113	72-133	
Chloroethane	ug/m3	26.8	25.4	95	66-127	
Chloroform	ug/m3	49.7	54.4	110	67-130	
Chloromethane	ug/m3	21	24.0	114	63-127	
cis-1,2-Dichloroethene	ug/m3	40.3	45.5	113	69-130	
cis-1,3-Dichloropropene	ug/m3	46.2	50.9	110	74-137	
Cyclohexane	ug/m3	35	39.2	112	69-137	
Dibromochloromethane	ug/m3	86.6	95.0	110	69-140	
Dichlorodifluoromethane	ug/m3	50.3	41.4	82	62-131	
Dichlorotetrafluoroethane	ug/m3	71.1	76.1	107	63-130	
Ethanol	ug/m3	19.2	20.3	106	63-135	SS
Ethyl acetate	ug/m3	36.6	40.5	111	70-135	
Ethylbenzene	ug/m3	44.2	48.2	109	71-141	
Hexachloro-1,3-butadiene	ug/m3	108	137	126	30-150	SS
m&p-Xylene	ug/m3	88.3	95.0	108	68-144	
Methyl-tert-butyl ether	ug/m3	36.7	42.3	115	54-136	
Methylene Chloride	ug/m3	35.3	39.0	110	56-143	
n-Heptane	ug/m3	41.7	46.8	112	72-130	
n-Hexane	ug/m3	35.8	41.7	116	68-130	
Naphthalene	ug/m3	53.3	59.3	111	30-150	
o-Xylene	ug/m3	44.2	46.0	104	70-141	
Propylene	ug/m3	17.5	19.9	114	61-139	
Styrene	ug/m3	43.3	46.0	106	68-145	
Tetrachloroethene	ug/m3	69	65.1	94	64-142	
Tetrahydrofuran	ug/m3	30	33.4	111	70-134	SS
Toluene	ug/m3	38.3	41.1	107	69-133	
trans-1,2-Dichloroethene	ug/m3	40.3	45.6	113	64-132	
trans-1,3-Dichloropropene	ug/m3	46.2	49.1	106	71-140	
Trichloroethene	ug/m3	54.6	60.9	111	68-132	
Trichlorofluoromethane	ug/m3	57.1	57.5	101	59-136	
Vinyl acetate	ug/m3	35.8	40.7	114	70-142	
Vinyl chloride	ug/m3	26	29.7	114	64-129	

QUALIFIERS

Project: CRC City of Rochester

Pace Project No.: 10160714

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.

SG - Silica Gel - Clean-Up

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

ANALYTE QUALIFIERS

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

SS This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC City of Rochester

Pace Project No.: 10160714

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10160714001	Exhaust-727	TO-15	AIR/12554		

10160714

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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



Section A Required Client Information: Company: Landmark Environmental Address: 2042 W. 98th St., Bloomington Mn 55431 Email To: jskramstad@landmarkenv.com Phone: 612-208-952-887 Fax: 612-208-952-887 Requested Due Date/TAI: 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: Invoice Number: 03505 Page: 03505 of 03505	
Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE Off-Exhaust - 727		Attention: Jason Skramstad Company Name: Landmark Environmental, LLC Address: 2042 W. 98th St. Bloomington Mn 55431 Pace Quote Reference: Pace Project Manager/Sales Rep. Carolyne Trout Pace Profile #:		Program <input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other Location of Sampling by State _____ Reporting Units ug/m ³ _____ mg/m ³ _____ ppbv _____ ppmv _____ Other _____ Report Level I. _____ II. _____ III. _____ IV. _____	
Valid Media Codes MEDIA CODE Tedlar Bag TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Other PM10		COLLECTED MEDIA CODE PID Reading (Client only) A C 6/16/11 1218 6/16/11 1754		Method: PM10 _____ 3C-Fixed Gas (%) _____ TO-3M (Methane) _____ TO-4 (PCBS) _____ TO-13 (PAH) _____ TO-14 _____ TO-15 _____ TO-15 Short List _____ Pace Lab ID 1160714001	
Summa Can Number 727F C0373		Flow Control Number 727F C0373		Canister Pressure (Initial Field - psig) 29 Canister Pressure (Final Field - psig) 3	
RELINQUISHED BY / AFFILIATION Jason Skramstad		ACCEPTED BY / AFFILIATION Jason Skramstad		DATE 6/17/11	
TIME 11:01		TIME 14:50		SAMPLE CONDITIONS Received on _____ Y/N Ice _____ Y/N Custody Sealed Cooler _____ Y/N Samples Intact _____ Y/N	
SIGNATURE OF SAMPLER: 		SIGNATURE OF SAMPLER: 		DATE SIGNED (M/DD/YY) 6/17/11	

ORIGINAL

AIR Sample Condition Upon Receipt



Client Name: LANDMARK Project # 10160714

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: 6/17/14

Chain of Custody Present: Yes No N/A
 Chain of Custody Filled Out: Yes No N/A
 Chain of Custody Relinquished: Yes No N/A
 Sampler Name & Signature on COC: Yes No N/A
 Samples Arrived within Hold Time: Yes No N/A
 Short Hold Time Analysis (<72hr): Yes No N/A
 Rush Turn Around Time Requested: Yes No N/A
 Sufficient Volume: Yes No N/A
 Correct Containers Used: Yes No N/A
 -Pace Containers Used: Yes No N/A
 Containers Intact: Yes No N/A
 Media: AR (CAN)
 Sample Labels match COC: Yes No N/A

Comments:
 1.
 2.
 3.
 4.
 5.
 6.
 7.
 8.
 9.
 10.
 11.
 12.

Samples Received: 2 CANS, 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
<u>EXHAUST</u>	<u>0727</u>		<u>FC0323</u>				
	<u>0263</u>						

Client Notification/ Resolution: _____ Field Data Required? Y / N
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

Project Manager Review: CM Date: 6/17/14

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)

June 23, 2011

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

RE: Project: CRC City of Rochester
Pace Project No.: 10160727

Dear Mr. Skramstad:

Enclosed are the analytical results for sample(s) received by the laboratory on June 17, 2011. 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@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 20

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CERTIFICATIONS

Project: CRC City of Rochester

Pace Project No.: 10160727

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

EPA Region 8 Certification #: Pace

Florida/NELAP Certification #: E87605

Georgia Certification #: 959

Idaho Certification #: MN00064

Illinois Certification #: 200011

Iowa Certification #: 368

Kansas Certification #: E-10167

Louisiana Certification #: 03086

Louisiana Certification #: LA080009

Maine Certification #: 2007029

Maryland Certification #: 322

Michigan DEQ Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT CERT0092

Nevada Certification #: MN_00064

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New Mexico Certification #: Pace

New York Certification #: 11647

North Carolina Certification #: 530

North Dakota Certification #: R-036

North Dakota Certification #: R-036A

Ohio VAP Certification #: CL101

Oklahoma Certification #: D9921

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Tennessee Certification #: 02818

Texas Certification #: T104704192

Washington Certification #: C754

Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: CRC City of Rochester
Pace Project No.: 10160727

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10160727001	AS-Influent	Water	06/16/11 12:10	06/17/11 14:50
10160727002	AS-Effluent	Water	06/16/11 12:50	06/17/11 14:50
10160727003	Trip Blank	Water		06/17/11 14:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: CRC City of Rochester

Pace Project No.: 10160727

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10160727001	AS-Influent	EPA 624	ECB	82
10160727002	AS-Effluent	EPA 624	ECB	82
10160727003	Trip Blank	EPA 624	ECB	82

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10160727

Sample: AS-Influent		Lab ID: 10160727001	Collected: 06/16/11 12:10	Received: 06/17/11 14:50	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV		Analytical Method: EPA 624						
Acetone	ND	ug/L	25.0	1		06/20/11 16:51	67-64-1	
Acrolein	ND	ug/L	10.0	1		06/20/11 16:51	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1		06/20/11 16:51	107-13-1	
Allyl chloride	ND	ug/L	4.0	1		06/20/11 16:51	107-05-1	
Benzene	ND	ug/L	1.0	1		06/20/11 16:51	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/20/11 16:51	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/20/11 16:51	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/20/11 16:51	75-27-4	
Bromoform	ND	ug/L	4.0	1		06/20/11 16:51	75-25-2	
Bromomethane	ND	ug/L	4.0	1		06/20/11 16:51	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		06/20/11 16:51	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		06/20/11 16:51	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		06/20/11 16:51	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		06/20/11 16:51	98-06-6	
Carbon disulfide	ND	ug/L	1.0	1		06/20/11 16:51	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		06/20/11 16:51	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/20/11 16:51	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/20/11 16:51	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		06/20/11 16:51	110-75-8	
Chloroform	ND	ug/L	1.0	1		06/20/11 16:51	67-66-3	
Chloromethane	ND	ug/L	4.0	1		06/20/11 16:51	74-87-3	
Chloroprene	ND	ug/L	1.0	1		06/20/11 16:51	126-99-8	
2-Chlorotoluene	ND	ug/L	1.0	1		06/20/11 16:51	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/20/11 16:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		06/20/11 16:51	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/20/11 16:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/20/11 16:51	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		06/20/11 16:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/20/11 16:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/20/11 16:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/20/11 16:51	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/20/11 16:51	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/20/11 16:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/20/11 16:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/20/11 16:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/20/11 16:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	4.0	1		06/20/11 16:51	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		06/20/11 16:51	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		06/20/11 16:51	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/20/11 16:51	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		06/20/11 16:51	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/20/11 16:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		06/20/11 16:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		06/20/11 16:51	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		06/20/11 16:51	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		06/20/11 16:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/20/11 16:51	87-68-3	

Date: 06/23/2011 04:32 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10160727

Sample: AS-Influent		Lab ID: 10160727001	Collected: 06/16/11 12:10	Received: 06/17/11 14:50	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		06/20/11 16:51	591-78-6	
Iodomethane	ND	ug/L	4.0	1		06/20/11 16:51	74-88-4	L2
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		06/20/11 16:51	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/20/11 16:51	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		06/20/11 16:51	75-09-2	
2-Methylnaphthalene	ND	ug/L	5.0	1		06/20/11 16:51	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		06/20/11 16:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/20/11 16:51	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		06/20/11 16:51	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		06/20/11 16:51	103-65-1	
Styrene	ND	ug/L	1.0	1		06/20/11 16:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/20/11 16:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/20/11 16:51	79-34-5	
Tetrachloroethene	42.8	ug/L	1.0	1		06/20/11 16:51	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		06/20/11 16:51	109-99-9	
Toluene	ND	ug/L	1.0	1		06/20/11 16:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/20/11 16:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/20/11 16:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/20/11 16:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/20/11 16:51	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/20/11 16:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/20/11 16:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		06/20/11 16:51	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		06/20/11 16:51	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		06/20/11 16:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		06/20/11 16:51	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		06/20/11 16:51	108-05-4	
Vinyl chloride	ND	ug/L	0.40	1		06/20/11 16:51	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		06/20/11 16:51	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/20/11 16:51	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/20/11 16:51	95-47-6	
Dibromofluoromethane (S)	107	%	75-125	1		06/20/11 16:51	1868-53-7	
4-Bromofluorobenzene (S)	99	%	75-125	1		06/20/11 16:51	460-00-4	
Toluene-d8 (S)	95	%	75-125	1		06/20/11 16:51	2037-26-5	
1,2-Dichloroethane-d4 (S)	104	%	75-125	1		06/20/11 16:51	17060-07-0	

ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10160727

Sample: AS-Effluent		Lab ID: 10160727002	Collected: 06/16/11 12:50	Received: 06/17/11 14:50	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV		Analytical Method: EPA 624						
Acetone	ND	ug/L	25.0	1		06/20/11 17:07	67-64-1	
Acrolein	ND	ug/L	10.0	1		06/20/11 17:07	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1		06/20/11 17:07	107-13-1	
Allyl chloride	ND	ug/L	4.0	1		06/20/11 17:07	107-05-1	
Benzene	ND	ug/L	1.0	1		06/20/11 17:07	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/20/11 17:07	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/20/11 17:07	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/20/11 17:07	75-27-4	
Bromoform	ND	ug/L	4.0	1		06/20/11 17:07	75-25-2	
Bromomethane	ND	ug/L	4.0	1		06/20/11 17:07	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		06/20/11 17:07	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		06/20/11 17:07	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		06/20/11 17:07	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		06/20/11 17:07	98-06-6	
Carbon disulfide	ND	ug/L	1.0	1		06/20/11 17:07	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		06/20/11 17:07	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/20/11 17:07	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/20/11 17:07	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		06/20/11 17:07	110-75-8	
Chloroform	ND	ug/L	1.0	1		06/20/11 17:07	67-66-3	
Chloromethane	ND	ug/L	4.0	1		06/20/11 17:07	74-87-3	
Chloroprene	ND	ug/L	1.0	1		06/20/11 17:07	126-99-8	
2-Chlorotoluene	ND	ug/L	1.0	1		06/20/11 17:07	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/20/11 17:07	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		06/20/11 17:07	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/20/11 17:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/20/11 17:07	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		06/20/11 17:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/20/11 17:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/20/11 17:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/20/11 17:07	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/20/11 17:07	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/20/11 17:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/20/11 17:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/20/11 17:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/20/11 17:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	4.0	1		06/20/11 17:07	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		06/20/11 17:07	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		06/20/11 17:07	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/20/11 17:07	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		06/20/11 17:07	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/20/11 17:07	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		06/20/11 17:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		06/20/11 17:07	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		06/20/11 17:07	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		06/20/11 17:07	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/20/11 17:07	87-68-3	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10160727

Sample: AS-Effluent		Lab ID: 10160727002	Collected: 06/16/11 12:50	Received: 06/17/11 14:50	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		06/20/11 17:07	591-78-6		
Iodomethane	ND ug/L		4.0	1		06/20/11 17:07	74-88-4	L2	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		06/20/11 17:07	98-82-8		
p-Isopropyltoluene	ND ug/L		1.0	1		06/20/11 17:07	99-87-6		
Methylene Chloride	ND ug/L		4.0	1		06/20/11 17:07	75-09-2		
2-Methylnaphthalene	ND ug/L		5.0	1		06/20/11 17:07	91-57-6		
4-Methyl-2-pentanone (MIBK)	ND ug/L		4.0	1		06/20/11 17:07	108-10-1		
Methyl-tert-butyl ether	ND ug/L		1.0	1		06/20/11 17:07	1634-04-4		
Naphthalene	ND ug/L		4.0	1		06/20/11 17:07	91-20-3		
n-Propylbenzene	ND ug/L		1.0	1		06/20/11 17:07	103-65-1		
Styrene	ND ug/L		1.0	1		06/20/11 17:07	100-42-5		
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		06/20/11 17:07	630-20-6		
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		06/20/11 17:07	79-34-5		
Tetrachloroethene	ND ug/L		1.0	1		06/20/11 17:07	127-18-4		
Tetrahydrofuran	ND ug/L		10.0	1		06/20/11 17:07	109-99-9		
Toluene	ND ug/L		1.0	1		06/20/11 17:07	108-88-3		
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		06/20/11 17:07	87-61-6		
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		06/20/11 17:07	120-82-1		
1,1,1-Trichloroethane	ND ug/L		1.0	1		06/20/11 17:07	71-55-6		
1,1,2-Trichloroethane	ND ug/L		1.0	1		06/20/11 17:07	79-00-5		
Trichloroethene	ND ug/L		1.0	1		06/20/11 17:07	79-01-6		
Trichlorofluoromethane	ND ug/L		1.0	1		06/20/11 17:07	75-69-4		
1,2,3-Trichloropropane	ND ug/L		4.0	1		06/20/11 17:07	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	1		06/20/11 17:07	76-13-1		
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		06/20/11 17:07	95-63-6		
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		06/20/11 17:07	108-67-8		
Vinyl acetate	ND ug/L		10.0	1		06/20/11 17:07	108-05-4		
Vinyl chloride	ND ug/L		0.40	1		06/20/11 17:07	75-01-4		
Xylene (Total)	ND ug/L		3.0	1		06/20/11 17:07	1330-20-7		
m&p-Xylene	ND ug/L		2.0	1		06/20/11 17:07	179601-23-1		
o-Xylene	ND ug/L		1.0	1		06/20/11 17:07	95-47-6		
Dibromofluoromethane (S)	106 %		75-125	1		06/20/11 17:07	1868-53-7		
4-Bromofluorobenzene (S)	99 %		75-125	1		06/20/11 17:07	460-00-4		
Toluene-d8 (S)	96 %		75-125	1		06/20/11 17:07	2037-26-5		
1,2-Dichloroethane-d4 (S)	104 %		75-125	1		06/20/11 17:07	17060-07-0		

ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10160727

Sample: Trip Blank		Lab ID: 10160727003	Collected:	Received: 06/17/11 14:50	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV		Analytical Method: EPA 624						
Acetone	ND	ug/L	25.0	1		06/20/11 14:56	67-64-1	
Acrolein	ND	ug/L	10.0	1		06/20/11 14:56	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1		06/20/11 14:56	107-13-1	
Allyl chloride	ND	ug/L	4.0	1		06/20/11 14:56	107-05-1	
Benzene	ND	ug/L	1.0	1		06/20/11 14:56	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/20/11 14:56	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/20/11 14:56	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/20/11 14:56	75-27-4	
Bromoform	ND	ug/L	4.0	1		06/20/11 14:56	75-25-2	
Bromomethane	ND	ug/L	4.0	1		06/20/11 14:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		06/20/11 14:56	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		06/20/11 14:56	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		06/20/11 14:56	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		06/20/11 14:56	98-06-6	
Carbon disulfide	ND	ug/L	1.0	1		06/20/11 14:56	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		06/20/11 14:56	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/20/11 14:56	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/20/11 14:56	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		06/20/11 14:56	110-75-8	
Chloroform	ND	ug/L	1.0	1		06/20/11 14:56	67-66-3	
Chloromethane	ND	ug/L	4.0	1		06/20/11 14:56	74-87-3	
Chloroprene	ND	ug/L	1.0	1		06/20/11 14:56	126-99-8	
2-Chlorotoluene	ND	ug/L	1.0	1		06/20/11 14:56	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/20/11 14:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		06/20/11 14:56	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/20/11 14:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/20/11 14:56	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		06/20/11 14:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/20/11 14:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/20/11 14:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/20/11 14:56	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/20/11 14:56	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/20/11 14:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/20/11 14:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/20/11 14:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/20/11 14:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	4.0	1		06/20/11 14:56	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		06/20/11 14:56	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		06/20/11 14:56	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/20/11 14:56	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		06/20/11 14:56	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/20/11 14:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		06/20/11 14:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		06/20/11 14:56	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		06/20/11 14:56	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		06/20/11 14:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/20/11 14:56	87-68-3	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10160727

Sample: Trip Blank		Lab ID: 10160727003	Collected:	Received: 06/17/11 14:50	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		06/20/11 14:56	591-78-6		
Iodomethane	ND ug/L		4.0	1		06/20/11 14:56	74-88-4	L2	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		06/20/11 14:56	98-82-8		
p-Isopropyltoluene	ND ug/L		1.0	1		06/20/11 14:56	99-87-6		
Methylene Chloride	ND ug/L		4.0	1		06/20/11 14:56	75-09-2		
2-Methylnaphthalene	ND ug/L		5.0	1		06/20/11 14:56	91-57-6		
4-Methyl-2-pentanone (MIBK)	ND ug/L		4.0	1		06/20/11 14:56	108-10-1		
Methyl-tert-butyl ether	ND ug/L		1.0	1		06/20/11 14:56	1634-04-4		
Naphthalene	ND ug/L		4.0	1		06/20/11 14:56	91-20-3		
n-Propylbenzene	ND ug/L		1.0	1		06/20/11 14:56	103-65-1		
Styrene	ND ug/L		1.0	1		06/20/11 14:56	100-42-5		
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		06/20/11 14:56	630-20-6		
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		06/20/11 14:56	79-34-5		
Tetrachloroethene	ND ug/L		1.0	1		06/20/11 14:56	127-18-4		
Tetrahydrofuran	ND ug/L		10.0	1		06/20/11 14:56	109-99-9		
Toluene	ND ug/L		1.0	1		06/20/11 14:56	108-88-3		
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		06/20/11 14:56	87-61-6		
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		06/20/11 14:56	120-82-1		
1,1,1-Trichloroethane	ND ug/L		1.0	1		06/20/11 14:56	71-55-6		
1,1,2-Trichloroethane	ND ug/L		1.0	1		06/20/11 14:56	79-00-5		
Trichloroethene	ND ug/L		1.0	1		06/20/11 14:56	79-01-6		
Trichlorofluoromethane	ND ug/L		1.0	1		06/20/11 14:56	75-69-4		
1,2,3-Trichloropropane	ND ug/L		4.0	1		06/20/11 14:56	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	1		06/20/11 14:56	76-13-1		
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		06/20/11 14:56	95-63-6		
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		06/20/11 14:56	108-67-8		
Vinyl acetate	ND ug/L		10.0	1		06/20/11 14:56	108-05-4		
Vinyl chloride	ND ug/L		0.40	1		06/20/11 14:56	75-01-4		
Xylene (Total)	ND ug/L		3.0	1		06/20/11 14:56	1330-20-7		
m&p-Xylene	ND ug/L		2.0	1		06/20/11 14:56	179601-23-1		
o-Xylene	ND ug/L		1.0	1		06/20/11 14:56	95-47-6		
Dibromofluoromethane (S)	105 %		75-125	1		06/20/11 14:56	1868-53-7		
4-Bromofluorobenzene (S)	100 %		75-125	1		06/20/11 14:56	460-00-4		
Toluene-d8 (S)	96 %		75-125	1		06/20/11 14:56	2037-26-5		
1,2-Dichloroethane-d4 (S)	103 %		75-125	1		06/20/11 14:56	17060-07-0		

QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10160727

QC Batch: MSV/17212 Analysis Method: EPA 624
QC Batch Method: EPA 624 Analysis Description: 624 MSV
Associated Lab Samples: 10160727001, 10160727002, 10160727003

METHOD BLANK: 998545 Matrix: Water
Associated Lab Samples: 10160727001, 10160727002, 10160727003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	06/20/11 11:26	
1,1,1-Trichloroethane	ug/L	ND	1.0	06/20/11 11:26	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/20/11 11:26	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/20/11 11:26	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	06/20/11 11:26	
1,1-Dichloroethane	ug/L	ND	1.0	06/20/11 11:26	
1,1-Dichloroethene	ug/L	ND	1.0	06/20/11 11:26	
1,1-Dichloropropene	ug/L	ND	1.0	06/20/11 11:26	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	06/20/11 11:26	
1,2,3-Trichloropropane	ug/L	ND	4.0	06/20/11 11:26	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	06/20/11 11:26	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	06/20/11 11:26	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	06/20/11 11:26	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	06/20/11 11:26	
1,2-Dichlorobenzene	ug/L	ND	1.0	06/20/11 11:26	
1,2-Dichloroethane	ug/L	ND	1.0	06/20/11 11:26	
1,2-Dichloropropane	ug/L	ND	4.0	06/20/11 11:26	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	06/20/11 11:26	
1,3-Dichlorobenzene	ug/L	ND	1.0	06/20/11 11:26	
1,3-Dichloropropane	ug/L	ND	1.0	06/20/11 11:26	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/20/11 11:26	
2,2-Dichloropropane	ug/L	ND	4.0	06/20/11 11:26	
2-Butanone (MEK)	ug/L	ND	4.0	06/20/11 11:26	
2-Chloroethylvinyl ether	ug/L	ND	10.0	06/20/11 11:26	
2-Chlorotoluene	ug/L	ND	1.0	06/20/11 11:26	
2-Hexanone	ug/L	ND	4.0	06/20/11 11:26	
2-Methylnaphthalene	ug/L	ND	5.0	06/20/11 11:26	
4-Chlorotoluene	ug/L	ND	1.0	06/20/11 11:26	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	06/20/11 11:26	
Acetone	ug/L	ND	25.0	06/20/11 11:26	
Acrolein	ug/L	ND	10.0	06/20/11 11:26	
Acrylonitrile	ug/L	ND	10.0	06/20/11 11:26	
Allyl chloride	ug/L	ND	4.0	06/20/11 11:26	
Benzene	ug/L	ND	1.0	06/20/11 11:26	
Bromobenzene	ug/L	ND	1.0	06/20/11 11:26	
Bromochloromethane	ug/L	ND	1.0	06/20/11 11:26	
Bromodichloromethane	ug/L	ND	1.0	06/20/11 11:26	
Bromoform	ug/L	ND	4.0	06/20/11 11:26	
Bromomethane	ug/L	ND	4.0	06/20/11 11:26	
Carbon disulfide	ug/L	ND	1.0	06/20/11 11:26	
Carbon tetrachloride	ug/L	ND	1.0	06/20/11 11:26	
Chlorobenzene	ug/L	ND	1.0	06/20/11 11:26	
Chloroethane	ug/L	ND	1.0	06/20/11 11:26	

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10160727

METHOD BLANK: 998545

Matrix: Water

Associated Lab Samples: 10160727001, 10160727002, 10160727003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroform	ug/L	ND	1.0	06/20/11 11:26	
Chloromethane	ug/L	ND	4.0	06/20/11 11:26	
Chloroprene	ug/L	ND	1.0	06/20/11 11:26	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/20/11 11:26	
cis-1,3-Dichloropropene	ug/L	ND	4.0	06/20/11 11:26	
Dibromochloromethane	ug/L	ND	1.0	06/20/11 11:26	
Dibromomethane	ug/L	ND	4.0	06/20/11 11:26	
Dichlorodifluoromethane	ug/L	ND	1.0	06/20/11 11:26	
Dichlorofluoromethane	ug/L	ND	1.0	06/20/11 11:26	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	06/20/11 11:26	
Ethylbenzene	ug/L	ND	1.0	06/20/11 11:26	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/20/11 11:26	
Iodomethane	ug/L	ND	4.0	06/20/11 11:26	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	06/20/11 11:26	
m&p-Xylene	ug/L	ND	2.0	06/20/11 11:26	
Methyl-tert-butyl ether	ug/L	ND	1.0	06/20/11 11:26	
Methylene Chloride	ug/L	ND	4.0	06/20/11 11:26	
n-Butylbenzene	ug/L	ND	1.0	06/20/11 11:26	
n-Propylbenzene	ug/L	ND	1.0	06/20/11 11:26	
Naphthalene	ug/L	ND	4.0	06/20/11 11:26	
o-Xylene	ug/L	ND	1.0	06/20/11 11:26	
p-Isopropyltoluene	ug/L	ND	1.0	06/20/11 11:26	
sec-Butylbenzene	ug/L	ND	1.0	06/20/11 11:26	
Styrene	ug/L	ND	1.0	06/20/11 11:26	
tert-Butylbenzene	ug/L	ND	1.0	06/20/11 11:26	
Tetrachloroethene	ug/L	ND	1.0	06/20/11 11:26	
Tetrahydrofuran	ug/L	ND	10.0	06/20/11 11:26	
Toluene	ug/L	ND	1.0	06/20/11 11:26	
trans-1,2-Dichloroethene	ug/L	ND	4.0	06/20/11 11:26	
trans-1,3-Dichloropropene	ug/L	ND	4.0	06/20/11 11:26	
Trichloroethene	ug/L	ND	1.0	06/20/11 11:26	
Trichlorofluoromethane	ug/L	ND	1.0	06/20/11 11:26	
Vinyl acetate	ug/L	ND	10.0	06/20/11 11:26	
Vinyl chloride	ug/L	ND	0.40	06/20/11 11:26	
Xylene (Total)	ug/L	ND	3.0	06/20/11 11:26	
1,2-Dichloroethane-d4 (S)	%	104	75-125	06/20/11 11:26	
4-Bromofluorobenzene (S)	%	99	75-125	06/20/11 11:26	
Dibromofluoromethane (S)	%	104	75-125	06/20/11 11:26	
Toluene-d8 (S)	%	95	75-125	06/20/11 11:26	

LABORATORY CONTROL SAMPLE: 998546

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.3	101	75-129	
1,1,1-Trichloroethane	ug/L	50	57.4	115	73-144	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10160727

LABORATORY CONTROL SAMPLE: 998546

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	50	52.2	104	75-125	
1,1,2-Trichloroethane	ug/L	50	53.0	106	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	47.3	95	75-143	
1,1-Dichloroethane	ug/L	50	59.4	119	75-135	
1,1-Dichloroethene	ug/L	50	59.7	119	75-133	
1,1-Dichloropropene	ug/L	50	58.7	117	75-131	
1,2,3-Trichlorobenzene	ug/L	50	47.0	94	73-141	
1,2,3-Trichloropropane	ug/L	50	53.3	107	75-126	
1,2,4-Trichlorobenzene	ug/L	50	48.6	97	70-148	
1,2,4-Trimethylbenzene	ug/L	50	52.2	104	75-141	
1,2-Dibromo-3-chloropropane	ug/L	50	47.7	95	64-135	
1,2-Dibromoethane (EDB)	ug/L	50	53.2	106	75-125	
1,2-Dichlorobenzene	ug/L	50	51.5	103	75-125	
1,2-Dichloroethane	ug/L	50	59.4	119	75-136	
1,2-Dichloropropane	ug/L	50	56.7	113	75-130	
1,3,5-Trimethylbenzene	ug/L	50	52.3	105	75-141	
1,3-Dichlorobenzene	ug/L	50	52.1	104	75-125	
1,3-Dichloropropane	ug/L	50	53.0	106	75-125	
1,4-Dichlorobenzene	ug/L	50	51.8	104	75-125	
2,2-Dichloropropane	ug/L	50	57.0	114	50-150	
2-Butanone (MEK)	ug/L	50	50.5	101	58-138	
2-Chloroethylvinyl ether	ug/L	125	117	93	50-150	
2-Chlorotoluene	ug/L	50	53.4	107	75-132	
2-Hexanone	ug/L	50	51.4	103	65-135	
2-Methylnaphthalene	ug/L	25	19.8	79	62-150	
4-Chlorotoluene	ug/L	50	53.9	108	75-135	
4-Methyl-2-pentanone (MIBK)	ug/L	50	49.3	99	69-137	
Acetone	ug/L	125	155	124	52-141	
Acrolein	ug/L	500	493	99	50-150	
Acrylonitrile	ug/L	500	560	112	75-130	
Allyl chloride	ug/L	50	58.4	117	68-150	
Benzene	ug/L	50	59.3	119	75-125	
Bromobenzene	ug/L	50	52.0	104	75-125	
Bromochloromethane	ug/L	50	57.8	116	75-129	
Bromodichloromethane	ug/L	50	54.3	109	75-142	
Bromoform	ug/L	50	43.0	86	66-135	
Bromomethane	ug/L	50	35.1	70	57-150	
Carbon disulfide	ug/L	50	58.2	116	65-132	
Carbon tetrachloride	ug/L	50	53.2	106	75-148	
Chlorobenzene	ug/L	50	53.4	107	75-125	
Chloroethane	ug/L	50	67.4	135	66-142	
Chloroform	ug/L	50	59.9	120	75-131	
Chloromethane	ug/L	50	47.9	96	52-147	
Chloroprene	ug/L	50	58.3	117	71-147	
cis-1,2-Dichloroethene	ug/L	50	59.1	118	75-126	
cis-1,3-Dichloropropene	ug/L	50	54.1	108	69-150	
Dibromochloromethane	ug/L	50	49.4	99	73-138	
Dibromomethane	ug/L	50	54.8	110	75-127	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10160727

LABORATORY CONTROL SAMPLE: 998546

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dichlorodifluoromethane	ug/L	50	45.8	92	50-150	
Dichlorofluoromethane	ug/L	50	54.9	110	75-129	
Diethyl ether (Ethyl ether)	ug/L	50	57.5	115	75-126	
Ethylbenzene	ug/L	50	55.0	110	75-132	
Hexachloro-1,3-butadiene	ug/L	25	21.5	86	75-129	
Iodomethane	ug/L	50	33.1	66	73-150	L0
Isopropylbenzene (Cumene)	ug/L	50	54.1	108	75-142	
m&p-Xylene	ug/L	100	107	107	75-131	
Methyl-tert-butyl ether	ug/L	50	58.8	118	75-130	
Methylene Chloride	ug/L	50	54.6	109	71-125	
n-Butylbenzene	ug/L	50	53.0	106	70-148	
n-Propylbenzene	ug/L	50	54.5	109	75-136	
Naphthalene	ug/L	50	49.0	98	69-145	
o-Xylene	ug/L	50	53.2	106	75-129	
p-Isopropyltoluene	ug/L	50	51.8	104	75-132	
sec-Butylbenzene	ug/L	50	52.0	104	75-136	
Styrene	ug/L	50	53.7	107	75-125	
tert-Butylbenzene	ug/L	50	51.4	103	75-135	
Tetrachloroethene	ug/L	50	53.1	106	75-125	
Tetrahydrofuran	ug/L	500	584	117	63-144	
Toluene	ug/L	50	53.1	106	75-125	
trans-1,2-Dichloroethene	ug/L	50	60.3	121	72-135	
trans-1,3-Dichloropropene	ug/L	50	50.8	102	62-150	
Trichloroethene	ug/L	50	53.1	106	75-125	
Trichlorofluoromethane	ug/L	50	59.8	120	67-150	
Vinyl acetate	ug/L	50	51.9	104	55-150	
Vinyl chloride	ug/L	50	56.1	112	63-147	
Xylene (Total)	ug/L	150	160	107	75-130	
1,2-Dichloroethane-d4 (S)	%			103	75-125	
4-Bromofluorobenzene (S)	%			99	75-125	
Dibromofluoromethane (S)	%			106	75-125	
Toluene-d8 (S)	%			94	75-125	

MATRIX SPIKE SAMPLE: 999269

Parameter	Units	10160653001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	50	53.7	107	70-136	
1,1,1-Trichloroethane	ug/L	ND	50	68.0	136	68-150	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	54.7	109	75-125	
1,1,2-Trichloroethane	ug/L	ND	50	55.5	111	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	77.2	154	75-150	M1
1,1-Dichloroethane	ug/L	ND	50	66.9	134	67-143	
1,1-Dichloroethene	ug/L	ND	50	70.5	141	75-147	
1,1-Dichloropropene	ug/L	ND	50	71.3	143	75-141	M1
1,2,3-Trichlorobenzene	ug/L	ND	50	48.7	97	71-141	
1,2,3-Trichloropropane	ug/L	ND	50	55.5	111	75-128	
1,2,4-Trichlorobenzene	ug/L	ND	50	50.7	101	61-148	

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10160727

MATRIX SPIKE SAMPLE:		999269		10160653001		Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limit	Qualifiers			
1,2,4-Trimethylbenzene	ug/L	ND	50	55.0	110	65-145				
1,2-Dibromo-3-chloropropane	ug/L	ND	50	48.7	97	64-135				
1,2-Dibromoethane (EDB)	ug/L	ND	50	54.9	110	75-126				
1,2-Dichlorobenzene	ug/L	ND	50	54.1	108	75-127				
1,2-Dichloroethane	ug/L	ND	50	62.5	125	70-138				
1,2-Dichloropropane	ug/L	ND	50	60.8	122	75-130				
1,3,5-Trimethylbenzene	ug/L	ND	50	55.4	111	61-150				
1,3-Dichlorobenzene	ug/L	ND	50	54.3	109	75-126				
1,3-Dichloropropane	ug/L	ND	50	55.0	110	75-125				
1,4-Dichlorobenzene	ug/L	ND	50	54.5	109	75-125				
2,2-Dichloropropane	ug/L	ND	50	66.9	134	50-150				
2-Butanone (MEK)	ug/L	ND	50	48.0	96	50-141				
2-Chloroethylvinyl ether	ug/L	ND	125	7.4J	6	50-150	M1			
2-Chlorotoluene	ug/L	ND	50	57.4	115	75-137				
2-Hexanone	ug/L	ND	50	50.4	101	66-135				
2-Methylnaphthalene	ug/L	ND	25	19.7	79	62-150				
4-Chlorotoluene	ug/L	ND	50	57.6	115	70-144				
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	50.8	102	62-142				
Acetone	ug/L	ND	125	132	105	50-150				
Acrolein	ug/L	ND	500	536	107	50-150				
Acrylonitrile	ug/L	ND	500	606	121	70-135				
Allyl chloride	ug/L	ND	50	67.5	135	50-150				
Benzene	ug/L	ND	50	66.2	132	75-125	M1			
Bromobenzene	ug/L	ND	50	55.8	112	75-125				
Bromochloromethane	ug/L	ND	50	60.5	121	73-137				
Bromodichloromethane	ug/L	ND	50	56.6	113	70-142				
Bromoform	ug/L	ND	50	43.5	87	55-135				
Bromomethane	ug/L	ND	50	43.7	87	50-150				
Carbon disulfide	ug/L	ND	50	71.2	142	50-150				
Carbon tetrachloride	ug/L	ND	50	65.3	131	64-150				
Chlorobenzene	ug/L	ND	50	57.5	115	75-125				
Chloroethane	ug/L	ND	50	78.3	157	59-150	M1			
Chloroform	ug/L	ND	50	65.0	130	75-132				
Chloromethane	ug/L	ND	50	58.5	117	52-150				
Chloroprene	ug/L	ND	50	70.4	141	54-150				
cis-1,2-Dichloroethene	ug/L	14.6	50	80.9	133	64-144				
cis-1,3-Dichloropropene	ug/L	ND	50	56.4	113	56-150				
Dibromochloromethane	ug/L	ND	50	51.5	103	60-138				
Dibromomethane	ug/L	ND	50	56.0	112	75-127				
Dichlorodifluoromethane	ug/L	ND	50	78.4	157	50-150	M1			
Dichlorofluoromethane	ug/L	ND	50	62.3	125	74-142				
Diethyl ether (Ethyl ether)	ug/L	ND	50	59.4	119	75-127				
Ethylbenzene	ug/L	ND	50	60.1	120	75-134				
Hexachloro-1,3-butadiene	ug/L	ND	25	22.7	91	63-150				
Iodomethane	ug/L	ND	50	40.0	80	50-150				
Isopropylbenzene (Cumene)	ug/L	ND	50	58.2	116	69-147				
m&p-Xylene	ug/L	ND	100	118	118	75-133				
Methyl-tert-butyl ether	ug/L	ND	50	60.4	121	73-131				

QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10160727

MATRIX SPIKE SAMPLE: 999269		10160653001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Methylene Chloride	ug/L	ND	50	58.5	117	68-126	
n-Butylbenzene	ug/L	ND	50	55.0	110	59-150	
n-Propylbenzene	ug/L	ND	50	59.4	119	72-143	
Naphthalene	ug/L	ND	50	49.9	100	57-148	
o-Xylene	ug/L	ND	50	56.6	113	75-131	
p-Isopropyltoluene	ug/L	ND	50	54.4	109	75-137	
sec-Butylbenzene	ug/L	ND	50	55.5	111	75-144	
Styrene	ug/L	ND	50	56.9	114	75-134	
tert-Butylbenzene	ug/L	ND	50	54.8	110	68-150	
Tetrachloroethene	ug/L	ND	50	60.8	122	75-130	
Tetrahydrofuran	ug/L	ND	500	586	117	60-148	
Toluene	ug/L	ND	50	59.7	119	75-125	
trans-1,2-Dichloroethene	ug/L	ND	50	70.7	140	75-145	
trans-1,3-Dichloropropene	ug/L	ND	50	52.7	105	50-150	
Trichloroethene	ug/L	28.4	50	87.3	118	73-132	
Trichlorofluoromethane	ug/L	ND	50	80.0	160	67-150	M1
Vinyl acetate	ug/L	ND	50	54.7	109	50-150	
Vinyl chloride	ug/L	1.7	50	71.7	140	63-150	
Xylene (Total)	ug/L	ND	150	175	116	72-138	
1,2-Dichloroethane-d4 (S)	%				104	75-125	
4-Bromofluorobenzene (S)	%				102	75-125	
Dibromofluoromethane (S)	%				106	75-125	
Toluene-d8 (S)	%				96	75-125	

SAMPLE DUPLICATE: 999270

Parameter	Units	10160653002	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
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: CRC City of Rochester

Pace Project No.: 10160727

SAMPLE DUPLICATE: 999270

Parameter	Units	10160653002 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	20.2	20.9	4	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: CRC City of Rochester

Pace Project No.: 10160727

SAMPLE DUPLICATE: 999270

Parameter	Units	10160653002 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	1J		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	19.6	20.3	3	30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl acetate	ug/L	ND	ND		30	
Vinyl chloride	ug/L	0.71	0.68	3	30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	105	104	2		
4-Bromofluorobenzene (S)	%	99	98	.4		
Dibromofluoromethane (S)	%	107	105	1		
Toluene-d8 (S)	%	95	96	.6		

QUALIFIERS

Project: CRC City of Rochester

Pace Project No.: 10160727

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.

SG - Silica Gel - Clean-Up

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

ANALYTE QUALIFIERS

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC City of Rochester

Pace Project No.: 10160727

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10160727001	AS-Influent	EPA 624	MSV/17212		
10160727002	AS-Effluent	EPA 624	MSV/17212		
10160727003	Trip Blank	EPA 624	MSV/17212		

CHAIN-OF-CUSTODY / Analytical Request Document

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

10160727

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	Section D Requested Analysis Filtered (Y/N)
Company: Landmark Environmental	Report To: Jason Skramstad	Attention: Jason Skramstad	
Address: 2042 W. 98th St.	Copy To: Eric Gabrielson	Company Name: Landmark Environmental LLC	
Bloomington, MA 05431	Purchase Order No.:	Address: 2042 W. 98th St. Bloomington MA	
Email To: jskramstad@landmarkenv.com	Project Name: City of Rochester	City: Rochester	
Phone: 952-887-9605	Project Number: CRC	State: MA	
Requested Due Date/TAT: Normal			

ITEM #	Matrix Codes MATRIX I CODE	Matrix Codes MATRIX II CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		DATE	TIME	DATE	TIME	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	Temp in °C	Received on	Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)	
				COMPOSITE START	COMPOSITE END/GRAB																	
1	AS - Influent		W G	6/16/11 12:10		6/17/11 11:01		6/17/11 14:50		AT/Ace	6/17/11 14:50		AT/Ace	6/17/11 14:50		30 Y						
2	AS - Effluent		W G	6/16/11 12:50																		
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
20																						
22																						

ORIGINAL

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: **Jason Skramstad**
 SIGNATURE of SAMPLER: *[Signature]*
 DATE Signed (MM/DD/YYYY): **6/17/11**

Sample Condition Upon Receipt

Client Name: Landmark **Project #** 10160227

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____
Tracking #: _____
Custody Seal on Cooler/Box Present: yes no **Seals intact:** yes no

Optional:
Proj. Due Date:
Proj. Name:

Packing Material: Bubble Wrap Bubble Bags None Other _____ **Temp Blank:** Yes No _____

Thermometer Used 80344042 or 80512447 **Type of Ice:** Wet Blue None Samples on Ice, cooling process has begun

Cooler Temperature 3.0 **Biological Tissue is Frozen:** Yes No _____
 Temp should be above freezing to 6°C **Comments:** _____

Date and Initials of person examining contents: <u>6/17/11 SA</u>

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>TB not on the COC</u>
-Includes date/time/ID/Analysis Matrix: <u>WT</u>		
All containers needing acid/base preservation have been checked. Noncompliance are noted in 13.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Samp #
Exceptions: <u>VOA</u> , Coliform, TOC, Oil and Grease, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed: <u>ALT</u> Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16. <u>2WT</u>
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>060311-1</u>		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: CNW **Date:** 6/20/11

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)

May 27, 2011

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

RE: Project: CRC City of Rochester
Pace Project No.: 10158012

Dear Mr. Skramstad:

Enclosed are the analytical results for sample(s) received by the laboratory on May 20, 2011. 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@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 11

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CERTIFICATIONS

Project: CRC City of Rochester

Pace Project No.: 10158012

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

EPA Region 8 Certification #: Pace

Florida/NELAP Certification #: E87605

Georgia Certification #: 959

Idaho Certification #: MN00064

Illinois Certification #: 200011

Iowa Certification #: 368

Kansas Certification #: E-10167

Louisiana Certification #: 03086

Louisiana Certification #: LA080009

Maine Certification #: 2007029

Maryland Certification #: 322

Michigan DEQ Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT CERT0092

Nevada Certification #: MN_00064

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New Mexico Certification #: Pace

New York Certification #: 11647

North Carolina Certification #: 530

North Dakota Certification #: R-036

North Dakota Certification #: R-036A

Ohio VAP Certification #: CL101

Oklahoma Certification #: D9921

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Tennessee Certification #: 02818

Texas Certification #: T104704192

Washington Certification #: C754

Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: CRC City of Rochester

Pace Project No.: 10158012

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10158012001	DPE-EXHAUST-0416	Air	05/19/11 14:30	05/20/11 10:56
10158012002	0413	Air		05/20/11 10:56

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: CRC City of Rochester

Pace Project No.: 10158012

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10158012001	DPE-EXHAUST-0416	TO-15	CJR	61

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10158012

Sample: DPE-EXHAUST-0416		Lab ID: 10158012001	Collected: 05/19/11 14:30	Received: 05/20/11 10:56	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	ND	ug/m3	122	254.4		05/25/11 21:19	67-64-1	
Benzene	ND	ug/m3	82.7	254.4		05/25/11 21:19	71-43-2	
Benzyl chloride	ND	ug/m3	267	254.4		05/25/11 21:19	100-44-7	
Bromodichloromethane	ND	ug/m3	356	254.4		05/25/11 21:19	75-27-4	
Bromoform	ND	ug/m3	534	254.4		05/25/11 21:19	75-25-2	
Bromomethane	ND	ug/m3	201	254.4		05/25/11 21:19	74-83-9	
1,3-Butadiene	ND	ug/m3	114	254.4		05/25/11 21:19	106-99-0	
2-Butanone (MEK)	ND	ug/m3	153	254.4		05/25/11 21:19	78-93-3	
Carbon disulfide	ND	ug/m3	160	254.4		05/25/11 21:19	75-15-0	
Carbon tetrachloride	ND	ug/m3	163	254.4		05/25/11 21:19	56-23-5	
Chlorobenzene	ND	ug/m3	239	254.4		05/25/11 21:19	108-90-7	
Chloroethane	ND	ug/m3	137	254.4		05/25/11 21:19	75-00-3	
Chloroform	ND	ug/m3	252	254.4		05/25/11 21:19	67-66-3	
Chloromethane	ND	ug/m3	107	254.4		05/25/11 21:19	74-87-3	
Cyclohexane	ND	ug/m3	173	254.4		05/25/11 21:19	110-82-7	
Dibromochloromethane	ND	ug/m3	432	254.4		05/25/11 21:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	407	254.4		05/25/11 21:19	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	305	254.4		05/25/11 21:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	305	254.4		05/25/11 21:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	305	254.4		05/25/11 21:19	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	254	254.4		05/25/11 21:19	75-71-8	
1,1-Dichloroethane	ND	ug/m3	209	254.4		05/25/11 21:19	75-34-3	
1,2-Dichloroethane	ND	ug/m3	104	254.4		05/25/11 21:19	107-06-2	
1,1-Dichloroethene	ND	ug/m3	206	254.4		05/25/11 21:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	206	254.4		05/25/11 21:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	206	254.4		05/25/11 21:19	156-60-5	
1,2-Dichloropropane	ND	ug/m3	239	254.4		05/25/11 21:19	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	234	254.4		05/25/11 21:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	234	254.4		05/25/11 21:19	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	356	254.4		05/25/11 21:19	76-14-2	
Ethanol	ND	ug/m3	483	254.4		05/25/11 21:19	64-17-5	
Ethyl acetate	ND	ug/m3	186	254.4		05/25/11 21:19	141-78-6	
Ethylbenzene	ND	ug/m3	224	254.4		05/25/11 21:19	100-41-4	
4-Ethyltoluene	ND	ug/m3	636	254.4		05/25/11 21:19	622-96-8	
n-Heptane	ND	ug/m3	211	254.4		05/25/11 21:19	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	560	254.4		05/25/11 21:19	87-68-3	
n-Hexane	ND	ug/m3	183	254.4		05/25/11 21:19	110-54-3	
2-Hexanone	ND	ug/m3	211	254.4		05/25/11 21:19	591-78-6	
Methylene Chloride	ND	ug/m3	181	254.4		05/25/11 21:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	211	254.4		05/25/11 21:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	186	254.4		05/25/11 21:19	1634-04-4	
Naphthalene	ND	ug/m3	687	254.4		05/25/11 21:19	91-20-3	
2-Propanol	ND	ug/m3	636	254.4		05/25/11 21:19	67-63-0	
Propylene	ND	ug/m3	89.0	254.4		05/25/11 21:19	115-07-1	
Styrene	ND	ug/m3	221	254.4		05/25/11 21:19	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	178	254.4		05/25/11 21:19	79-34-5	
Tetrachloroethene	6270	ug/m3	175	254.4		05/25/11 21:19	127-18-4	

Date: 05/27/2011 03:57 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10158012

Sample: DPE-EXHAUST-0416		Lab ID: 10158012001	Collected: 05/19/11 14:30	Received: 05/20/11 10:56	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Tetrahydrofuran	ND	ug/m3	153	254.4		05/25/11 21:19	109-99-9	
Toluene	ND	ug/m3	196	254.4		05/25/11 21:19	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	252	254.4		05/25/11 21:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	280	254.4		05/25/11 21:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	140	254.4		05/25/11 21:19	79-00-5	
Trichloroethene	ND	ug/m3	140	254.4		05/25/11 21:19	79-01-6	
Trichlorofluoromethane	ND	ug/m3	280	254.4		05/25/11 21:19	75-69-4	
1,1,2-Trichlorotrifluoroethane	19000	ug/m3	407	254.4		05/25/11 21:19	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	254	254.4		05/25/11 21:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	254	254.4		05/25/11 21:19	108-67-8	
Vinyl acetate	ND	ug/m3	181	254.4		05/25/11 21:19	108-05-4	
Vinyl chloride	ND	ug/m3	66.1	254.4		05/25/11 21:19	75-01-4	
m&p-Xylene	ND	ug/m3	448	254.4		05/25/11 21:19	179601-23-1	
o-Xylene	ND	ug/m3	224	254.4		05/25/11 21:19	95-47-6	

QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10158012

QC Batch: AIR/12363 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10158012001

METHOD BLANK: 982497 Matrix: Air
Associated Lab Samples: 10158012001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	05/25/11 11:49	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	05/25/11 11:49	
1,1,2-Trichloroethane	ug/m3	ND	0.55	05/25/11 11:49	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	05/25/11 11:49	
1,1-Dichloroethane	ug/m3	ND	0.82	05/25/11 11:49	
1,1-Dichloroethene	ug/m3	ND	0.81	05/25/11 11:49	
1,2,4-Trichlorobenzene	ug/m3	ND	0.99	05/25/11 11:49	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	05/25/11 11:49	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	05/25/11 11:49	
1,2-Dichlorobenzene	ug/m3	ND	1.2	05/25/11 11:49	
1,2-Dichloroethane	ug/m3	ND	0.41	05/25/11 11:49	
1,2-Dichloropropane	ug/m3	ND	0.94	05/25/11 11:49	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	05/25/11 11:49	
1,3-Butadiene	ug/m3	ND	0.45	05/25/11 11:49	
1,3-Dichlorobenzene	ug/m3	ND	1.2	05/25/11 11:49	
1,4-Dichlorobenzene	ug/m3	ND	1.2	05/25/11 11:49	
2-Butanone (MEK)	ug/m3	ND	0.60	05/25/11 11:49	
2-Hexanone	ug/m3	ND	0.83	05/25/11 11:49	
2-Propanol	ug/m3	ND	2.5	05/25/11 11:49	
4-Ethyltoluene	ug/m3	ND	2.5	05/25/11 11:49	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	0.83	05/25/11 11:49	
Acetone	ug/m3	ND	0.48	05/25/11 11:49	
Benzene	ug/m3	ND	0.32	05/25/11 11:49	
Benzyl chloride	ug/m3	ND	1.0	05/25/11 11:49	
Bromodichloromethane	ug/m3	ND	1.4	05/25/11 11:49	
Bromoform	ug/m3	ND	2.1	05/25/11 11:49	
Bromomethane	ug/m3	ND	0.79	05/25/11 11:49	
Carbon disulfide	ug/m3	ND	0.63	05/25/11 11:49	
Carbon tetrachloride	ug/m3	ND	0.64	05/25/11 11:49	
Chlorobenzene	ug/m3	ND	0.94	05/25/11 11:49	
Chloroethane	ug/m3	ND	0.54	05/25/11 11:49	
Chloroform	ug/m3	ND	0.99	05/25/11 11:49	
Chloromethane	ug/m3	ND	0.42	05/25/11 11:49	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	05/25/11 11:49	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	05/25/11 11:49	
Cyclohexane	ug/m3	ND	0.68	05/25/11 11:49	
Dibromochloromethane	ug/m3	ND	1.7	05/25/11 11:49	
Dichlorodifluoromethane	ug/m3	ND	1.0	05/25/11 11:49	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	05/25/11 11:49	
Ethanol	ug/m3	ND	1.9	05/25/11 11:49	
Ethyl acetate	ug/m3	ND	0.73	05/25/11 11:49	
Ethylbenzene	ug/m3	ND	0.88	05/25/11 11:49	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	05/25/11 11:49	

Date: 05/27/2011 03:57 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10158012

METHOD BLANK: 982497

Matrix: Air

Associated Lab Samples: 10158012001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/m3	ND	1.8	05/25/11 11:49	
Methyl-tert-butyl ether	ug/m3	ND	0.73	05/25/11 11:49	
Methylene Chloride	ug/m3	ND	0.71	05/25/11 11:49	
n-Heptane	ug/m3	ND	0.83	05/25/11 11:49	
n-Hexane	ug/m3	ND	0.72	05/25/11 11:49	
Naphthalene	ug/m3	ND	2.7	05/25/11 11:49	
o-Xylene	ug/m3	ND	0.88	05/25/11 11:49	
Propylene	ug/m3	ND	0.35	05/25/11 11:49	
Styrene	ug/m3	ND	0.87	05/25/11 11:49	
Tetrachloroethene	ug/m3	ND	0.69	05/25/11 11:49	
Tetrahydrofuran	ug/m3	ND	0.60	05/25/11 11:49	
Toluene	ug/m3	ND	0.77	05/25/11 11:49	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	05/25/11 11:49	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	05/25/11 11:49	
Trichloroethene	ug/m3	ND	0.55	05/25/11 11:49	
Trichlorofluoromethane	ug/m3	ND	1.1	05/25/11 11:49	
Vinyl acetate	ug/m3	ND	0.71	05/25/11 11:49	
Vinyl chloride	ug/m3	ND	0.26	05/25/11 11:49	

LABORATORY CONTROL SAMPLE: 982498

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	66.6	120	66-133	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	83.1	119	70-140	
1,1,2-Trichloroethane	ug/m3	55.5	65.3	118	68-132	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	93.0	119	60-137	
1,1-Dichloroethane	ug/m3	41.2	47.1	114	65-131	
1,1-Dichloroethene	ug/m3	40.3	48.4	120	65-132	
1,2,4-Trichlorobenzene	ug/m3	75.5	132	175	30-150	CH,L3
1,2,4-Trimethylbenzene	ug/m3	50	60.2	120	69-140	
1,2-Dibromoethane (EDB)	ug/m3	78.1	91.7	117	71-139	
1,2-Dichlorobenzene	ug/m3	61.2	74.3	122	68-139	
1,2-Dichloroethane	ug/m3	41.2	49.5	120	66-132	
1,2-Dichloropropane	ug/m3	47	53.9	115	69-130	
1,3,5-Trimethylbenzene	ug/m3	50	59.0	118	70-141	
1,3-Butadiene	ug/m3	22.5	25.5	113	68-128	
1,3-Dichlorobenzene	ug/m3	61.2	75.3	123	66-146	
1,4-Dichlorobenzene	ug/m3	61.2	75.3	123	66-142	
2-Butanone (MEK)	ug/m3	30	31.5	105	68-134	
2-Hexanone	ug/m3	41.7	47.6	114	70-144	
2-Propanol	ug/m3	23.8	30.3	128	66-139	
4-Ethyltoluene	ug/m3	50	58.2	116	65-145	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	48.7	117	70-139	
Acetone	ug/m3	24.2	29.7	123	56-142	
Benzene	ug/m3	32.5	37.6	116	69-129	

Date: 05/27/2011 03:57 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10158012

LABORATORY CONTROL SAMPLE: 982498

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzyl chloride	ug/m3	52.5	63.7	121	68-138	
Bromodichloromethane	ug/m3	68.2	81.3	119	70-130	
Bromoform	ug/m3	105	124	118	67-147	
Bromomethane	ug/m3	39.5	47.5	120	67-127	SS
Carbon disulfide	ug/m3	31.7	38.1	120	65-131	
Carbon tetrachloride	ug/m3	64	78.3	122	62-137	
Chlorobenzene	ug/m3	46.8	54.3	116	72-133	
Chloroethane	ug/m3	26.8	30.6	114	66-127	SS
Chloroform	ug/m3	49.7	57.4	116	67-130	
Chloromethane	ug/m3	21	24.4	116	63-127	
cis-1,2-Dichloroethene	ug/m3	40.3	45.0	112	69-130	
cis-1,3-Dichloropropene	ug/m3	46.2	53.2	115	74-137	
Cyclohexane	ug/m3	35	40.8	117	69-137	
Dibromochloromethane	ug/m3	86.6	103	118	69-140	
Dichlorodifluoromethane	ug/m3	50.3	59.8	119	62-131	
Dichlorotetrafluoroethane	ug/m3	71.1	82.7	116	63-130	
Ethanol	ug/m3	19.2	23.7	124	63-135	SS
Ethyl acetate	ug/m3	36.6	42.9	117	70-135	
Ethylbenzene	ug/m3	44.2	51.7	117	71-141	
Hexachloro-1,3-butadiene	ug/m3	108	211	195	30-150	CH,L3
m&p-Xylene	ug/m3	88.3	103	117	68-144	
Methyl-tert-butyl ether	ug/m3	36.7	43.4	118	54-136	
Methylene Chloride	ug/m3	35.3	41.7	118	56-143	
n-Heptane	ug/m3	41.7	48.0	115	72-130	
n-Hexane	ug/m3	35.8	40.8	114	68-130	
Naphthalene	ug/m3	53.3	86.3	162	30-150	CH,L1
o-Xylene	ug/m3	44.2	51.7	117	70-141	
Propylene	ug/m3	17.5	19.5	111	61-139	
Styrene	ug/m3	43.3	51.0	118	68-145	
Tetrachloroethene	ug/m3	69	79.0	114	64-142	
Tetrahydrofuran	ug/m3	30	34.7	116	70-134	SS
Toluene	ug/m3	38.3	45.5	119	69-133	
trans-1,2-Dichloroethene	ug/m3	40.3	45.5	113	64-132	
trans-1,3-Dichloropropene	ug/m3	46.2	55.0	119	71-140	
Trichloroethene	ug/m3	54.6	63.9	117	68-132	
Trichlorofluoromethane	ug/m3	57.1	69.1	121	59-136	
Vinyl acetate	ug/m3	35.8	41.7	116	70-142	
Vinyl chloride	ug/m3	26	29.9	115	64-129	

QUALIFIERS

Project: CRC City of Rochester

Pace Project No.: 10158012

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.

SG - Silica Gel - Clean-Up

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

SAMPLE QUALIFIERS

Sample: 10158012001

[1] This result is reported from a serial dilution

[2] The Total Hydrocarbon (THC) pattern occurred in the first half of the chromatogram (before toluene).

ANALYTE QUALIFIERS

CH The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

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.

SS This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC City of Rochester

Pace Project No.: 10158012

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10158012001	DPE-EXHAUST-0416	TO-15	AIR/12363		



CHAIN-OF-CUSTODY / Analytical Request Document

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

10/58012

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, Fax: 952-887-9605
 ext 205

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 GA IL IN MI VC
LOCATION OH SC WI OTHER

#	ITEM	Valid Matrix Codes	Required Client Information	MATRIX CODE	SAMPLE ID	COLLECTED		# OF CONTAINERS	PRESERVATIVES	Filtered (Y/N)	Requested Amt	Pace Project Number	Lab I.D.
						DATE	TIME						
1	D	DRINKING WATER	DW	DW	0416	5/19/11	8:30	5/19/11	14:30				
2	P	WASTE WATER	WW	WW									
3	E	WASTE WATER	WW	WW									
4	X	WASTE WATER	WW	WW									
5	H	WASTE WATER	WW	WW									
6	A	WASTE WATER	WW	WW									
7	U	WASTE WATER	WW	WW									
8	S	WASTE WATER	WW	WW									
9	T	WASTE WATER	WW	WW									
10	-	WASTE WATER	WW	WW									
11	0	WASTE WATER	WW	WW									
12	1	WASTE WATER	WW	WW									
13	4	WASTE WATER	WW	WW									
14	1	WASTE WATER	WW	WW									
15	6	WASTE WATER	WW	WW									
16	5	WASTE WATER	WW	WW									
17	6	WASTE WATER	WW	WW									
18	7	WASTE WATER	WW	WW									
19	8	WASTE WATER	WW	WW									
20	8	WASTE WATER	WW	WW									

Additional Comments:

RELINQUISHED BY / AFFILIATION: [Signature] DATE: 5-20-11 TIME: 10:36 AM

ACCEPTED BY / AFFILIATION: [Signature] DATE: 5-20-11 TIME: 10:36 AM

SAMPLE CONDITIONS: Received on ice Y/N, Custody Sealed Cooler Y/N, Samples Intact Y/N

SAMPLER NAME AND SIGNATURE: [Signature] PRINT Name of SAMPLER: [Name] DATE Signed (MM/DD/YY): [Date]



AIR Sample Condition Upon Receipt

Client Name: LANDMARK Project # 10158012

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 #: _____

Comments: _____

Date and Initials of person examining contents: S-20-11 JK

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

Samples Received: 2 CANS, 2 FCS

Canisters		Flow Controllers		Stand Alone G.		Tedlar Bags	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
<u>DPE-EXHAUST</u>	<u>04116</u>		<u>FC0216</u>				
	<u>04113</u>		<u>FC0224</u>				

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: CM

Date: 5/23/11

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)

June 03, 2011

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

RE: Project: CRC City of Rochester
Pace Project No.: 10158024

Dear Mr. Skramstad:

Enclosed are the analytical results for sample(s) received by the laboratory on May 20, 2011. 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@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CRC City of Rochester

Pace Project No.: 10158024

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

EPA Region 8 Certification #: Pace

Florida/NELAP Certification #: E87605

Georgia Certification #: 959

Idaho Certification #: MN00064

Illinois Certification #: 200011

Iowa Certification #: 368

Kansas Certification #: E-10167

Louisiana Certification #: 03086

Louisiana Certification #: LA080009

Maine Certification #: 2007029

Maryland Certification #: 322

Michigan DEQ Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT CERT0092

Nevada Certification #: MN_00064

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New Mexico Certification #: Pace

New York Certification #: 11647

North Carolina Certification #: 530

North Dakota Certification #: R-036

North Dakota Certification #: R-036A

Ohio VAP Certification #: CL101

Oklahoma Certification #: D9921

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Tennessee Certification #: 02818

Texas Certification #: T104704192

Washington Certification #: C754

Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: CRC City of Rochester

Pace Project No.: 10158024

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10158024001	MW-14	Water	05/19/11 06:00	05/20/11 10:56
10158024002	MW-15	Water	05/19/11 06:30	05/20/11 10:56
10158024003	MW-16	Water	05/19/11 09:00	05/20/11 10:56
10158024004	MW-17	Water	05/19/11 08:00	05/20/11 10:56
10158024005	MW-18	Water	05/19/11 07:00	05/20/11 10:56
10158024006	MW-19	Water	05/19/11 09:30	05/20/11 10:56
10158024007	MW-20	Water	05/19/11 08:30	05/20/11 10:56

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SAMPLE ANALYTE COUNT

Project: CRC City of Rochester

Pace Project No.: 10158024

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10158024001	MW-14	EPA 8260	DJT	73
10158024002	MW-15	EPA 8260	DJT	73
10158024003	MW-16	EPA 8260	DJT, ECB	73
10158024004	MW-17	EPA 8260	DJT	73
10158024005	MW-18	EPA 8260	KT1	73
10158024006	MW-19	EPA 8260	KT1	73
10158024007	MW-20	EPA 8260	KT1	73

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10158024

Sample: MW-14	Lab ID: 10158024001	Collected: 05/19/11 06:00	Received: 05/20/11 10:56	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
Acetone	ND	ug/L	25.0	1		05/25/11 01:32	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		05/25/11 01:32	107-05-1	
Benzene	ND	ug/L	1.0	1		05/25/11 01:32	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/25/11 01:32	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/25/11 01:32	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/25/11 01:32	75-27-4	
Bromoform	ND	ug/L	4.0	1		05/25/11 01:32	75-25-2	
Bromomethane	ND	ug/L	4.0	1		05/25/11 01:32	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		05/25/11 01:32	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/25/11 01:32	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/25/11 01:32	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/25/11 01:32	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		05/25/11 01:32	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/25/11 01:32	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/25/11 01:32	75-00-3	
Chloroform	1.9	ug/L	1.0	1		05/25/11 01:32	67-66-3	
Chloromethane	ND	ug/L	4.0	1		05/25/11 01:32	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/25/11 01:32	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/25/11 01:32	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		05/25/11 01:32	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/25/11 01:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/25/11 01:32	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		05/25/11 01:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/25/11 01:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/25/11 01:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/25/11 01:32	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/25/11 01:32	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/25/11 01:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/25/11 01:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/25/11 01:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/25/11 01:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	4.0	1		05/25/11 01:32	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		05/25/11 01:32	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		05/25/11 01:32	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/25/11 01:32	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		05/25/11 01:32	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/25/11 01:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		05/25/11 01:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		05/25/11 01:32	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		05/25/11 01:32	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		05/25/11 01:32	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/25/11 01:32	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/25/11 01:32	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/25/11 01:32	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		05/25/11 01:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		05/25/11 01:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/25/11 01:32	1634-04-4	

Date: 06/03/2011 01:27 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10158024

Sample: MW-14		Lab ID: 10158024001	Collected: 05/19/11 06:00	Received: 05/20/11 10:56	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		05/25/11 01:32	91-20-3	
n-Propylbenzene	ND ug/L		1.0	1		05/25/11 01:32	103-65-1	
Styrene	ND ug/L		1.0	1		05/25/11 01:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		05/25/11 01:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		05/25/11 01:32	79-34-5	
Tetrachloroethene	5.0 ug/L		1.0	1		05/25/11 01:32	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	1		05/25/11 01:32	109-99-9	
Toluene	ND ug/L		1.0	1		05/25/11 01:32	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		05/25/11 01:32	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		05/25/11 01:32	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		05/25/11 01:32	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		05/25/11 01:32	79-00-5	
Trichloroethene	ND ug/L		1.0	1		05/25/11 01:32	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		05/25/11 01:32	75-69-4	
1,2,3-Trichloropropane	ND ug/L		4.0	1		05/25/11 01:32	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	1		05/25/11 01:32	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		05/25/11 01:32	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		05/25/11 01:32	108-67-8	
Vinyl chloride	ND ug/L		0.40	1		05/25/11 01:32	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		05/25/11 01:32	1330-20-7	
m&p-Xylene	ND ug/L		2.0	1		05/25/11 01:32	179601-23-1	
o-Xylene	ND ug/L		1.0	1		05/25/11 01:32	95-47-6	
Dibromofluoromethane (S)	100 %		75-125	1		05/25/11 01:32	1868-53-7	
1,2-Dichloroethane-d4 (S)	116 %		75-125	1		05/25/11 01:32	17060-07-0	
Toluene-d8 (S)	101 %		75-125	1		05/25/11 01:32	2037-26-5	
4-Bromofluorobenzene (S)	104 %		75-125	1		05/25/11 01:32	460-00-4	

Sample: MW-15		Lab ID: 10158024002	Collected: 05/19/11 06:30	Received: 05/20/11 10:56	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		05/25/11 01:49	67-64-1	
Allyl chloride	ND ug/L		4.0	1		05/25/11 01:49	107-05-1	
Benzene	ND ug/L		1.0	1		05/25/11 01:49	71-43-2	
Bromobenzene	ND ug/L		1.0	1		05/25/11 01:49	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		05/25/11 01:49	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		05/25/11 01:49	75-27-4	
Bromoform	ND ug/L		4.0	1		05/25/11 01:49	75-25-2	
Bromomethane	ND ug/L		4.0	1		05/25/11 01:49	74-83-9	
2-Butanone (MEK)	ND ug/L		4.0	1		05/25/11 01:49	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		05/25/11 01:49	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		05/25/11 01:49	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		05/25/11 01:49	98-06-6	
Carbon tetrachloride	ND ug/L		1.0	1		05/25/11 01:49	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		05/25/11 01:49	108-90-7	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Sample Project No.: 10158024

Sample: MW-15	Lab ID: 10158024002	Collected: 05/19/11 06:30	Received: 05/20/11 10:56	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		05/25/11 01:49	75-00-3	
Chloroform	2.8	ug/L	1.0	1		05/25/11 01:49	67-66-3	
Chloromethane	ND	ug/L	4.0	1		05/25/11 01:49	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/25/11 01:49	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/25/11 01:49	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		05/25/11 01:49	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/25/11 01:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/25/11 01:49	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		05/25/11 01:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/25/11 01:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/25/11 01:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/25/11 01:49	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/25/11 01:49	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/25/11 01:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/25/11 01:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/25/11 01:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/25/11 01:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	4.0	1		05/25/11 01:49	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		05/25/11 01:49	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		05/25/11 01:49	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/25/11 01:49	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		05/25/11 01:49	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/25/11 01:49	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		05/25/11 01:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		05/25/11 01:49	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		05/25/11 01:49	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		05/25/11 01:49	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/25/11 01:49	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/25/11 01:49	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/25/11 01:49	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		05/25/11 01:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		05/25/11 01:49	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/25/11 01:49	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		05/25/11 01:49	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/25/11 01:49	103-65-1	
Styrene	ND	ug/L	1.0	1		05/25/11 01:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/25/11 01:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/25/11 01:49	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/25/11 01:49	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/25/11 01:49	109-99-9	
Toluene	ND	ug/L	1.0	1		05/25/11 01:49	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/25/11 01:49	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/25/11 01:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/25/11 01:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/25/11 01:49	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/25/11 01:49	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/25/11 01:49	75-69-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10158024

Sample: MW-15		Lab ID: 10158024002	Collected: 05/19/11 06:30	Received: 05/20/11 10:56	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		4.0	1		05/25/11 01:49	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	1		05/25/11 01:49	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		05/25/11 01:49	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		05/25/11 01:49	108-67-8	
Vinyl chloride	ND ug/L		0.40	1		05/25/11 01:49	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		05/25/11 01:49	1330-20-7	
m&p-Xylene	ND ug/L		2.0	1		05/25/11 01:49	179601-23-1	
o-Xylene	ND ug/L		1.0	1		05/25/11 01:49	95-47-6	
Dibromofluoromethane (S)	99 %		75-125	1		05/25/11 01:49	1868-53-7	
1,2-Dichloroethane-d4 (S)	114 %		75-125	1		05/25/11 01:49	17060-07-0	
Toluene-d8 (S)	102 %		75-125	1		05/25/11 01:49	2037-26-5	
4-Bromofluorobenzene (S)	105 %		75-125	1		05/25/11 01:49	460-00-4	

Sample: MW-16		Lab ID: 10158024003	Collected: 05/19/11 09:00	Received: 05/20/11 10:56	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	2		05/25/11 02:21	67-64-1	
Allyl chloride	ND ug/L		8.0	2		05/25/11 02:21	107-05-1	
Benzene	ND ug/L		2.0	2		05/25/11 02:21	71-43-2	
Bromobenzene	ND ug/L		2.0	2		05/25/11 02:21	108-86-1	
Bromochloromethane	ND ug/L		2.0	2		05/25/11 02:21	74-97-5	
Bromodichloromethane	ND ug/L		2.0	2		05/25/11 02:21	75-27-4	
Bromoform	ND ug/L		8.0	2		05/25/11 02:21	75-25-2	
Bromomethane	ND ug/L		8.0	2		05/25/11 02:21	74-83-9	
2-Butanone (MEK)	ND ug/L		8.0	2		05/25/11 02:21	78-93-3	
n-Butylbenzene	ND ug/L		2.0	2		05/25/11 02:21	104-51-8	
sec-Butylbenzene	ND ug/L		2.0	2		05/25/11 02:21	135-98-8	
tert-Butylbenzene	ND ug/L		2.0	2		05/25/11 02:21	98-06-6	
Carbon tetrachloride	ND ug/L		2.0	2		05/25/11 02:21	56-23-5	
Chlorobenzene	ND ug/L		2.0	2		05/25/11 02:21	108-90-7	
Chloroethane	ND ug/L		2.0	2		05/25/11 02:21	75-00-3	
Chloroform	ND ug/L		2.0	2		05/25/11 02:21	67-66-3	
Chloromethane	ND ug/L		8.0	2		05/25/11 02:21	74-87-3	
2-Chlorotoluene	ND ug/L		2.0	2		05/25/11 02:21	95-49-8	
4-Chlorotoluene	ND ug/L		2.0	2		05/25/11 02:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		8.0	2		05/25/11 02:21	96-12-8	
Dibromochloromethane	ND ug/L		2.0	2		05/25/11 02:21	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		2.0	2		05/25/11 02:21	106-93-4	
Dibromomethane	ND ug/L		8.0	2		05/25/11 02:21	74-95-3	
1,2-Dichlorobenzene	ND ug/L		2.0	2		05/25/11 02:21	95-50-1	
1,3-Dichlorobenzene	ND ug/L		2.0	2		05/25/11 02:21	541-73-1	
1,4-Dichlorobenzene	ND ug/L		2.0	2		05/25/11 02:21	106-46-7	
Dichlorodifluoromethane	ND ug/L		2.0	2		05/25/11 02:21	75-71-8	
1,1-Dichloroethane	ND ug/L		2.0	2		05/25/11 02:21	75-34-3	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Sample Project No.: 10158024

Sample: MW-16	Lab ID: 10158024003	Collected: 05/19/11 09:00	Received: 05/20/11 10:56	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	2.0	2		05/25/11 02:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	2.0	2		05/25/11 02:21	75-35-4	
cis-1,2-Dichloroethene	4.1	ug/L	2.0	2		05/25/11 02:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	8.0	2		05/25/11 02:21	156-60-5	
Dichlorofluoromethane	ND	ug/L	2.0	2		05/25/11 02:21	75-43-4	
1,2-Dichloropropane	ND	ug/L	8.0	2		05/25/11 02:21	78-87-5	
1,3-Dichloropropane	ND	ug/L	2.0	2		05/25/11 02:21	142-28-9	
2,2-Dichloropropane	ND	ug/L	8.0	2		05/25/11 02:21	594-20-7	
1,1-Dichloropropene	ND	ug/L	2.0	2		05/25/11 02:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	8.0	2		05/25/11 02:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	8.0	2		05/25/11 02:21	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	8.0	2		05/25/11 02:21	60-29-7	
Ethylbenzene	ND	ug/L	2.0	2		05/25/11 02:21	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	2		05/25/11 02:21	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	2.0	2		05/25/11 02:21	98-82-8	
p-Isopropyltoluene	ND	ug/L	2.0	2		05/25/11 02:21	99-87-6	
Methylene Chloride	ND	ug/L	8.0	2		05/25/11 02:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	8.0	2		05/25/11 02:21	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	2.0	2		05/25/11 02:21	1634-04-4	
Naphthalene	ND	ug/L	8.0	2		05/25/11 02:21	91-20-3	
n-Propylbenzene	ND	ug/L	2.0	2		05/25/11 02:21	103-65-1	
Styrene	ND	ug/L	2.0	2		05/25/11 02:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	2.0	2		05/25/11 02:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.0	2		05/25/11 02:21	79-34-5	
Tetrachloroethene	1310	ug/L	10.0	10		05/27/11 17:03	127-18-4	
Tetrahydrofuran	ND	ug/L	20.0	2		05/25/11 02:21	109-99-9	
Toluene	ND	ug/L	2.0	2		05/25/11 02:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	2		05/25/11 02:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	2		05/25/11 02:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	2.0	2		05/25/11 02:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	2.0	2		05/25/11 02:21	79-00-5	
Trichloroethene	2.0	ug/L	2.0	2		05/25/11 02:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	2.0	2		05/25/11 02:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	8.0	2		05/25/11 02:21	96-18-4	
1,1,2-Trichlorotrifluoroethane	43.6	ug/L	2.0	2		05/25/11 02:21	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	2.0	2		05/25/11 02:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	2.0	2		05/25/11 02:21	108-67-8	
Vinyl chloride	ND	ug/L	0.80	2		05/25/11 02:21	75-01-4	
Xylene (Total)	ND	ug/L	6.0	2		05/25/11 02:21	1330-20-7	
m&p-Xylene	ND	ug/L	4.0	2		05/25/11 02:21	179601-23-1	
o-Xylene	ND	ug/L	2.0	2		05/25/11 02:21	95-47-6	
Dibromofluoromethane (S)	98	%	75-125	2		05/25/11 02:21	1868-53-7	
1,2-Dichloroethane-d4 (S)	116	%	75-125	2		05/25/11 02:21	17060-07-0	
Toluene-d8 (S)	99	%	75-125	2		05/25/11 02:21	2037-26-5	
4-Bromofluorobenzene (S)	105	%	75-125	2		05/25/11 02:21	460-00-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10158024

Sample: MW-17	Lab ID: 10158024004	Collected: 05/19/11 08:00	Received: 05/20/11 10:56	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
Acetone	ND	ug/L	25.0	1		05/25/11 02:05	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		05/25/11 02:05	107-05-1	
Benzene	ND	ug/L	1.0	1		05/25/11 02:05	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/25/11 02:05	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/25/11 02:05	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/25/11 02:05	75-27-4	
Bromoform	ND	ug/L	4.0	1		05/25/11 02:05	75-25-2	
Bromomethane	ND	ug/L	4.0	1		05/25/11 02:05	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		05/25/11 02:05	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/25/11 02:05	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/25/11 02:05	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/25/11 02:05	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		05/25/11 02:05	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/25/11 02:05	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/25/11 02:05	75-00-3	
Chloroform	1.1	ug/L	1.0	1		05/25/11 02:05	67-66-3	
Chloromethane	ND	ug/L	4.0	1		05/25/11 02:05	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/25/11 02:05	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/25/11 02:05	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		05/25/11 02:05	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/25/11 02:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/25/11 02:05	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		05/25/11 02:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/25/11 02:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/25/11 02:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/25/11 02:05	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/25/11 02:05	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/25/11 02:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/25/11 02:05	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/25/11 02:05	75-35-4	
cis-1,2-Dichloroethene	1.0	ug/L	1.0	1		05/25/11 02:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	4.0	1		05/25/11 02:05	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		05/25/11 02:05	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		05/25/11 02:05	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/25/11 02:05	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		05/25/11 02:05	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/25/11 02:05	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		05/25/11 02:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		05/25/11 02:05	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		05/25/11 02:05	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		05/25/11 02:05	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/25/11 02:05	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/25/11 02:05	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/25/11 02:05	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		05/25/11 02:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		05/25/11 02:05	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/25/11 02:05	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10158024

Sample: MW-17		Lab ID: 10158024004	Collected: 05/19/11 08:00	Received: 05/20/11 10:56	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		05/25/11 02:05	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/25/11 02:05	103-65-1	
Styrene	ND	ug/L	1.0	1		05/25/11 02:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/25/11 02:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/25/11 02:05	79-34-5	
Tetrachloroethene	109	ug/L	1.0	1		05/25/11 02:05	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/25/11 02:05	109-99-9	
Toluene	ND	ug/L	1.0	1		05/25/11 02:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/25/11 02:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/25/11 02:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/25/11 02:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/25/11 02:05	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/25/11 02:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/25/11 02:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		05/25/11 02:05	96-18-4	
1,1,2-Trichlorotrifluoroethane	15.8	ug/L	1.0	1		05/25/11 02:05	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/25/11 02:05	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/25/11 02:05	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		05/25/11 02:05	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/25/11 02:05	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/25/11 02:05	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/25/11 02:05	95-47-6	
Dibromofluoromethane (S)	100	%	75-125	1		05/25/11 02:05	1868-53-7	
1,2-Dichloroethane-d4 (S)	115	%	75-125	1		05/25/11 02:05	17060-07-0	
Toluene-d8 (S)	99	%	75-125	1		05/25/11 02:05	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125	1		05/25/11 02:05	460-00-4	

Sample: MW-18		Lab ID: 10158024005	Collected: 05/19/11 07:00	Received: 05/20/11 10:56	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
Acetone	ND	ug/L	25.0	1		05/24/11 22:38	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		05/24/11 22:38	107-05-1	
Benzene	ND	ug/L	1.0	1		05/24/11 22:38	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/24/11 22:38	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/24/11 22:38	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/24/11 22:38	75-27-4	
Bromoform	ND	ug/L	4.0	1		05/24/11 22:38	75-25-2	
Bromomethane	ND	ug/L	4.0	1		05/24/11 22:38	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		05/24/11 22:38	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/24/11 22:38	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/24/11 22:38	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/24/11 22:38	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		05/24/11 22:38	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/24/11 22:38	108-90-7	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Sample Project No.: 10158024

Sample: MW-18	Lab ID: 10158024005	Collected: 05/19/11 07:00	Received: 05/20/11 10:56	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		05/24/11 22:38	75-00-3	
Chloroform	ND ug/L		1.0	1		05/24/11 22:38	67-66-3	
Chloromethane	ND ug/L		4.0	1		05/24/11 22:38	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	1		05/24/11 22:38	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		05/24/11 22:38	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	1		05/24/11 22:38	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		05/24/11 22:38	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		05/24/11 22:38	106-93-4	
Dibromomethane	ND ug/L		4.0	1		05/24/11 22:38	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		05/24/11 22:38	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		05/24/11 22:38	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		05/24/11 22:38	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		05/24/11 22:38	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		05/24/11 22:38	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		05/24/11 22:38	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		05/24/11 22:38	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		05/24/11 22:38	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		4.0	1		05/24/11 22:38	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	1		05/24/11 22:38	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	1		05/24/11 22:38	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		05/24/11 22:38	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	1		05/24/11 22:38	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		05/24/11 22:38	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	1		05/24/11 22:38	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	1		05/24/11 22:38	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	1		05/24/11 22:38	60-29-7	
Ethylbenzene	ND ug/L		1.0	1		05/24/11 22:38	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		05/24/11 22:38	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		05/24/11 22:38	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		05/24/11 22:38	99-87-6	
Methylene Chloride	ND ug/L		4.0	1		05/24/11 22:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		4.0	1		05/24/11 22:38	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		05/24/11 22:38	1634-04-4	
Naphthalene	ND ug/L		4.0	1		05/24/11 22:38	91-20-3	
n-Propylbenzene	ND ug/L		1.0	1		05/24/11 22:38	103-65-1	
Styrene	ND ug/L		1.0	1		05/24/11 22:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		05/24/11 22:38	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		05/24/11 22:38	79-34-5	
Tetrachloroethene	3.6 ug/L		1.0	1		05/24/11 22:38	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	1		05/24/11 22:38	109-99-9	
Toluene	ND ug/L		1.0	1		05/24/11 22:38	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		05/24/11 22:38	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		05/24/11 22:38	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		05/24/11 22:38	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		05/24/11 22:38	79-00-5	
Trichloroethene	ND ug/L		1.0	1		05/24/11 22:38	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		05/24/11 22:38	75-69-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10158024

Sample: MW-18		Lab ID: 10158024005	Collected: 05/19/11 07:00	Received: 05/20/11 10:56	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		4.0	1		05/24/11 22:38	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	1		05/24/11 22:38	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		05/24/11 22:38	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		05/24/11 22:38	108-67-8	
Vinyl chloride	ND ug/L		0.40	1		05/24/11 22:38	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		05/24/11 22:38	1330-20-7	
m&p-Xylene	ND ug/L		2.0	1		05/24/11 22:38	179601-23-1	
o-Xylene	ND ug/L		1.0	1		05/24/11 22:38	95-47-6	
Dibromofluoromethane (S)	101 %		75-125	1		05/24/11 22:38	1868-53-7	
1,2-Dichloroethane-d4 (S)	101 %		75-125	1		05/24/11 22:38	17060-07-0	
Toluene-d8 (S)	99 %		75-125	1		05/24/11 22:38	2037-26-5	
4-Bromofluorobenzene (S)	101 %		75-125	1		05/24/11 22:38	460-00-4	

Sample: MW-19		Lab ID: 10158024006	Collected: 05/19/11 09:30	Received: 05/20/11 10:56	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		05/24/11 22:59	67-64-1	
Allyl chloride	ND ug/L		4.0	1		05/24/11 22:59	107-05-1	
Benzene	ND ug/L		1.0	1		05/24/11 22:59	71-43-2	
Bromobenzene	ND ug/L		1.0	1		05/24/11 22:59	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		05/24/11 22:59	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		05/24/11 22:59	75-27-4	
Bromoform	ND ug/L		4.0	1		05/24/11 22:59	75-25-2	
Bromomethane	ND ug/L		4.0	1		05/24/11 22:59	74-83-9	
2-Butanone (MEK)	ND ug/L		4.0	1		05/24/11 22:59	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		05/24/11 22:59	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		05/24/11 22:59	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		05/24/11 22:59	98-06-6	
Carbon tetrachloride	ND ug/L		1.0	1		05/24/11 22:59	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		05/24/11 22:59	108-90-7	
Chloroethane	ND ug/L		1.0	1		05/24/11 22:59	75-00-3	
Chloroform	ND ug/L		1.0	1		05/24/11 22:59	67-66-3	
Chloromethane	ND ug/L		4.0	1		05/24/11 22:59	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	1		05/24/11 22:59	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		05/24/11 22:59	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	1		05/24/11 22:59	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		05/24/11 22:59	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		05/24/11 22:59	106-93-4	
Dibromomethane	ND ug/L		4.0	1		05/24/11 22:59	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		05/24/11 22:59	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		05/24/11 22:59	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		05/24/11 22:59	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		05/24/11 22:59	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		05/24/11 22:59	75-34-3	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Sample Project No.: 10158024

Sample: MW-19	Lab ID: 10158024006	Collected: 05/19/11 09:30	Received: 05/20/11 10:56	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		1.0	1		05/24/11 22:59	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		05/24/11 22:59	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		05/24/11 22:59	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		4.0	1		05/24/11 22:59	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	1		05/24/11 22:59	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	1		05/24/11 22:59	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		05/24/11 22:59	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	1		05/24/11 22:59	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		05/24/11 22:59	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	1		05/24/11 22:59	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	1		05/24/11 22:59	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	1		05/24/11 22:59	60-29-7	
Ethylbenzene	ND ug/L		1.0	1		05/24/11 22:59	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		05/24/11 22:59	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		05/24/11 22:59	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		05/24/11 22:59	99-87-6	
Methylene Chloride	ND ug/L		4.0	1		05/24/11 22:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		4.0	1		05/24/11 22:59	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		05/24/11 22:59	1634-04-4	
Naphthalene	ND ug/L		4.0	1		05/24/11 22:59	91-20-3	
n-Propylbenzene	ND ug/L		1.0	1		05/24/11 22:59	103-65-1	
Styrene	ND ug/L		1.0	1		05/24/11 22:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		05/24/11 22:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		05/24/11 22:59	79-34-5	
Tetrachloroethene	4.7 ug/L		1.0	1		05/24/11 22:59	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	1		05/24/11 22:59	109-99-9	
Toluene	ND ug/L		1.0	1		05/24/11 22:59	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		05/24/11 22:59	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		05/24/11 22:59	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		05/24/11 22:59	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		05/24/11 22:59	79-00-5	
Trichloroethene	ND ug/L		1.0	1		05/24/11 22:59	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		05/24/11 22:59	75-69-4	
1,2,3-Trichloropropane	ND ug/L		4.0	1		05/24/11 22:59	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	1		05/24/11 22:59	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		05/24/11 22:59	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		05/24/11 22:59	108-67-8	
Vinyl chloride	ND ug/L		0.40	1		05/24/11 22:59	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		05/24/11 22:59	1330-20-7	
m&p-Xylene	ND ug/L		2.0	1		05/24/11 22:59	179601-23-1	
o-Xylene	ND ug/L		1.0	1		05/24/11 22:59	95-47-6	
Dibromofluoromethane (S)	104 %		75-125	1		05/24/11 22:59	1868-53-7	
1,2-Dichloroethane-d4 (S)	103 %		75-125	1		05/24/11 22:59	17060-07-0	
Toluene-d8 (S)	102 %		75-125	1		05/24/11 22:59	2037-26-5	
4-Bromofluorobenzene (S)	98 %		75-125	1		05/24/11 22:59	460-00-4	

ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10158024

Sample: MW-20	Lab ID: 10158024007	Collected: 05/19/11 08:30	Received: 05/20/11 10:56	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		05/25/11 02:25	67-64-1	
Allyl chloride	ND ug/L		4.0	1		05/25/11 02:25	107-05-1	
Benzene	ND ug/L		1.0	1		05/25/11 02:25	71-43-2	
Bromobenzene	ND ug/L		1.0	1		05/25/11 02:25	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		05/25/11 02:25	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		05/25/11 02:25	75-27-4	
Bromoform	ND ug/L		4.0	1		05/25/11 02:25	75-25-2	
Bromomethane	ND ug/L		4.0	1		05/25/11 02:25	74-83-9	
2-Butanone (MEK)	ND ug/L		4.0	1		05/25/11 02:25	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		05/25/11 02:25	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		05/25/11 02:25	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		05/25/11 02:25	98-06-6	
Carbon tetrachloride	ND ug/L		1.0	1		05/25/11 02:25	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		05/25/11 02:25	108-90-7	
Chloroethane	ND ug/L		1.0	1		05/25/11 02:25	75-00-3	
Chloroform	ND ug/L		1.0	1		05/25/11 02:25	67-66-3	
Chloromethane	ND ug/L		4.0	1		05/25/11 02:25	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	1		05/25/11 02:25	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		05/25/11 02:25	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	1		05/25/11 02:25	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		05/25/11 02:25	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		05/25/11 02:25	106-93-4	
Dibromomethane	ND ug/L		4.0	1		05/25/11 02:25	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		05/25/11 02:25	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		05/25/11 02:25	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		05/25/11 02:25	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		05/25/11 02:25	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		05/25/11 02:25	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		05/25/11 02:25	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		05/25/11 02:25	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		05/25/11 02:25	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		4.0	1		05/25/11 02:25	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	1		05/25/11 02:25	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	1		05/25/11 02:25	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		05/25/11 02:25	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	1		05/25/11 02:25	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		05/25/11 02:25	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	1		05/25/11 02:25	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	1		05/25/11 02:25	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	1		05/25/11 02:25	60-29-7	
Ethylbenzene	ND ug/L		1.0	1		05/25/11 02:25	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		05/25/11 02:25	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		05/25/11 02:25	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		05/25/11 02:25	99-87-6	
Methylene Chloride	ND ug/L		4.0	1		05/25/11 02:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		4.0	1		05/25/11 02:25	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		05/25/11 02:25	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10158024

Sample: MW-20	Lab ID: 10158024007	Collected: 05/19/11 08:30	Received: 05/20/11 10:56	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		05/25/11 02:25	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/25/11 02:25	103-65-1	
Styrene	ND	ug/L	1.0	1		05/25/11 02:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/25/11 02:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/25/11 02:25	79-34-5	
Tetrachloroethene	16.8	ug/L	1.0	1		05/25/11 02:25	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/25/11 02:25	109-99-9	
Toluene	ND	ug/L	1.0	1		05/25/11 02:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/25/11 02:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/25/11 02:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/25/11 02:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/25/11 02:25	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/25/11 02:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/25/11 02:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		05/25/11 02:25	96-18-4	
1,1,2-Trichlorotrifluoroethane	2.3	ug/L	1.0	1		05/25/11 02:25	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/25/11 02:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/25/11 02:25	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		05/25/11 02:25	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/25/11 02:25	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/25/11 02:25	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/25/11 02:25	95-47-6	
Dibromofluoromethane (S)	102	%	75-125	1		05/25/11 02:25	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	75-125	1		05/25/11 02:25	17060-07-0	
Toluene-d8 (S)	101	%	75-125	1		05/25/11 02:25	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125	1		05/25/11 02:25	460-00-4	

QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10158024

QC Batch: MSV/17005 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 10158024001, 10158024002, 10158024003, 10158024004

METHOD BLANK: 982069 Matrix: Water
Associated Lab Samples: 10158024001, 10158024002, 10158024003, 10158024004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/24/11 22:20	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/24/11 22:20	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/24/11 22:20	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/24/11 22:20	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	05/24/11 22:20	
1,1-Dichloroethane	ug/L	ND	1.0	05/24/11 22:20	
1,1-Dichloroethene	ug/L	ND	1.0	05/24/11 22:20	
1,1-Dichloropropene	ug/L	ND	1.0	05/24/11 22:20	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/24/11 22:20	
1,2,3-Trichloropropane	ug/L	ND	4.0	05/24/11 22:20	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/24/11 22:20	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	05/24/11 22:20	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	05/24/11 22:20	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/24/11 22:20	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/24/11 22:20	
1,2-Dichloroethane	ug/L	ND	1.0	05/24/11 22:20	
1,2-Dichloropropane	ug/L	ND	4.0	05/24/11 22:20	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	05/24/11 22:20	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/24/11 22:20	
1,3-Dichloropropane	ug/L	ND	1.0	05/24/11 22:20	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/24/11 22:20	
2,2-Dichloropropane	ug/L	ND	4.0	05/24/11 22:20	
2-Butanone (MEK)	ug/L	ND	4.0	05/24/11 22:20	
2-Chlorotoluene	ug/L	ND	1.0	05/24/11 22:20	
4-Chlorotoluene	ug/L	ND	1.0	05/24/11 22:20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	05/24/11 22:20	
Acetone	ug/L	ND	25.0	05/24/11 22:20	
Allyl chloride	ug/L	ND	4.0	05/24/11 22:20	
Benzene	ug/L	ND	1.0	05/24/11 22:20	
Bromobenzene	ug/L	ND	1.0	05/24/11 22:20	
Bromochloromethane	ug/L	ND	1.0	05/24/11 22:20	
Bromodichloromethane	ug/L	ND	1.0	05/24/11 22:20	
Bromoform	ug/L	ND	4.0	05/24/11 22:20	
Bromomethane	ug/L	ND	4.0	05/24/11 22:20	
Carbon tetrachloride	ug/L	ND	1.0	05/24/11 22:20	
Chlorobenzene	ug/L	ND	1.0	05/24/11 22:20	
Chloroethane	ug/L	ND	1.0	05/24/11 22:20	
Chloroform	ug/L	ND	1.0	05/24/11 22:20	
Chloromethane	ug/L	ND	4.0	05/24/11 22:20	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/24/11 22:20	
cis-1,3-Dichloropropene	ug/L	ND	4.0	05/24/11 22:20	
Dibromochloromethane	ug/L	ND	1.0	05/24/11 22:20	
Dibromomethane	ug/L	ND	4.0	05/24/11 22:20	

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10158024

METHOD BLANK: 982069

Matrix: Water

Associated Lab Samples: 10158024001, 10158024002, 10158024003, 10158024004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	05/24/11 22:20	
Dichlorofluoromethane	ug/L	ND	1.0	05/24/11 22:20	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	05/24/11 22:20	
Ethylbenzene	ug/L	ND	1.0	05/24/11 22:20	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	05/24/11 22:20	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	05/24/11 22:20	
m&p-Xylene	ug/L	ND	2.0	05/24/11 22:20	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/24/11 22:20	
Methylene Chloride	ug/L	ND	4.0	05/24/11 22:20	
n-Butylbenzene	ug/L	ND	1.0	05/24/11 22:20	
n-Propylbenzene	ug/L	ND	1.0	05/24/11 22:20	
Naphthalene	ug/L	ND	4.0	05/24/11 22:20	
o-Xylene	ug/L	ND	1.0	05/24/11 22:20	
p-Isopropyltoluene	ug/L	ND	1.0	05/24/11 22:20	
sec-Butylbenzene	ug/L	ND	1.0	05/24/11 22:20	
Styrene	ug/L	ND	1.0	05/24/11 22:20	
tert-Butylbenzene	ug/L	ND	1.0	05/24/11 22:20	
Tetrachloroethane	ug/L	ND	1.0	05/24/11 22:20	
Tetrahydrofuran	ug/L	ND	10.0	05/24/11 22:20	
Toluene	ug/L	ND	1.0	05/24/11 22:20	
trans-1,2-Dichloroethane	ug/L	ND	4.0	05/24/11 22:20	
trans-1,3-Dichloropropene	ug/L	ND	4.0	05/24/11 22:20	
Trichloroethene	ug/L	ND	1.0	05/24/11 22:20	
Trichlorofluoromethane	ug/L	ND	1.0	05/24/11 22:20	
Vinyl chloride	ug/L	ND	0.40	05/24/11 22:20	
Xylene (Total)	ug/L	ND	3.0	05/24/11 22:20	
1,2-Dichloroethane-d4 (S)	%	107	75-125	05/24/11 22:20	
4-Bromofluorobenzene (S)	%	103	75-125	05/24/11 22:20	
Dibromofluoromethane (S)	%	98	75-125	05/24/11 22:20	
Toluene-d8 (S)	%	98	75-125	05/24/11 22:20	

LABORATORY CONTROL SAMPLE: 982070

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.3	103	75-125	
1,1,1-Trichloroethane	ug/L	50	49.2	98	75-125	
1,1,2,2-Tetrachloroethane	ug/L	50	47.0	94	75-125	
1,1,2-Trichloroethane	ug/L	50	48.1	96	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	44.7	89	75-126	
1,1-Dichloroethane	ug/L	50	47.1	94	75-125	
1,1-Dichloroethene	ug/L	50	43.0	86	75-125	
1,1-Dichloropropene	ug/L	50	49.7	99	75-125	
1,2,3-Trichlorobenzene	ug/L	50	48.6	97	68-128	
1,2,3-Trichloropropane	ug/L	50	50.1	100	75-125	
1,2,4-Trichlorobenzene	ug/L	50	50.3	101	75-125	

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10158024

LABORATORY CONTROL SAMPLE: 982070

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	50	49.1	98	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	49.5	99	68-125	
1,2-Dibromoethane (EDB)	ug/L	50	48.5	97	75-125	
1,2-Dichlorobenzene	ug/L	50	48.2	96	75-125	
1,2-Dichloroethane	ug/L	50	50.9	102	71-125	
1,2-Dichloropropane	ug/L	50	49.2	98	75-125	
1,3,5-Trimethylbenzene	ug/L	50	48.9	98	75-125	
1,3-Dichlorobenzene	ug/L	50	47.1	94	75-125	
1,3-Dichloropropane	ug/L	50	49.1	98	75-125	
1,4-Dichlorobenzene	ug/L	50	48.7	97	75-125	
2,2-Dichloropropane	ug/L	50	46.5	93	69-132	
2-Butanone (MEK)	ug/L	50	46.1	92	56-137	
2-Chlorotoluene	ug/L	50	49.1	98	75-125	
4-Chlorotoluene	ug/L	50	48.9	98	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	50	54.2	108	67-125	
Acetone	ug/L	125	102	81	41-130	
Allyl chloride	ug/L	50	51.8	104	59-130	
Benzene	ug/L	50	44.6	89	75-125	
Bromobenzene	ug/L	50	47.8	96	75-125	
Bromochloromethane	ug/L	50	46.3	93	75-125	
Bromodichloromethane	ug/L	50	52.0	104	75-125	
Bromoform	ug/L	50	50.6	101	75-125	
Bromomethane	ug/L	50	44.1	88	45-138	
Carbon tetrachloride	ug/L	50	51.6	103	75-125	
Chlorobenzene	ug/L	50	48.2	96	75-125	
Chloroethane	ug/L	50	53.5	107	72-125	
Chloroform	ug/L	50	47.8	96	75-125	
Chloromethane	ug/L	50	46.6	93	65-125	
cis-1,2-Dichloroethene	ug/L	50	46.8	94	75-125	
cis-1,3-Dichloropropene	ug/L	50	50.6	101	75-125	
Dibromochloromethane	ug/L	50	50.4	101	75-125	
Dibromomethane	ug/L	50	48.8	98	75-125	
Dichlorodifluoromethane	ug/L	50	43.7	87	55-143	
Dichlorofluoromethane	ug/L	50	48.1	96	75-125	
Diethyl ether (Ethyl ether)	ug/L	50	50.5	101	75-125	
Ethylbenzene	ug/L	50	48.8	98	75-125	
Hexachloro-1,3-butadiene	ug/L	25	26.2	105	69-132	
Isopropylbenzene (Cumene)	ug/L	50	49.4	99	75-125	
m&p-Xylene	ug/L	100	95.1	95	75-125	
Methyl-tert-butyl ether	ug/L	50	47.4	95	75-125	
Methylene Chloride	ug/L	50	42.7	85	75-125	
n-Butylbenzene	ug/L	50	49.5	99	75-125	
n-Propylbenzene	ug/L	50	47.4	95	75-125	
Naphthalene	ug/L	50	48.3	97	74-129	
o-Xylene	ug/L	50	50.0	100	75-125	
p-Isopropyltoluene	ug/L	50	48.4	97	75-125	
sec-Butylbenzene	ug/L	50	48.6	97	75-125	
Styrene	ug/L	50	48.0	96	75-125	

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10158024

LABORATORY CONTROL SAMPLE: 982070

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	49.2	98	75-125	
Tetrachloroethene	ug/L	50	49.8	100	75-125	
Tetrahydrofuran	ug/L	500	438	88	64-128	
Toluene	ug/L	50	47.6	95	75-125	
trans-1,2-Dichloroethene	ug/L	50	45.7	91	75-125	
trans-1,3-Dichloropropene	ug/L	50	51.0	102	75-125	
Trichloroethene	ug/L	50	51.3	103	75-125	
Trichlorofluoromethane	ug/L	50	53.5	107	75-125	
Vinyl chloride	ug/L	50	44.2	88	74-125	
Xylene (Total)	ug/L	150	145	97	75-125	
1,2-Dichloroethane-d4 (S)	%			110	75-125	
4-Bromofluorobenzene (S)	%			102	75-125	
Dibromofluoromethane (S)	%			100	75-125	
Toluene-d8 (S)	%			100	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 982245 982246

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		10158238001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	53.7	52.9	107	106	75-125	2	30	
1,1,1-Trichloroethane	ug/L	ND	50	50	53.2	51.1	106	102	75-128	4	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	48.7	48.2	97	96	75-125	.9	30	
1,1,2-Trichloroethane	ug/L	ND	50	50	51.7	49.9	103	100	75-125	4	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	50	61.5	60.4	123	121	75-150	2	30	
1,1-Dichloroethane	ug/L	ND	50	50	49.8	48.8	100	98	75-125	2	30	
1,1-Dichloroethene	ug/L	ND	50	50	47.1	45.9	94	92	75-134	2	30	
1,1-Dichloropropene	ug/L	ND	50	50	53.5	50.8	107	102	75-131	5	30	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	49.7	48.7	99	97	67-145	2	30	
1,2,3-Trichloropropane	ug/L	ND	50	50	50.4	48.0	101	96	75-125	5	30	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	50.8	49.0	102	98	74-138	4	30	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	50.9	49.5	102	99	75-126	3	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	51.0	49.1	102	98	68-129	4	30	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	52.4	51.7	105	103	75-125	1	30	
1,2-Dichlorobenzene	ug/L	ND	50	50	50.2	49.1	100	98	75-125	2	30	
1,2-Dichloroethane	ug/L	ND	50	50	52.2	51.1	104	102	69-129	2	30	
1,2-Dichloropropane	ug/L	ND	50	50	52.3	52.2	105	104	75-125	.3	30	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	50.3	49.0	101	98	75-125	2	30	
1,3-Dichlorobenzene	ug/L	ND	50	50	50.2	47.8	100	96	75-125	5	30	
1,3-Dichloropropane	ug/L	ND	50	50	50.5	51.0	101	102	75-125	1	30	
1,4-Dichlorobenzene	ug/L	ND	50	50	50.3	49.5	101	99	75-125	2	30	
2,2-Dichloropropane	ug/L	ND	50	50	49.8	48.1	100	96	69-141	3	30	
2-Butanone (MEK)	ug/L	ND	50	50	43.6	44.0	87	88	42-137	1	30	
2-Chlorotoluene	ug/L	ND	50	50	51.6	49.7	103	99	68-147	4	30	
4-Chlorotoluene	ug/L	ND	50	50	51.0	49.7	102	99	75-130	2	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	50	55.1	54.5	110	109	57-126	1	30	
Acetone	ug/L	ND	125	125	97.9	99.0	78	79	34-130	1	30	
Allyl chloride	ug/L	ND	50	50	53.7	52.2	107	104	53-140	3	30	

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10158024

Parameter	10158238001		MS		MSD		MS		MSD		MS		MSD		% Rec		Max		Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	MS % Rec	MSD % Rec	Limits	RPD	RPD	RPD	RPD				
Benzene	ug/L	ND	50	50	47.3	46.1	95	92	95	92	73-136	3	30						
Bromobenzene	ug/L	ND	50	50	49.2	49.1	98	98	98	98	75-125	.3	30						
Bromochloromethane	ug/L	ND	50	50	47.3	46.3	95	93	95	93	75-125	2	30						
Bromodichloromethane	ug/L	ND	50	50	53.5	53.0	107	106	107	106	75-125	1	30						
Bromoform	ug/L	ND	50	50	51.4	50.9	103	102	103	102	75-125	1	30						
Bromomethane	ug/L	ND	50	50	54.4	54.5	109	109	109	109	41-150	.2	30						
Carbon tetrachloride	ug/L	ND	50	50	55.0	54.3	110	109	110	109	75-135	1	30						
Chlorobenzene	ug/L	ND	50	50	50.5	51.0	101	102	101	102	75-125	1	30						
Chloroethane	ug/L	ND	50	50	59.3	58.0	119	116	119	116	71-139	2	30						
Chloroform	ug/L	ND	50	50	50.4	48.6	101	97	101	97	75-125	4	30						
Chloromethane	ug/L	ND	50	50	50.5	49.6	101	99	101	99	65-144	2	30						
cis-1,2-Dichloroethene	ug/L	ND	50	50	48.7	46.5	97	93	97	93	75-125	5	30						
cis-1,3-Dichloropropene	ug/L	ND	50	50	51.9	51.7	104	103	104	103	75-125	.4	30						
Dibromochloromethane	ug/L	ND	50	50	54.3	53.2	109	106	109	106	75-125	2	30						
Dibromomethane	ug/L	ND	50	50	51.2	51.2	102	102	102	102	75-125	.07	30						
Dichlorodifluoromethane	ug/L	ND	50	50	62.0	60.2	124	120	124	120	55-150	3	30						
Dichlorofluoromethane	ug/L	ND	50	50	49.9	49.4	100	99	100	99	75-129	.9	30						
Diethyl ether (Ethyl ether)	ug/L	ND	50	50	48.4	47.5	97	95	97	95	75-125	2	30						
Ethylbenzene	ug/L	ND	50	50	51.9	51.0	104	102	104	102	75-137	2	30						
Hexachloro-1,3-butadiene	ug/L	ND	25	25	27.4	25.7	109	103	109	103	69-150	6	30						
Isopropylbenzene (Cumene)	ug/L	ND	50	50	53.8	51.6	108	103	108	103	75-125	4	30						
m&p-Xylene	ug/L	ND	100	100	102	99.3	102	99	102	99	71-133	3	30						
Methyl-tert-butyl ether	ug/L	ND	50	50	48.0	48.4	96	97	96	97	75-125	.9	30						
Methylene Chloride	ug/L	ND	50	50	45.5	45.0	91	90	91	90	75-125	1	30						
n-Butylbenzene	ug/L	ND	50	50	51.8	49.5	104	99	104	99	75-141	5	30						
n-Propylbenzene	ug/L	ND	50	50	51.2	49.2	102	98	102	98	75-132	4	30						
Naphthalene	ug/L	ND	50	50	48.7	48.2	97	96	97	96	74-138	1	30						
o-Xylene	ug/L	ND	50	50	53.4	52.1	107	104	107	104	75-128	3	30						
p-Isopropyltoluene	ug/L	ND	50	50	51.1	49.4	102	99	102	99	75-133	4	30						
sec-Butylbenzene	ug/L	ND	50	50	51.1	50.2	102	100	102	100	75-136	2	30						
Styrene	ug/L	ND	50	50	50.1	50.4	100	101	100	101	72-125	.7	30						
tert-Butylbenzene	ug/L	ND	50	50	52.3	50.2	105	100	105	100	75-132	4	30						
Tetrachloroethene	ug/L	ND	50	50	56.2	55.0	112	110	112	110	75-126	2	30						
Tetrahydrofuran	ug/L	ND	500	500	436	435	87	87	87	87	64-128	.05	30						
Toluene	ug/L	ND	50	50	51.0	50.3	102	101	102	101	75-125	1	30						
trans-1,2-Dichloroethene	ug/L	ND	50	50	49.8	47.8	100	96	100	96	75-127	4	30						
trans-1,3-Dichloropropene	ug/L	ND	50	50	53.2	52.4	106	105	106	105	75-125	1	30						
Trichloroethene	ug/L	ND	50	50	51.9	54.0	104	108	104	108	75-125	4	30						
Trichlorofluoromethane	ug/L	ND	50	50	66.2	64.1	132	128	132	128	75-150	3	30						
Vinyl chloride	ug/L	ND	50	50	49.7	48.9	99	98	99	98	74-142	2	30						
Xylene (Total)	ug/L	ND	150	150	155	151	104	101	104	101	73-132	3	30						
1,2-Dichloroethane-d4 (S)	%						110	106	110	106	75-125								
4-Bromofluorobenzene (S)	%						102	99	102	99	75-125								
Dibromofluoromethane (S)	%						97	96	97	96	75-125								
Toluene-d8 (S)	%						102	101	102	101	75-125								

QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10158024

QC Batch: MSV/17006 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 10158024005, 10158024006, 10158024007

METHOD BLANK: 982078 Matrix: Water
Associated Lab Samples: 10158024005, 10158024006, 10158024007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/24/11 19:52	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/24/11 19:52	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/24/11 19:52	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/24/11 19:52	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	05/24/11 19:52	
1,1-Dichloroethane	ug/L	ND	1.0	05/24/11 19:52	
1,1-Dichloroethene	ug/L	ND	1.0	05/24/11 19:52	
1,1-Dichloropropene	ug/L	ND	1.0	05/24/11 19:52	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/24/11 19:52	
1,2,3-Trichloropropane	ug/L	ND	4.0	05/24/11 19:52	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/24/11 19:52	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	05/24/11 19:52	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	05/24/11 19:52	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/24/11 19:52	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/24/11 19:52	
1,2-Dichloroethane	ug/L	ND	1.0	05/24/11 19:52	
1,2-Dichloropropane	ug/L	ND	4.0	05/24/11 19:52	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	05/24/11 19:52	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/24/11 19:52	
1,3-Dichloropropane	ug/L	ND	1.0	05/24/11 19:52	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/24/11 19:52	
2,2-Dichloropropane	ug/L	ND	4.0	05/24/11 19:52	
2-Butanone (MEK)	ug/L	ND	4.0	05/24/11 19:52	
2-Chlorotoluene	ug/L	ND	1.0	05/24/11 19:52	
4-Chlorotoluene	ug/L	ND	1.0	05/24/11 19:52	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	05/24/11 19:52	
Acetone	ug/L	ND	25.0	05/24/11 19:52	
Allyl chloride	ug/L	ND	4.0	05/24/11 19:52	
Benzene	ug/L	ND	1.0	05/24/11 19:52	
Bromobenzene	ug/L	ND	1.0	05/24/11 19:52	
Bromochloromethane	ug/L	ND	1.0	05/24/11 19:52	
Bromodichloromethane	ug/L	ND	1.0	05/24/11 19:52	
Bromoform	ug/L	ND	4.0	05/24/11 19:52	
Bromomethane	ug/L	ND	4.0	05/24/11 19:52	
Carbon tetrachloride	ug/L	ND	1.0	05/24/11 19:52	
Chlorobenzene	ug/L	ND	1.0	05/24/11 19:52	
Chloroethane	ug/L	ND	1.0	05/24/11 19:52	
Chloroform	ug/L	ND	1.0	05/24/11 19:52	
Chloromethane	ug/L	ND	4.0	05/24/11 19:52	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/24/11 19:52	
cis-1,3-Dichloropropene	ug/L	ND	4.0	05/24/11 19:52	
Dibromochloromethane	ug/L	ND	1.0	05/24/11 19:52	
Dibromomethane	ug/L	ND	4.0	05/24/11 19:52	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10158024

METHOD BLANK: 982078 Matrix: Water

Associated Lab Samples: 10158024005, 10158024006, 10158024007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	05/24/11 19:52	
Dichlorofluoromethane	ug/L	ND	1.0	05/24/11 19:52	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	05/24/11 19:52	
Ethylbenzene	ug/L	ND	1.0	05/24/11 19:52	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	05/24/11 19:52	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	05/24/11 19:52	
m&p-Xylene	ug/L	ND	2.0	05/24/11 19:52	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/24/11 19:52	
Methylene Chloride	ug/L	ND	4.0	05/24/11 19:52	
n-Butylbenzene	ug/L	ND	1.0	05/24/11 19:52	
n-Propylbenzene	ug/L	ND	1.0	05/24/11 19:52	
Naphthalene	ug/L	ND	4.0	05/24/11 19:52	
o-Xylene	ug/L	ND	1.0	05/24/11 19:52	
p-Isopropyltoluene	ug/L	ND	1.0	05/24/11 19:52	
sec-Butylbenzene	ug/L	ND	1.0	05/24/11 19:52	
Styrene	ug/L	ND	1.0	05/24/11 19:52	
tert-Butylbenzene	ug/L	ND	1.0	05/24/11 19:52	
Tetrachloroethene	ug/L	ND	1.0	05/24/11 19:52	
Tetrahydrofuran	ug/L	ND	10.0	05/24/11 19:52	
Toluene	ug/L	ND	1.0	05/24/11 19:52	
trans-1,2-Dichloroethene	ug/L	ND	4.0	05/24/11 19:52	
trans-1,3-Dichloropropene	ug/L	ND	4.0	05/24/11 19:52	
Trichloroethene	ug/L	ND	1.0	05/24/11 19:52	
Trichlorofluoromethane	ug/L	ND	1.0	05/24/11 19:52	
Vinyl chloride	ug/L	ND	0.40	05/24/11 19:52	
Xylene (Total)	ug/L	ND	3.0	05/24/11 19:52	
1,2-Dichloroethane-d4 (S)	%	102	75-125	05/24/11 19:52	
4-Bromofluorobenzene (S)	%	101	75-125	05/24/11 19:52	
Dibromofluoromethane (S)	%	102	75-125	05/24/11 19:52	
Toluene-d8 (S)	%	99	75-125	05/24/11 19:52	

LABORATORY CONTROL SAMPLE: 982079

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	57.2	114	75-125	
1,1,1-Trichloroethane	ug/L	50	58.0	116	75-125	
1,1,2,2-Tetrachloroethane	ug/L	50	53.3	107	75-125	
1,1,2-Trichloroethane	ug/L	50	54.1	108	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	63.2	126	75-126	
1,1-Dichloroethane	ug/L	50	55.2	110	75-125	
1,1-Dichloroethene	ug/L	50	56.4	113	75-125	
1,1-Dichloropropene	ug/L	50	57.5	115	75-125	
1,2,3-Trichlorobenzene	ug/L	50	57.5	115	68-128	
1,2,3-Trichloropropane	ug/L	50	54.1	108	75-125	
1,2,4-Trichlorobenzene	ug/L	50	56.7	113	75-125	

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10158024

LABORATORY CONTROL SAMPLE: 982079

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	50	58.6	117	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	55.9	112	68-125	
1,2-Dibromoethane (EDB)	ug/L	50	55.1	110	75-125	
1,2-Dichlorobenzene	ug/L	50	56.7	113	75-125	
1,2-Dichloroethane	ug/L	50	55.6	111	71-125	
1,2-Dichloropropane	ug/L	50	55.6	111	75-125	
1,3,5-Trimethylbenzene	ug/L	50	57.7	115	75-125	
1,3-Dichlorobenzene	ug/L	50	56.0	112	75-125	
1,3-Dichloropropane	ug/L	50	54.7	109	75-125	
1,4-Dichlorobenzene	ug/L	50	57.1	114	75-125	
2,2-Dichloropropane	ug/L	50	57.1	114	69-132	
2-Butanone (MEK)	ug/L	50	54.6	109	56-137	
2-Chlorotoluene	ug/L	50	57.0	114	75-125	
4-Chlorotoluene	ug/L	50	57.9	116	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	50	53.4	107	67-125	
Acetone	ug/L	125	129	103	41-130	
Allyl chloride	ug/L	50	58.0	116	59-130	
Benzene	ug/L	50	55.5	111	75-125	
Bromobenzene	ug/L	50	56.0	112	75-125	
Bromochloromethane	ug/L	50	55.8	112	75-125	
Bromodichloromethane	ug/L	50	55.4	111	75-125	
Bromoform	ug/L	50	56.1	112	75-125	
Bromomethane	ug/L	50	57.7	115	45-138	
Carbon tetrachloride	ug/L	50	58.5	117	75-125	
Chlorobenzene	ug/L	50	56.9	114	75-125	
Chloroethane	ug/L	50	55.7	111	72-125	
Chloroform	ug/L	50	57.4	115	75-125	
Chloromethane	ug/L	50	56.6	113	65-125	
cis-1,2-Dichloroethene	ug/L	50	56.8	114	75-125	
cis-1,3-Dichloropropene	ug/L	50	55.1	110	75-125	
Dibromochloromethane	ug/L	50	54.9	110	75-125	
Dibromomethane	ug/L	50	54.5	109	75-125	
Dichlorodifluoromethane	ug/L	50	56.1	112	55-143	
Dichlorofluoromethane	ug/L	50	54.0	108	75-125	
Diethyl ether (Ethyl ether)	ug/L	50	53.5	107	75-125	
Ethylbenzene	ug/L	50	57.0	114	75-125	
Hexachloro-1,3-butadiene	ug/L	25	29.4	117	69-132	
Isopropylbenzene (Cumene)	ug/L	50	58.2	116	75-125	
m&p-Xylene	ug/L	100	114	114	75-125	
Methyl-tert-butyl ether	ug/L	50	55.7	111	75-125	
Methylene Chloride	ug/L	50	41.2	82	75-125	
n-Butylbenzene	ug/L	50	60.6	121	75-125	
n-Propylbenzene	ug/L	50	55.8	112	75-125	
Naphthalene	ug/L	50	55.7	111	74-129	
o-Xylene	ug/L	50	56.8	114	75-125	
p-Isopropyltoluene	ug/L	50	59.5	119	75-125	
sec-Butylbenzene	ug/L	50	59.1	118	75-125	
Styrene	ug/L	50	57.8	116	75-125	

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10158024

LABORATORY CONTROL SAMPLE: 982079

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	58.1	116	75-125	
Tetrachloroethene	ug/L	50	56.2	112	75-125	
Tetrahydrofuran	ug/L	500	543	109	64-128	
Toluene	ug/L	50	56.1	112	75-125	
trans-1,2-Dichloroethene	ug/L	50	58.0	116	75-125	
trans-1,3-Dichloropropene	ug/L	50	57.0	114	75-125	
Trichloroethene	ug/L	50	57.4	115	75-125	
Trichlorofluoromethane	ug/L	50	59.1	118	75-125	
Vinyl chloride	ug/L	50	54.0	108	74-125	
Xylene (Total)	ug/L	150	171	114	75-125	
1,2-Dichloroethane-d4 (S)	%			105	75-125	
4-Bromofluorobenzene (S)	%			100	75-125	
Dibromofluoromethane (S)	%			101	75-125	
Toluene-d8 (S)	%			101	75-125	

MATRIX SPIKE SAMPLE: 983600

Parameter	Units	10158075001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	50	54.5	109	75-125	
1,1,1-Trichloroethane	ug/L	ND	50	60.2	120	75-128	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	51.0	102	75-125	
1,1,2-Trichloroethane	ug/L	ND	50	50.7	101	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	77.3	155	75-150	M1
1,1-Dichloroethane	ug/L	ND	50	55.2	110	75-125	
1,1-Dichloroethene	ug/L	ND	50	60.7	121	75-134	
1,1-Dichloropropene	ug/L	ND	50	62.3	125	75-131	
1,2,3-Trichlorobenzene	ug/L	ND	50	54.3	109	67-145	
1,2,3-Trichloropropane	ug/L	ND	50	51.6	103	75-125	
1,2,4-Trichlorobenzene	ug/L	ND	50	55.5	111	74-138	
1,2,4-Trimethylbenzene	ug/L	ND	50	58.0	116	75-126	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	52.0	104	68-129	
1,2-Dibromoethane (EDB)	ug/L	ND	50	52.6	105	75-125	
1,2-Dichlorobenzene	ug/L	ND	50	55.4	111	75-125	
1,2-Dichloroethane	ug/L	ND	50	54.3	109	69-129	
1,2-Dichloropropane	ug/L	ND	50	54.0	108	75-125	
1,3,5-Trimethylbenzene	ug/L	ND	50	57.2	114	75-125	
1,3-Dichlorobenzene	ug/L	ND	50	55.2	110	75-125	
1,3-Dichloropropane	ug/L	ND	50	51.2	102	75-125	
1,4-Dichlorobenzene	ug/L	ND	50	56.0	112	75-125	
2,2-Dichloropropane	ug/L	ND	50	59.1	118	69-141	
2-Butanone (MEK)	ug/L	ND	50	50.5	101	42-137	
2-Chlorotoluene	ug/L	ND	50	57.3	115	68-147	
4-Chlorotoluene	ug/L	ND	50	57.0	114	75-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	49.1	98	57-126	
Acetone	ug/L	ND	125	132	105	34-130	
Allyl chloride	ug/L	ND	50	56.6	113	53-140	
Benzene	ug/L	ND	50	56.0	112	73-136	

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10158024

MATRIX SPIKE SAMPLE: 983600		10158075001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Bromobenzene	ug/L	ND	50	54.9	110	75-125	
Bromochloromethane	ug/L	ND	50	54.3	109	75-125	
Bromodichloromethane	ug/L	ND	50	54.5	109	75-125	
Bromoform	ug/L	ND	50	51.4	103	75-125	
Bromomethane	ug/L	ND	50	63.6	127	41-150	
Carbon tetrachloride	ug/L	ND	50	63.7	127	75-135	
Chlorobenzene	ug/L	ND	50	55.1	110	75-125	
Chloroethane	ug/L	ND	50	57.8	116	71-139	
Chloroform	ug/L	ND	50	57.1	114	75-125	
Chloromethane	ug/L	ND	50	59.0	118	65-144	
cis-1,2-Dichloroethene	ug/L	ND	50	57.4	115	75-125	
cis-1,3-Dichloropropene	ug/L	ND	50	53.9	108	75-125	
Dibromochloromethane	ug/L	ND	50	52.0	104	75-125	
Dibromomethane	ug/L	ND	50	52.3	105	75-125	
Dichlorodifluoromethane	ug/L	ND	50	70.1	140	55-150	
Dichlorofluoromethane	ug/L	ND	50	56.7	113	75-129	
Diethyl ether (Ethyl ether)	ug/L	ND	50	52.2	104	75-125	
Ethylbenzene	ug/L	ND	50	56.3	113	75-137	
Hexachloro-1,3-butadiene	ug/L	ND	25	30.1	120	69-150	
Isopropylbenzene (Cumene)	ug/L	ND	50	58.1	116	75-125	
m&p-Xylene	ug/L	ND	100	113	113	71-133	
Methyl-tert-butyl ether	ug/L	ND	50	54.3	109	75-125	
Methylene Chloride	ug/L	ND	50	43.9	88	75-125	
n-Butylbenzene	ug/L	ND	50	60.8	122	75-141	
n-Propylbenzene	ug/L	ND	50	55.8	112	75-132	
Naphthalene	ug/L	ND	50	53.8	108	74-138	
o-Xylene	ug/L	ND	50	56.0	112	75-128	
p-Isopropyltoluene	ug/L	ND	50	59.7	119	75-133	
sec-Butylbenzene	ug/L	ND	50	60.0	120	75-136	
Styrene	ug/L	ND	50	56.1	112	72-125	
tert-Butylbenzene	ug/L	ND	50	58.1	116	75-132	
Tetrachloroethene	ug/L	ND	50	58.8	118	75-126	
Tetrahydrofuran	ug/L	ND	500	509	101	64-128	
Toluene	ug/L	ND	50	55.9	112	75-125	
trans-1,2-Dichloroethene	ug/L	ND	50	58.6	117	75-127	
trans-1,3-Dichloropropene	ug/L	ND	50	54.7	109	75-125	
Trichloroethene	ug/L	ND	50	59.3	119	75-125	
Trichlorofluoromethane	ug/L	ND	50	69.3	139	75-150	
Vinyl chloride	ug/L	ND	50	59.3	119	74-142	
Xylene (Total)	ug/L	ND	150	169	113	73-132	
1,2-Dichloroethane-d4 (S)	%				101	75-125	
4-Bromofluorobenzene (S)	%				100	75-125	
Dibromofluoromethane (S)	%				102	75-125	
Toluene-d8 (S)	%				99	75-125	

QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10158024

SAMPLE DUPLICATE: 983601

Parameter	Units	10158075002 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.: 10158024

SAMPLE DUPLICATE: 983601

Parameter	Units	10158075002 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)	%	101	102	1		
4-Bromofluorobenzene (S)	%	100	98	2		
Dibromofluoromethane (S)	%	100	103	3		
Toluene-d8 (S)	%	97	99	2		

QUALIFIERS

Project: CRC City of Rochester

Pace Project No.: 10158024

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.

SG - Silica Gel - Clean-Up

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC City of Rochester

Pace Project No.: 10158024

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10158024001	MW-14	EPA 8260	MSV/17005		
10158024002	MW-15	EPA 8260	MSV/17005		
10158024003	MW-16	EPA 8260	MSV/17005		
10158024004	MW-17	EPA 8260	MSV/17005		
10158024005	MW-18	EPA 8260	MSV/17006		
10158024006	MW-19	EPA 8260	MSV/17006		
10158024007	MW-20	EPA 8260	MSV/17006		

Sample Condition Upon Receipt



Client Name: Landmark

Project # 10158024

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: _____

Options
Proj. ID#
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 of 179425 Type of Ice: Wet Blue None

Samples on ice, cooling process has begun

Cooler Temperature 58

Biological Tissue is Frozen: Yes No

Date and initials of person examining contents: 5-20-11

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>wt</u>	
All containers needing acid/base preservation have been checked. Noncompliance are noted in 13.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Samp #
Exceptions: <u>VOA</u> , Coliform, TOC, Oil and Grease, WI-DRO (water)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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: [Signature] Date: 5/23/11

June 03, 2011

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

RE: Project: CRC City of Rochester
Pace Project No.: 10158020

Dear Mr. Skramstad:

Enclosed are the analytical results for sample(s) received by the laboratory on May 20, 2011. 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@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CRC City of Rochester

Pace Project No.: 10158020

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

EPA Region 8 Certification #: Pace

Florida/NELAP Certification #: E87605

Georgia Certification #: 959

Idaho Certification #: MN00064

Illinois Certification #: 200011

Iowa Certification #: 368

Kansas Certification #: E-10167

Louisiana Certification #: 03086

Louisiana Certification #: LA080009

Maine Certification #: 2007029

Maryland Certification #: 322

Michigan DEQ Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT CERT0092

Nevada Certification #: MN_00064

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New Mexico Certification #: Pace

New York Certification #: 11647

North Carolina Certification #: 530

North Dakota Certification #: R-036

North Dakota Certification #: R-036A

Ohio VAP Certification #: CL101

Oklahoma Certification #: D9921

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Tennessee Certification #: 02818

Texas Certification #: T104704192

Washington Certification #: C754

Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: CRC City of Rochester

Pace Project No.: 10158020

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10158020001	DPE-1	Water	05/19/11 12:00	05/20/11 10:56
10158020002	DPE-2	Water	05/19/11 12:20	05/20/11 10:56
10158020003	DPE-3	Water	05/19/11 12:40	05/20/11 10:56
10158020004	DPE-4	Water	05/19/11 13:00	05/20/11 10:56
10158020005	DPE-5	Water	05/19/11 13:20	05/20/11 10:56
10158020006	DPE-6	Water	05/19/11 13:40	05/20/11 10:56
10158020007	DPE-7	Water	05/19/11 14:00	05/20/11 10:56
10158020008	DPE-8	Water	05/19/11 14:20	05/20/11 10:56
10158020009	Trip Blank	Water		05/20/11 10:56

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SAMPLE ANALYTE COUNT

Project: CRC City of Rochester

Pace Project No.: 10158020

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10158020001	DPE-1	EPA 8260	DJT, KT1	73
10158020002	DPE-2	EPA 8260	ECB	73
10158020003	DPE-3	EPA 8260	ECB	73
10158020004	DPE-4	EPA 8260	ECB	73
10158020005	DPE-5	EPA 8260	ECB	73
10158020006	DPE-6	EPA 8260	DJT	73
10158020007	DPE-7	EPA 8260	DJT	73
10158020008	DPE-8	EPA 8260	DJT	73
10158020009	Trip Blank	EPA 8260	DJT	73

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10158020

Sample: DPE-1	Lab ID: 10158020001	Collected: 05/19/11 12:00	Received: 05/20/11 10:56	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
Acetone	ND	ug/L	25.0	1		05/25/11 00:44	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		05/25/11 00:44	107-05-1	
Benzene	ND	ug/L	1.0	1		05/25/11 00:44	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/25/11 00:44	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/25/11 00:44	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/25/11 00:44	75-27-4	
Bromoform	ND	ug/L	4.0	1		05/25/11 00:44	75-25-2	
Bromomethane	ND	ug/L	4.0	1		05/25/11 00:44	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		05/25/11 00:44	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/25/11 00:44	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/25/11 00:44	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/25/11 00:44	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		05/25/11 00:44	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/25/11 00:44	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/25/11 00:44	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/25/11 00:44	67-66-3	
Chloromethane	ND	ug/L	4.0	1		05/25/11 00:44	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/25/11 00:44	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/25/11 00:44	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		05/25/11 00:44	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/25/11 00:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/25/11 00:44	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		05/25/11 00:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/25/11 00:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/25/11 00:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/25/11 00:44	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/25/11 00:44	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/25/11 00:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/25/11 00:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/25/11 00:44	75-35-4	
cis-1,2-Dichloroethene	1.3	ug/L	1.0	1		05/25/11 00:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	4.0	1		05/25/11 00:44	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		05/25/11 00:44	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		05/25/11 00:44	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/25/11 00:44	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		05/25/11 00:44	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/25/11 00:44	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		05/25/11 00:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		05/25/11 00:44	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		05/25/11 00:44	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		05/25/11 00:44	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/25/11 00:44	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/25/11 00:44	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/25/11 00:44	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		05/25/11 00:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		05/25/11 00:44	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/25/11 00:44	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Sample Project No.: 10158020

Sample: DPE-1		Lab ID: 10158020001	Collected: 05/19/11 12:00	Received: 05/20/11 10:56	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		05/25/11 00:44	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/25/11 00:44	103-65-1	
Styrene	ND	ug/L	1.0	1		05/25/11 00:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/25/11 00:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/25/11 00:44	79-34-5	
Tetrachloroethene	185	ug/L	2.0	2		05/26/11 19:38	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/25/11 00:44	109-99-9	
Toluene	ND	ug/L	1.0	1		05/25/11 00:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/25/11 00:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/25/11 00:44	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/25/11 00:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/25/11 00:44	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/25/11 00:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/25/11 00:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		05/25/11 00:44	96-18-4	
1,1,2-Trichlorotrifluoroethane	13.3	ug/L	1.0	1		05/25/11 00:44	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/25/11 00:44	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/25/11 00:44	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		05/25/11 00:44	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/25/11 00:44	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/25/11 00:44	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/25/11 00:44	95-47-6	
Dibromofluoromethane (S)	98	%	75-125	1		05/25/11 00:44	1868-53-7	
1,2-Dichloroethane-d4 (S)	112	%	75-125	1		05/25/11 00:44	17060-07-0	
Toluene-d8 (S)	101	%	75-125	1		05/25/11 00:44	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125	1		05/25/11 00:44	460-00-4	

Sample: DPE-2		Lab ID: 10158020002	Collected: 05/19/11 12:20	Received: 05/20/11 10:56	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
Acetone	ND	ug/L	25.0	1		05/26/11 14:48	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		05/26/11 14:48	107-05-1	
Benzene	ND	ug/L	1.0	1		05/26/11 14:48	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/26/11 14:48	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/26/11 14:48	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/26/11 14:48	75-27-4	
Bromoform	ND	ug/L	4.0	1		05/26/11 14:48	75-25-2	
Bromomethane	ND	ug/L	4.0	1		05/26/11 14:48	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		05/26/11 14:48	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/26/11 14:48	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/26/11 14:48	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/26/11 14:48	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		05/26/11 14:48	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/26/11 14:48	108-90-7	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10158020

Sample: DPE-2	Lab ID: 10158020002	Collected: 05/19/11 12:20	Received: 05/20/11 10:56	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		05/26/11 14:48	75-00-3	
Chloroform	3.1	ug/L	1.0	1		05/26/11 14:48	67-66-3	
Chloromethane	ND	ug/L	4.0	1		05/26/11 14:48	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/26/11 14:48	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/26/11 14:48	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		05/26/11 14:48	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/26/11 14:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/26/11 14:48	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		05/26/11 14:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/26/11 14:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/26/11 14:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/26/11 14:48	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/26/11 14:48	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/26/11 14:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/26/11 14:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/26/11 14:48	75-35-4	
cis-1,2-Dichloroethene	5.5	ug/L	1.0	1		05/26/11 14:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	4.0	1		05/26/11 14:48	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		05/26/11 14:48	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		05/26/11 14:48	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/26/11 14:48	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		05/26/11 14:48	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/26/11 14:48	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		05/26/11 14:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		05/26/11 14:48	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		05/26/11 14:48	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		05/26/11 14:48	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/26/11 14:48	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/26/11 14:48	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/26/11 14:48	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		05/26/11 14:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		05/26/11 14:48	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/26/11 14:48	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		05/26/11 14:48	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/26/11 14:48	103-65-1	
Styrene	ND	ug/L	1.0	1		05/26/11 14:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/26/11 14:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/26/11 14:48	79-34-5	
Tetrachloroethene	1680	ug/L	10.0	10		05/26/11 13:59	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/26/11 14:48	109-99-9	
Toluene	ND	ug/L	1.0	1		05/26/11 14:48	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/26/11 14:48	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/26/11 14:48	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/26/11 14:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/26/11 14:48	79-00-5	
Trichloroethene	2.2	ug/L	1.0	1		05/26/11 14:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/26/11 14:48	75-69-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10158020

Sample: DPE-2		Lab ID: 10158020002	Collected: 05/19/11 12:20	Received: 05/20/11 10:56	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	4.0	1		05/26/11 14:48	96-18-4	
1,1,2-Trichlorotrifluoroethane	199	ug/L	1.0	1		05/26/11 14:48	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/26/11 14:48	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/26/11 14:48	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		05/26/11 14:48	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/26/11 14:48	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/26/11 14:48	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/26/11 14:48	95-47-6	
Dibromofluoromethane (S)	107	%	75-125	1		05/26/11 14:48	1868-53-7	
1,2-Dichloroethane-d4 (S)	112	%	75-125	1		05/26/11 14:48	17060-07-0	
Toluene-d8 (S)	104	%	75-125	1		05/26/11 14:48	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125	1		05/26/11 14:48	460-00-4	

Sample: DPE-3		Lab ID: 10158020003	Collected: 05/19/11 12:40	Received: 05/20/11 10:56	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
Acetone	ND	ug/L	500	20		05/26/11 14:16	67-64-1	
Allyl chloride	ND	ug/L	80.0	20		05/26/11 14:16	107-05-1	
Benzene	ND	ug/L	20.0	20		05/26/11 14:16	71-43-2	
Bromobenzene	ND	ug/L	20.0	20		05/26/11 14:16	108-86-1	
Bromochloromethane	ND	ug/L	20.0	20		05/26/11 14:16	74-97-5	
Bromodichloromethane	ND	ug/L	20.0	20		05/26/11 14:16	75-27-4	
Bromoform	ND	ug/L	80.0	20		05/26/11 14:16	75-25-2	
Bromomethane	ND	ug/L	80.0	20		05/26/11 14:16	74-83-9	
2-Butanone (MEK)	ND	ug/L	80.0	20		05/26/11 14:16	78-93-3	
n-Butylbenzene	ND	ug/L	20.0	20		05/26/11 14:16	104-51-8	
sec-Butylbenzene	ND	ug/L	20.0	20		05/26/11 14:16	135-98-8	
tert-Butylbenzene	ND	ug/L	20.0	20		05/26/11 14:16	98-06-6	
Carbon tetrachloride	ND	ug/L	20.0	20		05/26/11 14:16	56-23-5	
Chlorobenzene	ND	ug/L	20.0	20		05/26/11 14:16	108-90-7	
Chloroethane	ND	ug/L	20.0	20		05/26/11 14:16	75-00-3	
Chloroform	ND	ug/L	20.0	20		05/26/11 14:16	67-66-3	
Chloromethane	ND	ug/L	80.0	20		05/26/11 14:16	74-87-3	
2-Chlorotoluene	ND	ug/L	20.0	20		05/26/11 14:16	95-49-8	
4-Chlorotoluene	ND	ug/L	20.0	20		05/26/11 14:16	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	80.0	20		05/26/11 14:16	96-12-8	
Dibromochloromethane	ND	ug/L	20.0	20		05/26/11 14:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	20.0	20		05/26/11 14:16	106-93-4	
Dibromomethane	ND	ug/L	80.0	20		05/26/11 14:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	20.0	20		05/26/11 14:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	20.0	20		05/26/11 14:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	20.0	20		05/26/11 14:16	106-46-7	
Dichlorodifluoromethane	ND	ug/L	20.0	20		05/26/11 14:16	75-71-8	
1,1-Dichloroethane	ND	ug/L	20.0	20		05/26/11 14:16	75-34-3	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10158020

Sample: DPE-3	Lab ID: 10158020003	Collected: 05/19/11 12:40	Received: 05/20/11 10:56	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		20.0	20		05/26/11 14:16	107-06-2	
1,1-Dichloroethene	ND ug/L		20.0	20		05/26/11 14:16	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		20.0	20		05/26/11 14:16	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		80.0	20		05/26/11 14:16	156-60-5	
Dichlorofluoromethane	ND ug/L		20.0	20		05/26/11 14:16	75-43-4	
1,2-Dichloropropane	ND ug/L		80.0	20		05/26/11 14:16	78-87-5	
1,3-Dichloropropane	ND ug/L		20.0	20		05/26/11 14:16	142-28-9	
2,2-Dichloropropane	ND ug/L		80.0	20		05/26/11 14:16	594-20-7	
1,1-Dichloropropene	ND ug/L		20.0	20		05/26/11 14:16	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		80.0	20		05/26/11 14:16	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		80.0	20		05/26/11 14:16	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		80.0	20		05/26/11 14:16	60-29-7	
Ethylbenzene	ND ug/L		20.0	20		05/26/11 14:16	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		100	20		05/26/11 14:16	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		20.0	20		05/26/11 14:16	98-82-8	
p-Isopropyltoluene	ND ug/L		20.0	20		05/26/11 14:16	99-87-6	
Methylene Chloride	ND ug/L		80.0	20		05/26/11 14:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		80.0	20		05/26/11 14:16	108-10-1	
Methyl-tert-butyl ether	ND ug/L		20.0	20		05/26/11 14:16	1634-04-4	
Naphthalene	ND ug/L		80.0	20		05/26/11 14:16	91-20-3	
n-Propylbenzene	ND ug/L		20.0	20		05/26/11 14:16	103-65-1	
Styrene	ND ug/L		20.0	20		05/26/11 14:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		20.0	20		05/26/11 14:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		20.0	20		05/26/11 14:16	79-34-5	
Tetrachloroethene	3220 ug/L		20.0	20		05/26/11 14:16	127-18-4	M1
Tetrahydrofuran	ND ug/L		200	20		05/26/11 14:16	109-99-9	
Toluene	ND ug/L		20.0	20		05/26/11 14:16	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		20.0	20		05/26/11 14:16	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		20.0	20		05/26/11 14:16	120-82-1	
1,1,1-Trichloroethane	ND ug/L		20.0	20		05/26/11 14:16	71-55-6	
1,1,2-Trichloroethane	ND ug/L		20.0	20		05/26/11 14:16	79-00-5	
Trichloroethene	ND ug/L		20.0	20		05/26/11 14:16	79-01-6	
Trichlorofluoromethane	ND ug/L		20.0	20		05/26/11 14:16	75-69-4	
1,2,3-Trichloropropane	ND ug/L		80.0	20		05/26/11 14:16	96-18-4	
1,1,2-Trichlorotrifluoroethane	343 ug/L		20.0	20		05/26/11 14:16	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		20.0	20		05/26/11 14:16	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		20.0	20		05/26/11 14:16	108-67-8	
Vinyl chloride	ND ug/L		8.0	20		05/26/11 14:16	75-01-4	
Xylene (Total)	ND ug/L		60.0	20		05/26/11 14:16	1330-20-7	
m&p-Xylene	ND ug/L		40.0	20		05/26/11 14:16	179601-23-1	
o-Xylene	ND ug/L		20.0	20		05/26/11 14:16	95-47-6	
Dibromofluoromethane (S)	107 %		75-125	20		05/26/11 14:16	1868-53-7	
1,2-Dichloroethane-d4 (S)	112 %		75-125	20		05/26/11 14:16	17060-07-0	
Toluene-d8 (S)	103 %		75-125	20		05/26/11 14:16	2037-26-5	
4-Bromofluorobenzene (S)	101 %		75-125	20		05/26/11 14:16	460-00-4	

ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10158020

Sample: DPE-4	Lab ID: 10158020004	Collected: 05/19/11 13:00	Received: 05/20/11 10:56	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	2		05/26/11 13:41	67-64-1	
Allyl chloride	ND ug/L		8.0	2		05/26/11 13:41	107-05-1	
Benzene	ND ug/L		2.0	2		05/26/11 13:41	71-43-2	
Bromobenzene	ND ug/L		2.0	2		05/26/11 13:41	108-86-1	
Bromochloromethane	ND ug/L		2.0	2		05/26/11 13:41	74-97-5	
Bromodichloromethane	ND ug/L		2.0	2		05/26/11 13:41	75-27-4	
Bromoform	ND ug/L		8.0	2		05/26/11 13:41	75-25-2	
Bromomethane	ND ug/L		8.0	2		05/26/11 13:41	74-83-9	
2-Butanone (MEK)	ND ug/L		8.0	2		05/26/11 13:41	78-93-3	
n-Butylbenzene	ND ug/L		2.0	2		05/26/11 13:41	104-51-8	
sec-Butylbenzene	ND ug/L		2.0	2		05/26/11 13:41	135-98-8	
tert-Butylbenzene	ND ug/L		2.0	2		05/26/11 13:41	98-06-6	
Carbon tetrachloride	ND ug/L		2.0	2		05/26/11 13:41	56-23-5	
Chlorobenzene	ND ug/L		2.0	2		05/26/11 13:41	108-90-7	
Chloroethane	ND ug/L		2.0	2		05/26/11 13:41	75-00-3	
Chloroform	ND ug/L		2.0	2		05/26/11 13:41	67-66-3	
Chloromethane	ND ug/L		8.0	2		05/26/11 13:41	74-87-3	
2-Chlorotoluene	ND ug/L		2.0	2		05/26/11 13:41	95-49-8	
4-Chlorotoluene	ND ug/L		2.0	2		05/26/11 13:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		8.0	2		05/26/11 13:41	96-12-8	
Dibromochloromethane	ND ug/L		2.0	2		05/26/11 13:41	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		2.0	2		05/26/11 13:41	106-93-4	
Dibromomethane	ND ug/L		8.0	2		05/26/11 13:41	74-95-3	
1,2-Dichlorobenzene	ND ug/L		2.0	2		05/26/11 13:41	95-50-1	
1,3-Dichlorobenzene	ND ug/L		2.0	2		05/26/11 13:41	541-73-1	
1,4-Dichlorobenzene	ND ug/L		2.0	2		05/26/11 13:41	106-46-7	
Dichlorodifluoromethane	ND ug/L		2.0	2		05/26/11 13:41	75-71-8	
1,1-Dichloroethane	ND ug/L		2.0	2		05/26/11 13:41	75-34-3	
1,2-Dichloroethane	ND ug/L		2.0	2		05/26/11 13:41	107-06-2	
1,1-Dichloroethene	ND ug/L		2.0	2		05/26/11 13:41	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		2.0	2		05/26/11 13:41	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		8.0	2		05/26/11 13:41	156-60-5	
Dichlorofluoromethane	ND ug/L		2.0	2		05/26/11 13:41	75-43-4	
1,2-Dichloropropane	ND ug/L		8.0	2		05/26/11 13:41	78-87-5	
1,3-Dichloropropane	ND ug/L		2.0	2		05/26/11 13:41	142-28-9	
2,2-Dichloropropane	ND ug/L		8.0	2		05/26/11 13:41	594-20-7	
1,1-Dichloropropene	ND ug/L		2.0	2		05/26/11 13:41	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		8.0	2		05/26/11 13:41	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		8.0	2		05/26/11 13:41	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		8.0	2		05/26/11 13:41	60-29-7	
Ethylbenzene	ND ug/L		2.0	2		05/26/11 13:41	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		10.0	2		05/26/11 13:41	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		2.0	2		05/26/11 13:41	98-82-8	
p-Isopropyltoluene	ND ug/L		2.0	2		05/26/11 13:41	99-87-6	
Methylene Chloride	ND ug/L		8.0	2		05/26/11 13:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		8.0	2		05/26/11 13:41	108-10-1	
Methyl-tert-butyl ether	ND ug/L		2.0	2		05/26/11 13:41	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10158020

Sample: DPE-4		Lab ID: 10158020004	Collected: 05/19/11 13:00	Received: 05/20/11 10:56	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		05/26/11 13:41	91-20-3		
n-Propylbenzene	ND	ug/L	2.0	2		05/26/11 13:41	103-65-1		
Styrene	ND	ug/L	2.0	2		05/26/11 13:41	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	2.0	2		05/26/11 13:41	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	2.0	2		05/26/11 13:41	79-34-5		
Tetrachloroethene	367	ug/L	2.0	2		05/26/11 13:41	127-18-4		
Tetrahydrofuran	ND	ug/L	20.0	2		05/26/11 13:41	109-99-9		
Toluene	ND	ug/L	2.0	2		05/26/11 13:41	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	2.0	2		05/26/11 13:41	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	2.0	2		05/26/11 13:41	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	2.0	2		05/26/11 13:41	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	2.0	2		05/26/11 13:41	79-00-5		
Trichloroethene	ND	ug/L	2.0	2		05/26/11 13:41	79-01-6		
Trichlorofluoromethane	ND	ug/L	2.0	2		05/26/11 13:41	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	8.0	2		05/26/11 13:41	96-18-4		
1,1,2-Trichlorotrifluoroethane	60.2	ug/L	2.0	2		05/26/11 13:41	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	2.0	2		05/26/11 13:41	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	2.0	2		05/26/11 13:41	108-67-8		
Vinyl chloride	ND	ug/L	0.80	2		05/26/11 13:41	75-01-4		
Xylene (Total)	ND	ug/L	6.0	2		05/26/11 13:41	1330-20-7		
m&p-Xylene	ND	ug/L	4.0	2		05/26/11 13:41	179601-23-1		
o-Xylene	ND	ug/L	2.0	2		05/26/11 13:41	95-47-6		
Dibromofluoromethane (S)	105	%	75-125	2		05/26/11 13:41	1868-53-7		
1,2-Dichloroethane-d4 (S)	110	%	75-125	2		05/26/11 13:41	17060-07-0		
Toluene-d8 (S)	103	%	75-125	2		05/26/11 13:41	2037-26-5		
4-Bromofluorobenzene (S)	99	%	75-125	2		05/26/11 13:41	460-00-4		

Sample: DPE-5		Lab ID: 10158020005	Collected: 05/19/11 13:20	Received: 05/20/11 10:56	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 VOC		Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/26/11 14:32	67-64-1		
Allyl chloride	ND	ug/L	4.0	1		05/26/11 14:32	107-05-1		
Benzene	ND	ug/L	1.0	1		05/26/11 14:32	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		05/26/11 14:32	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		05/26/11 14:32	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		05/26/11 14:32	75-27-4		
Bromoform	ND	ug/L	4.0	1		05/26/11 14:32	75-25-2		
Bromomethane	ND	ug/L	4.0	1		05/26/11 14:32	74-83-9		
2-Butanone (MEK)	ND	ug/L	4.0	1		05/26/11 14:32	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		05/26/11 14:32	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		05/26/11 14:32	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		05/26/11 14:32	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		05/26/11 14:32	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		05/26/11 14:32	108-90-7		

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10158020

Sample: DPE-5		Lab ID: 10158020005	Collected: 05/19/11 13:20	Received: 05/20/11 10:56	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		05/26/11 14:32	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/26/11 14:32	67-66-3	
Chloromethane	ND	ug/L	4.0	1		05/26/11 14:32	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/26/11 14:32	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/26/11 14:32	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		05/26/11 14:32	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/26/11 14:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/26/11 14:32	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		05/26/11 14:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/26/11 14:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/26/11 14:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/26/11 14:32	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/26/11 14:32	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/26/11 14:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/26/11 14:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/26/11 14:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/26/11 14:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	4.0	1		05/26/11 14:32	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		05/26/11 14:32	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		05/26/11 14:32	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/26/11 14:32	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		05/26/11 14:32	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/26/11 14:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		05/26/11 14:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		05/26/11 14:32	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		05/26/11 14:32	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		05/26/11 14:32	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/26/11 14:32	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/26/11 14:32	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/26/11 14:32	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		05/26/11 14:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		05/26/11 14:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/26/11 14:32	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		05/26/11 14:32	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/26/11 14:32	103-65-1	
Styrene	ND	ug/L	1.0	1		05/26/11 14:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/26/11 14:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/26/11 14:32	79-34-5	
Tetrachloroethene	67.2	ug/L	1.0	1		05/26/11 14:32	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/26/11 14:32	109-99-9	
Toluene	ND	ug/L	1.0	1		05/26/11 14:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/26/11 14:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/26/11 14:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/26/11 14:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/26/11 14:32	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/26/11 14:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/26/11 14:32	75-69-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10158020

Sample: DPE-5		Lab ID: 10158020005	Collected: 05/19/11 13:20	Received: 05/20/11 10:56	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	4.0	1		05/26/11 14:32	96-18-4	
1,1,2-Trichlorotrifluoroethane	5.2	ug/L	1.0	1		05/26/11 14:32	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/26/11 14:32	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/26/11 14:32	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		05/26/11 14:32	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/26/11 14:32	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/26/11 14:32	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/26/11 14:32	95-47-6	
Dibromofluoromethane (S)	106	%	75-125	1		05/26/11 14:32	1868-53-7	
1,2-Dichloroethane-d4 (S)	112	%	75-125	1		05/26/11 14:32	17060-07-0	
Toluene-d8 (S)	103	%	75-125	1		05/26/11 14:32	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125	1		05/26/11 14:32	460-00-4	

Sample: DPE-6		Lab ID: 10158020006	Collected: 05/19/11 13:40	Received: 05/20/11 10:56	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
Acetone	ND	ug/L	25.0	1		05/25/11 01:00	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		05/25/11 01:00	107-05-1	
Benzene	ND	ug/L	1.0	1		05/25/11 01:00	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/25/11 01:00	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/25/11 01:00	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/25/11 01:00	75-27-4	
Bromoform	ND	ug/L	4.0	1		05/25/11 01:00	75-25-2	
Bromomethane	ND	ug/L	4.0	1		05/25/11 01:00	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		05/25/11 01:00	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/25/11 01:00	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/25/11 01:00	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/25/11 01:00	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		05/25/11 01:00	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/25/11 01:00	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/25/11 01:00	75-00-3	
Chloroform	1.4	ug/L	1.0	1		05/25/11 01:00	67-66-3	
Chloromethane	ND	ug/L	4.0	1		05/25/11 01:00	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/25/11 01:00	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/25/11 01:00	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		05/25/11 01:00	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/25/11 01:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/25/11 01:00	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		05/25/11 01:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/25/11 01:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/25/11 01:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/25/11 01:00	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/25/11 01:00	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/25/11 01:00	75-34-3	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10158020

Sample: DPE-6	Lab ID: 10158020006	Collected: 05/19/11 13:40	Received: 05/20/11 10:56	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	1.0	1		05/25/11 01:00	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/25/11 01:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/25/11 01:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	4.0	1		05/25/11 01:00	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		05/25/11 01:00	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		05/25/11 01:00	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/25/11 01:00	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		05/25/11 01:00	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/25/11 01:00	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		05/25/11 01:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		05/25/11 01:00	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		05/25/11 01:00	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		05/25/11 01:00	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/25/11 01:00	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/25/11 01:00	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/25/11 01:00	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		05/25/11 01:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		05/25/11 01:00	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/25/11 01:00	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		05/25/11 01:00	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/25/11 01:00	103-65-1	
Styrene	ND	ug/L	1.0	1		05/25/11 01:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/25/11 01:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/25/11 01:00	79-34-5	
Tetrachloroethene	23.4	ug/L	1.0	1		05/25/11 01:00	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/25/11 01:00	109-99-9	
Toluene	ND	ug/L	1.0	1		05/25/11 01:00	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/25/11 01:00	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/25/11 01:00	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/25/11 01:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/25/11 01:00	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/25/11 01:00	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/25/11 01:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		05/25/11 01:00	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		05/25/11 01:00	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/25/11 01:00	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/25/11 01:00	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		05/25/11 01:00	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/25/11 01:00	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/25/11 01:00	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/25/11 01:00	95-47-6	
Dibromofluoromethane (S)	100	%	75-125	1		05/25/11 01:00	1868-53-7	
1,2-Dichloroethane-d4 (S)	114	%	75-125	1		05/25/11 01:00	17060-07-0	
Toluene-d8 (S)	101	%	75-125	1		05/25/11 01:00	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125	1		05/25/11 01:00	460-00-4	

ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10158020

Sample: DPE-7	Lab ID: 10158020007	Collected: 05/19/11 14:00	Received: 05/20/11 10:56	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		05/25/11 01:16	67-64-1	
Allyl chloride	ND ug/L		4.0	1		05/25/11 01:16	107-05-1	
Benzene	ND ug/L		1.0	1		05/25/11 01:16	71-43-2	
Bromobenzene	ND ug/L		1.0	1		05/25/11 01:16	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		05/25/11 01:16	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		05/25/11 01:16	75-27-4	
Bromoform	ND ug/L		4.0	1		05/25/11 01:16	75-25-2	
Bromomethane	ND ug/L		4.0	1		05/25/11 01:16	74-83-9	
2-Butanone (MEK)	ND ug/L		4.0	1		05/25/11 01:16	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		05/25/11 01:16	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		05/25/11 01:16	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		05/25/11 01:16	98-06-6	
Carbon tetrachloride	ND ug/L		1.0	1		05/25/11 01:16	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		05/25/11 01:16	108-90-7	
Chloroethane	ND ug/L		1.0	1		05/25/11 01:16	75-00-3	
Chloroform	2.3 ug/L		1.0	1		05/25/11 01:16	67-66-3	
Chloromethane	ND ug/L		4.0	1		05/25/11 01:16	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	1		05/25/11 01:16	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		05/25/11 01:16	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	1		05/25/11 01:16	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		05/25/11 01:16	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		05/25/11 01:16	106-93-4	
Dibromomethane	ND ug/L		4.0	1		05/25/11 01:16	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		05/25/11 01:16	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		05/25/11 01:16	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		05/25/11 01:16	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		05/25/11 01:16	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		05/25/11 01:16	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		05/25/11 01:16	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		05/25/11 01:16	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		05/25/11 01:16	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		4.0	1		05/25/11 01:16	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	1		05/25/11 01:16	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	1		05/25/11 01:16	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		05/25/11 01:16	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	1		05/25/11 01:16	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		05/25/11 01:16	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	1		05/25/11 01:16	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	1		05/25/11 01:16	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	1		05/25/11 01:16	60-29-7	
Ethylbenzene	ND ug/L		1.0	1		05/25/11 01:16	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		05/25/11 01:16	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		05/25/11 01:16	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		05/25/11 01:16	99-87-6	
Methylene Chloride	ND ug/L		4.0	1		05/25/11 01:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		4.0	1		05/25/11 01:16	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		05/25/11 01:16	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10158020

Sample: DPE-7		Lab ID: 10158020007	Collected: 05/19/11 14:00	Received: 05/20/11 10:56	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		05/25/11 01:16	91-20-3	
n-Propylbenzene	ND ug/L		1.0	1		05/25/11 01:16	103-65-1	
Styrene	ND ug/L		1.0	1		05/25/11 01:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		05/25/11 01:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		05/25/11 01:16	79-34-5	
Tetrachloroethene	15.9 ug/L		1.0	1		05/25/11 01:16	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	1		05/25/11 01:16	109-99-9	
Toluene	ND ug/L		1.0	1		05/25/11 01:16	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		05/25/11 01:16	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		05/25/11 01:16	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		05/25/11 01:16	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		05/25/11 01:16	79-00-5	
Trichloroethene	ND ug/L		1.0	1		05/25/11 01:16	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		05/25/11 01:16	75-69-4	
1,2,3-Trichloropropane	ND ug/L		4.0	1		05/25/11 01:16	96-18-4	
1,1,2-Trichlorotrifluoroethane	1.8 ug/L		1.0	1		05/25/11 01:16	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		05/25/11 01:16	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		05/25/11 01:16	108-67-8	
Vinyl chloride	ND ug/L		0.40	1		05/25/11 01:16	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		05/25/11 01:16	1330-20-7	
m&p-Xylene	ND ug/L		2.0	1		05/25/11 01:16	179601-23-1	
o-Xylene	ND ug/L		1.0	1		05/25/11 01:16	95-47-6	
Dibromofluoromethane (S)	100 %		75-125	1		05/25/11 01:16	1868-53-7	
1,2-Dichloroethane-d4 (S)	114 %		75-125	1		05/25/11 01:16	17060-07-0	
Toluene-d8 (S)	99 %		75-125	1		05/25/11 01:16	2037-26-5	
4-Bromofluorobenzene (S)	103 %		75-125	1		05/25/11 01:16	460-00-4	

Sample: DPE-8		Lab ID: 10158020008	Collected: 05/19/11 14:20	Received: 05/20/11 10:56	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
Acetone	ND ug/L		125	5		05/25/11 02:53	67-64-1	
Allyl chloride	ND ug/L		20.0	5		05/25/11 02:53	107-05-1	
Benzene	ND ug/L		5.0	5		05/25/11 02:53	71-43-2	
Bromobenzene	ND ug/L		5.0	5		05/25/11 02:53	108-86-1	
Bromochloromethane	ND ug/L		5.0	5		05/25/11 02:53	74-97-5	
Bromodichloromethane	ND ug/L		5.0	5		05/25/11 02:53	75-27-4	
Bromoform	ND ug/L		20.0	5		05/25/11 02:53	75-25-2	
Bromomethane	ND ug/L		20.0	5		05/25/11 02:53	74-83-9	
2-Butanone (MEK)	ND ug/L		20.0	5		05/25/11 02:53	78-93-3	
n-Butylbenzene	ND ug/L		5.0	5		05/25/11 02:53	104-51-8	
sec-Butylbenzene	ND ug/L		5.0	5		05/25/11 02:53	135-98-8	
tert-Butylbenzene	ND ug/L		5.0	5		05/25/11 02:53	98-06-6	
Carbon tetrachloride	ND ug/L		5.0	5		05/25/11 02:53	56-23-5	
Chlorobenzene	ND ug/L		5.0	5		05/25/11 02:53	108-90-7	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Sample Project No.: 10158020

Sample: DPE-8	Lab ID: 10158020008	Collected: 05/19/11 14:20	Received: 05/20/11 10:56	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
Chloroethane	ND ug/L		5.0	5		05/25/11 02:53	75-00-3	
Chloroform	ND ug/L		5.0	5		05/25/11 02:53	67-66-3	
Chloromethane	ND ug/L		20.0	5		05/25/11 02:53	74-87-3	
2-Chlorotoluene	ND ug/L		5.0	5		05/25/11 02:53	95-49-8	
4-Chlorotoluene	ND ug/L		5.0	5		05/25/11 02:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		20.0	5		05/25/11 02:53	96-12-8	
Dibromochloromethane	ND ug/L		5.0	5		05/25/11 02:53	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	5		05/25/11 02:53	106-93-4	
Dibromomethane	ND ug/L		20.0	5		05/25/11 02:53	74-95-3	
1,2-Dichlorobenzene	ND ug/L		5.0	5		05/25/11 02:53	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	5		05/25/11 02:53	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	5		05/25/11 02:53	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	5		05/25/11 02:53	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	5		05/25/11 02:53	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	5		05/25/11 02:53	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	5		05/25/11 02:53	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	5		05/25/11 02:53	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		20.0	5		05/25/11 02:53	156-60-5	
Dichlorofluoromethane	ND ug/L		5.0	5		05/25/11 02:53	75-43-4	
1,2-Dichloropropane	ND ug/L		20.0	5		05/25/11 02:53	78-87-5	
1,3-Dichloropropane	ND ug/L		5.0	5		05/25/11 02:53	142-28-9	
2,2-Dichloropropane	ND ug/L		20.0	5		05/25/11 02:53	594-20-7	
1,1-Dichloropropene	ND ug/L		5.0	5		05/25/11 02:53	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		20.0	5		05/25/11 02:53	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		20.0	5		05/25/11 02:53	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		20.0	5		05/25/11 02:53	60-29-7	
Ethylbenzene	ND ug/L		5.0	5		05/25/11 02:53	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		25.0	5		05/25/11 02:53	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		5.0	5		05/25/11 02:53	98-82-8	
p-Isopropyltoluene	ND ug/L		5.0	5		05/25/11 02:53	99-87-6	
Methylene Chloride	ND ug/L		20.0	5		05/25/11 02:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		20.0	5		05/25/11 02:53	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	5		05/25/11 02:53	1634-04-4	
Naphthalene	ND ug/L		20.0	5		05/25/11 02:53	91-20-3	
n-Propylbenzene	ND ug/L		5.0	5		05/25/11 02:53	103-65-1	
Styrene	ND ug/L		5.0	5		05/25/11 02:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		5.0	5		05/25/11 02:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	5		05/25/11 02:53	79-34-5	
Tetrachloroethene	698 ug/L		5.0	5		05/25/11 02:53	127-18-4	
Tetrahydrofuran	ND ug/L		50.0	5		05/25/11 02:53	109-99-9	
Toluene	ND ug/L		5.0	5		05/25/11 02:53	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	5		05/25/11 02:53	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	5		05/25/11 02:53	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	5		05/25/11 02:53	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	5		05/25/11 02:53	79-00-5	
Trichloroethene	ND ug/L		5.0	5		05/25/11 02:53	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	5		05/25/11 02:53	75-69-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10158020

Sample: DPE-8		Lab ID: 10158020008	Collected: 05/19/11 14:20	Received: 05/20/11 10:56	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		20.0	5		05/25/11 02:53	96-18-4	
1,1,2-Trichlorotrifluoroethane	77.9 ug/L		5.0	5		05/25/11 02:53	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		5.0	5		05/25/11 02:53	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		5.0	5		05/25/11 02:53	108-67-8	
Vinyl chloride	ND ug/L		2.0	5		05/25/11 02:53	75-01-4	
Xylene (Total)	ND ug/L		15.0	5		05/25/11 02:53	1330-20-7	
m&p-Xylene	ND ug/L		10.0	5		05/25/11 02:53	179601-23-1	
o-Xylene	ND ug/L		5.0	5		05/25/11 02:53	95-47-6	
Dibromofluoromethane (S)	99 %		75-125	5		05/25/11 02:53	1868-53-7	
1,2-Dichloroethane-d4 (S)	117 %		75-125	5		05/25/11 02:53	17060-07-0	
Toluene-d8 (S)	98 %		75-125	5		05/25/11 02:53	2037-26-5	
4-Bromofluorobenzene (S)	104 %		75-125	5		05/25/11 02:53	460-00-4	

Sample: Trip Blank		Lab ID: 10158020009	Collected:	Received: 05/20/11 10:56	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		05/24/11 23:08	67-64-1	
Allyl chloride	ND ug/L		4.0	1		05/24/11 23:08	107-05-1	
Benzene	ND ug/L		1.0	1		05/24/11 23:08	71-43-2	
Bromobenzene	ND ug/L		1.0	1		05/24/11 23:08	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		05/24/11 23:08	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		05/24/11 23:08	75-27-4	
Bromoform	ND ug/L		4.0	1		05/24/11 23:08	75-25-2	
Bromomethane	ND ug/L		4.0	1		05/24/11 23:08	74-83-9	
2-Butanone (MEK)	ND ug/L		4.0	1		05/24/11 23:08	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		05/24/11 23:08	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		05/24/11 23:08	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		05/24/11 23:08	98-06-6	
Carbon tetrachloride	ND ug/L		1.0	1		05/24/11 23:08	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		05/24/11 23:08	108-90-7	
Chloroethane	ND ug/L		1.0	1		05/24/11 23:08	75-00-3	
Chloroform	ND ug/L		1.0	1		05/24/11 23:08	67-66-3	
Chloromethane	ND ug/L		4.0	1		05/24/11 23:08	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	1		05/24/11 23:08	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		05/24/11 23:08	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	1		05/24/11 23:08	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		05/24/11 23:08	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		05/24/11 23:08	106-93-4	
Dibromomethane	ND ug/L		4.0	1		05/24/11 23:08	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		05/24/11 23:08	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		05/24/11 23:08	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		05/24/11 23:08	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		05/24/11 23:08	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		05/24/11 23:08	75-34-3	

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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10158020

Sample: Trip Blank		Lab ID: 1015802009	Collected:	Received: 05/20/11 10:56	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	1.0	1		05/24/11 23:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/24/11 23:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/24/11 23:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	4.0	1		05/24/11 23:08	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		05/24/11 23:08	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		05/24/11 23:08	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/24/11 23:08	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		05/24/11 23:08	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/24/11 23:08	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		05/24/11 23:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		05/24/11 23:08	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		05/24/11 23:08	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		05/24/11 23:08	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/24/11 23:08	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/24/11 23:08	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/24/11 23:08	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		05/24/11 23:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		05/24/11 23:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/24/11 23:08	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		05/24/11 23:08	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/24/11 23:08	103-65-1	
Styrene	ND	ug/L	1.0	1		05/24/11 23:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/24/11 23:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/24/11 23:08	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/24/11 23:08	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/24/11 23:08	109-99-9	
Toluene	ND	ug/L	1.0	1		05/24/11 23:08	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/24/11 23:08	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/24/11 23:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/24/11 23:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/24/11 23:08	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/24/11 23:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/24/11 23:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		05/24/11 23:08	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		05/24/11 23:08	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/24/11 23:08	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/24/11 23:08	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		05/24/11 23:08	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/24/11 23:08	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/24/11 23:08	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/24/11 23:08	95-47-6	
Dibromofluoromethane (S)	101	%	75-125	1		05/24/11 23:08	1868-53-7	
1,2-Dichloroethane-d4 (S)	111	%	75-125	1		05/24/11 23:08	17060-07-0	
Toluene-d8 (S)	100	%	75-125	1		05/24/11 23:08	2037-26-5	
4-Bromofluorobenzene (S)	104	%	75-125	1		05/24/11 23:08	460-00-4	

QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10158020

QC Batch: MSV/17005 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 10158020001, 10158020006, 10158020007, 10158020008, 10158020009

METHOD BLANK: 982069 Matrix: Water
Associated Lab Samples: 10158020001, 10158020006, 10158020007, 10158020008, 10158020009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/24/11 22:20	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/24/11 22:20	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/24/11 22:20	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/24/11 22:20	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	05/24/11 22:20	
1,1-Dichloroethane	ug/L	ND	1.0	05/24/11 22:20	
1,1-Dichloroethene	ug/L	ND	1.0	05/24/11 22:20	
1,1-Dichloropropene	ug/L	ND	1.0	05/24/11 22:20	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/24/11 22:20	
1,2,3-Trichloropropane	ug/L	ND	4.0	05/24/11 22:20	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/24/11 22:20	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	05/24/11 22:20	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	05/24/11 22:20	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/24/11 22:20	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/24/11 22:20	
1,2-Dichloroethane	ug/L	ND	1.0	05/24/11 22:20	
1,2-Dichloropropane	ug/L	ND	4.0	05/24/11 22:20	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	05/24/11 22:20	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/24/11 22:20	
1,3-Dichloropropane	ug/L	ND	1.0	05/24/11 22:20	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/24/11 22:20	
2,2-Dichloropropane	ug/L	ND	4.0	05/24/11 22:20	
2-Butanone (MEK)	ug/L	ND	4.0	05/24/11 22:20	
2-Chlorotoluene	ug/L	ND	1.0	05/24/11 22:20	
4-Chlorotoluene	ug/L	ND	1.0	05/24/11 22:20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	05/24/11 22:20	
Acetone	ug/L	ND	25.0	05/24/11 22:20	
Allyl chloride	ug/L	ND	4.0	05/24/11 22:20	
Benzene	ug/L	ND	1.0	05/24/11 22:20	
Bromobenzene	ug/L	ND	1.0	05/24/11 22:20	
Bromochloromethane	ug/L	ND	1.0	05/24/11 22:20	
Bromodichloromethane	ug/L	ND	1.0	05/24/11 22:20	
Bromoform	ug/L	ND	4.0	05/24/11 22:20	
Bromomethane	ug/L	ND	4.0	05/24/11 22:20	
Carbon tetrachloride	ug/L	ND	1.0	05/24/11 22:20	
Chlorobenzene	ug/L	ND	1.0	05/24/11 22:20	
Chloroethane	ug/L	ND	1.0	05/24/11 22:20	
Chloroform	ug/L	ND	1.0	05/24/11 22:20	
Chloromethane	ug/L	ND	4.0	05/24/11 22:20	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/24/11 22:20	
cis-1,3-Dichloropropene	ug/L	ND	4.0	05/24/11 22:20	
Dibromochloromethane	ug/L	ND	1.0	05/24/11 22:20	
Dibromomethane	ug/L	ND	4.0	05/24/11 22:20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10158020

METHOD BLANK: 982069

Matrix: Water

Associated Lab Samples: 10158020001, 10158020006, 10158020007, 10158020008, 10158020009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	05/24/11 22:20	
Dichlorofluoromethane	ug/L	ND	1.0	05/24/11 22:20	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	05/24/11 22:20	
Ethylbenzene	ug/L	ND	1.0	05/24/11 22:20	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	05/24/11 22:20	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	05/24/11 22:20	
m&p-Xylene	ug/L	ND	2.0	05/24/11 22:20	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/24/11 22:20	
Methylene Chloride	ug/L	ND	4.0	05/24/11 22:20	
n-Butylbenzene	ug/L	ND	1.0	05/24/11 22:20	
n-Propylbenzene	ug/L	ND	1.0	05/24/11 22:20	
Naphthalene	ug/L	ND	4.0	05/24/11 22:20	
o-Xylene	ug/L	ND	1.0	05/24/11 22:20	
p-Isopropyltoluene	ug/L	ND	1.0	05/24/11 22:20	
sec-Butylbenzene	ug/L	ND	1.0	05/24/11 22:20	
Styrene	ug/L	ND	1.0	05/24/11 22:20	
tert-Butylbenzene	ug/L	ND	1.0	05/24/11 22:20	
Tetrachloroethane	ug/L	ND	1.0	05/24/11 22:20	
Tetrahydrofuran	ug/L	ND	10.0	05/24/11 22:20	
Toluene	ug/L	ND	1.0	05/24/11 22:20	
trans-1,2-Dichloroethane	ug/L	ND	4.0	05/24/11 22:20	
trans-1,3-Dichloropropene	ug/L	ND	4.0	05/24/11 22:20	
Trichloroethene	ug/L	ND	1.0	05/24/11 22:20	
Trichlorofluoromethane	ug/L	ND	1.0	05/24/11 22:20	
Vinyl chloride	ug/L	ND	0.40	05/24/11 22:20	
Xylene (Total)	ug/L	ND	3.0	05/24/11 22:20	
1,2-Dichloroethane-d4 (S)	%	107	75-125	05/24/11 22:20	
4-Bromofluorobenzene (S)	%	103	75-125	05/24/11 22:20	
Dibromofluoromethane (S)	%	98	75-125	05/24/11 22:20	
Toluene-d8 (S)	%	98	75-125	05/24/11 22:20	

LABORATORY CONTROL SAMPLE: 982070

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.3	103	75-125	
1,1,1-Trichloroethane	ug/L	50	49.2	98	75-125	
1,1,2,2-Tetrachloroethane	ug/L	50	47.0	94	75-125	
1,1,2-Trichloroethane	ug/L	50	48.1	96	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	44.7	89	75-126	
1,1-Dichloroethane	ug/L	50	47.1	94	75-125	
1,1-Dichloroethene	ug/L	50	43.0	86	75-125	
1,1-Dichloropropene	ug/L	50	49.7	99	75-125	
1,2,3-Trichlorobenzene	ug/L	50	48.6	97	68-128	
1,2,3-Trichloropropane	ug/L	50	50.1	100	75-125	
1,2,4-Trichlorobenzene	ug/L	50	50.3	101	75-125	

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10158020

LABORATORY CONTROL SAMPLE: 982070

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	50	49.1	98	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	49.5	99	68-125	
1,2-Dibromoethane (EDB)	ug/L	50	48.5	97	75-125	
1,2-Dichlorobenzene	ug/L	50	48.2	96	75-125	
1,2-Dichloroethane	ug/L	50	50.9	102	71-125	
1,2-Dichloropropane	ug/L	50	49.2	98	75-125	
1,3,5-Trimethylbenzene	ug/L	50	48.9	98	75-125	
1,3-Dichlorobenzene	ug/L	50	47.1	94	75-125	
1,3-Dichloropropane	ug/L	50	49.1	98	75-125	
1,4-Dichlorobenzene	ug/L	50	48.7	97	75-125	
2,2-Dichloropropane	ug/L	50	46.5	93	69-132	
2-Butanone (MEK)	ug/L	50	46.1	92	56-137	
2-Chlorotoluene	ug/L	50	49.1	98	75-125	
4-Chlorotoluene	ug/L	50	48.9	98	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	50	54.2	108	67-125	
Acetone	ug/L	125	102	81	41-130	
Allyl chloride	ug/L	50	51.8	104	59-130	
Benzene	ug/L	50	44.6	89	75-125	
Bromobenzene	ug/L	50	47.8	96	75-125	
Bromochloromethane	ug/L	50	46.3	93	75-125	
Bromodichloromethane	ug/L	50	52.0	104	75-125	
Bromoform	ug/L	50	50.6	101	75-125	
Bromomethane	ug/L	50	44.1	88	45-138	
Carbon tetrachloride	ug/L	50	51.6	103	75-125	
Chlorobenzene	ug/L	50	48.2	96	75-125	
Chloroethane	ug/L	50	53.5	107	72-125	
Chloroform	ug/L	50	47.8	96	75-125	
Chloromethane	ug/L	50	46.6	93	65-125	
cis-1,2-Dichloroethene	ug/L	50	46.8	94	75-125	
cis-1,3-Dichloropropene	ug/L	50	50.6	101	75-125	
Dibromochloromethane	ug/L	50	50.4	101	75-125	
Dibromomethane	ug/L	50	48.8	98	75-125	
Dichlorodifluoromethane	ug/L	50	43.7	87	55-143	
Dichlorofluoromethane	ug/L	50	48.1	96	75-125	
Diethyl ether (Ethyl ether)	ug/L	50	50.5	101	75-125	
Ethylbenzene	ug/L	50	48.8	98	75-125	
Hexachloro-1,3-butadiene	ug/L	25	26.2	105	69-132	
Isopropylbenzene (Cumene)	ug/L	50	49.4	99	75-125	
m&p-Xylene	ug/L	100	95.1	95	75-125	
Methyl-tert-butyl ether	ug/L	50	47.4	95	75-125	
Methylene Chloride	ug/L	50	42.7	85	75-125	
n-Butylbenzene	ug/L	50	49.5	99	75-125	
n-Propylbenzene	ug/L	50	47.4	95	75-125	
Naphthalene	ug/L	50	48.3	97	74-129	
o-Xylene	ug/L	50	50.0	100	75-125	
p-Isopropyltoluene	ug/L	50	48.4	97	75-125	
sec-Butylbenzene	ug/L	50	48.6	97	75-125	
Styrene	ug/L	50	48.0	96	75-125	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10158020

LABORATORY CONTROL SAMPLE: 982070

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	49.2	98	75-125	
Tetrachloroethene	ug/L	50	49.8	100	75-125	
Tetrahydrofuran	ug/L	500	438	88	64-128	
Toluene	ug/L	50	47.6	95	75-125	
trans-1,2-Dichloroethene	ug/L	50	45.7	91	75-125	
trans-1,3-Dichloropropene	ug/L	50	51.0	102	75-125	
Trichloroethene	ug/L	50	51.3	103	75-125	
Trichlorofluoromethane	ug/L	50	53.5	107	75-125	
Vinyl chloride	ug/L	50	44.2	88	74-125	
Xylene (Total)	ug/L	150	145	97	75-125	
1,2-Dichloroethane-d4 (S)	%			110	75-125	
4-Bromofluorobenzene (S)	%			102	75-125	
Dibromofluoromethane (S)	%			100	75-125	
Toluene-d8 (S)	%			100	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 982245 982246

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		10158238001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	53.7	52.9	107	106	75-125	2	30	
1,1,1-Trichloroethane	ug/L	ND	50	50	53.2	51.1	106	102	75-128	4	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	48.7	48.2	97	96	75-125	.9	30	
1,1,2-Trichloroethane	ug/L	ND	50	50	51.7	49.9	103	100	75-125	4	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	50	61.5	60.4	123	121	75-150	2	30	
1,1-Dichloroethane	ug/L	ND	50	50	49.8	48.8	100	98	75-125	2	30	
1,1-Dichloroethene	ug/L	ND	50	50	47.1	45.9	94	92	75-134	2	30	
1,1-Dichloropropene	ug/L	ND	50	50	53.5	50.8	107	102	75-131	5	30	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	49.7	48.7	99	97	67-145	2	30	
1,2,3-Trichloropropane	ug/L	ND	50	50	50.4	48.0	101	96	75-125	5	30	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	50.8	49.0	102	98	74-138	4	30	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	50.9	49.5	102	99	75-126	3	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	51.0	49.1	102	98	68-129	4	30	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	52.4	51.7	105	103	75-125	1	30	
1,2-Dichlorobenzene	ug/L	ND	50	50	50.2	49.1	100	98	75-125	2	30	
1,2-Dichloroethane	ug/L	ND	50	50	52.2	51.1	104	102	69-129	2	30	
1,2-Dichloropropane	ug/L	ND	50	50	52.3	52.2	105	104	75-125	.3	30	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	50.3	49.0	101	98	75-125	2	30	
1,3-Dichlorobenzene	ug/L	ND	50	50	50.2	47.8	100	96	75-125	5	30	
1,3-Dichloropropane	ug/L	ND	50	50	50.5	51.0	101	102	75-125	1	30	
1,4-Dichlorobenzene	ug/L	ND	50	50	50.3	49.5	101	99	75-125	2	30	
2,2-Dichloropropane	ug/L	ND	50	50	49.8	48.1	100	96	69-141	3	30	
2-Butanone (MEK)	ug/L	ND	50	50	43.6	44.0	87	88	42-137	1	30	
2-Chlorotoluene	ug/L	ND	50	50	51.6	49.7	103	99	68-147	4	30	
4-Chlorotoluene	ug/L	ND	50	50	51.0	49.7	102	99	75-130	2	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	50	55.1	54.5	110	109	57-126	1	30	
Acetone	ug/L	ND	125	125	97.9	99.0	78	79	34-130	1	30	
Allyl chloride	ug/L	ND	50	50	53.7	52.2	107	104	53-140	3	30	

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10158020

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 982245												982246											
Parameter	Units	10158238001		MS	MSD	MS		MSD		% Rec		Max		Qual									
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD											
Benzene	ug/L	ND	50	50	50	47.3	46.1	95	92	73-136	3	30											
Bromobenzene	ug/L	ND	50	50	50	49.2	49.1	98	98	75-125	.3	30											
Bromochloromethane	ug/L	ND	50	50	50	47.3	46.3	95	93	75-125	2	30											
Bromodichloromethane	ug/L	ND	50	50	50	53.5	53.0	107	106	75-125	1	30											
Bromoform	ug/L	ND	50	50	50	51.4	50.9	103	102	75-125	1	30											
Bromomethane	ug/L	ND	50	50	50	54.4	54.5	109	109	41-150	.2	30											
Carbon tetrachloride	ug/L	ND	50	50	50	55.0	54.3	110	109	75-135	1	30											
Chlorobenzene	ug/L	ND	50	50	50	50.5	51.0	101	102	75-125	1	30											
Chloroethane	ug/L	ND	50	50	50	59.3	58.0	119	116	71-139	2	30											
Chloroform	ug/L	ND	50	50	50	50.4	48.6	101	97	75-125	4	30											
Chloromethane	ug/L	ND	50	50	50	50.5	49.6	101	99	65-144	2	30											
cis-1,2-Dichloroethene	ug/L	ND	50	50	50	48.7	46.5	97	93	75-125	5	30											
cis-1,3-Dichloropropene	ug/L	ND	50	50	50	51.9	51.7	104	103	75-125	.4	30											
Dibromochloromethane	ug/L	ND	50	50	50	54.3	53.2	109	106	75-125	2	30											
Dibromomethane	ug/L	ND	50	50	50	51.2	51.2	102	102	75-125	.07	30											
Dichlorodifluoromethane	ug/L	ND	50	50	50	62.0	60.2	124	120	55-150	3	30											
Dichlorofluoromethane	ug/L	ND	50	50	50	49.9	49.4	100	99	75-129	.9	30											
Diethyl ether (Ethyl ether)	ug/L	ND	50	50	50	48.4	47.5	97	95	75-125	2	30											
Ethylbenzene	ug/L	ND	50	50	50	51.9	51.0	104	102	75-137	2	30											
Hexachloro-1,3-butadiene	ug/L	ND	25	25	25	27.4	25.7	109	103	69-150	6	30											
Isopropylbenzene (Cumene)	ug/L	ND	50	50	50	53.8	51.6	108	103	75-125	4	30											
m&p-Xylene	ug/L	ND	100	100	100	102	99.3	102	99	71-133	3	30											
Methyl-tert-butyl ether	ug/L	ND	50	50	50	48.0	48.4	96	97	75-125	.9	30											
Methylene Chloride	ug/L	ND	50	50	50	45.5	45.0	91	90	75-125	1	30											
n-Butylbenzene	ug/L	ND	50	50	50	51.8	49.5	104	99	75-141	5	30											
n-Propylbenzene	ug/L	ND	50	50	50	51.2	49.2	102	98	75-132	4	30											
Naphthalene	ug/L	ND	50	50	50	48.7	48.2	97	96	74-138	1	30											
o-Xylene	ug/L	ND	50	50	50	53.4	52.1	107	104	75-128	3	30											
p-Isopropyltoluene	ug/L	ND	50	50	50	51.1	49.4	102	99	75-133	4	30											
sec-Butylbenzene	ug/L	ND	50	50	50	51.1	50.2	102	100	75-136	2	30											
Styrene	ug/L	ND	50	50	50	50.1	50.4	100	101	72-125	.7	30											
tert-Butylbenzene	ug/L	ND	50	50	50	52.3	50.2	105	100	75-132	4	30											
Tetrachloroethene	ug/L	ND	50	50	50	56.2	55.0	112	110	75-126	2	30											
Tetrahydrofuran	ug/L	ND	500	500	500	436	435	87	87	64-128	.05	30											
Toluene	ug/L	ND	50	50	50	51.0	50.3	102	101	75-125	1	30											
trans-1,2-Dichloroethene	ug/L	ND	50	50	50	49.8	47.8	100	96	75-127	4	30											
trans-1,3-Dichloropropene	ug/L	ND	50	50	50	53.2	52.4	106	105	75-125	1	30											
Trichloroethene	ug/L	ND	50	50	50	51.9	54.0	104	108	75-125	4	30											
Trichlorofluoromethane	ug/L	ND	50	50	50	66.2	64.1	132	128	75-150	3	30											
Vinyl chloride	ug/L	ND	50	50	50	49.7	48.9	99	98	74-142	2	30											
Xylene (Total)	ug/L	ND	150	150	150	155	151	104	101	73-132	3	30											
1,2-Dichloroethane-d4 (S)	%							110	106	75-125													
4-Bromofluorobenzene (S)	%							102	99	75-125													
Dibromofluoromethane (S)	%							97	96	75-125													
Toluene-d8 (S)	%							102	101	75-125													

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10158020

QC Batch: MSV/17021 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 10158020002, 10158020003, 10158020004, 10158020005

METHOD BLANK: 983482 Matrix: Water
Associated Lab Samples: 10158020002, 10158020003, 10158020004, 10158020005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/26/11 12:19	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/26/11 12:19	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/26/11 12:19	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/26/11 12:19	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	05/26/11 12:19	
1,1-Dichloroethane	ug/L	ND	1.0	05/26/11 12:19	
1,1-Dichloroethene	ug/L	ND	1.0	05/26/11 12:19	
1,1-Dichloropropene	ug/L	ND	1.0	05/26/11 12:19	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/26/11 12:19	
1,2,3-Trichloropropane	ug/L	ND	4.0	05/26/11 12:19	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/26/11 12:19	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	05/26/11 12:19	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	05/26/11 12:19	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/26/11 12:19	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/26/11 12:19	
1,2-Dichloroethane	ug/L	ND	1.0	05/26/11 12:19	
1,2-Dichloropropane	ug/L	ND	4.0	05/26/11 12:19	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	05/26/11 12:19	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/26/11 12:19	
1,3-Dichloropropane	ug/L	ND	1.0	05/26/11 12:19	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/26/11 12:19	
2,2-Dichloropropane	ug/L	ND	4.0	05/26/11 12:19	
2-Butanone (MEK)	ug/L	ND	4.0	05/26/11 12:19	
2-Chlorotoluene	ug/L	ND	1.0	05/26/11 12:19	
4-Chlorotoluene	ug/L	ND	1.0	05/26/11 12:19	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	05/26/11 12:19	
Acetone	ug/L	ND	25.0	05/26/11 12:19	
Allyl chloride	ug/L	ND	4.0	05/26/11 12:19	
Benzene	ug/L	ND	1.0	05/26/11 12:19	
Bromobenzene	ug/L	ND	1.0	05/26/11 12:19	
Bromochloromethane	ug/L	ND	1.0	05/26/11 12:19	
Bromodichloromethane	ug/L	ND	1.0	05/26/11 12:19	
Bromoform	ug/L	ND	4.0	05/26/11 12:19	
Bromomethane	ug/L	ND	4.0	05/26/11 12:19	
Carbon tetrachloride	ug/L	ND	1.0	05/26/11 12:19	
Chlorobenzene	ug/L	ND	1.0	05/26/11 12:19	
Chloroethane	ug/L	ND	1.0	05/26/11 12:19	
Chloroform	ug/L	ND	1.0	05/26/11 12:19	
Chloromethane	ug/L	ND	4.0	05/26/11 12:19	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/26/11 12:19	
cis-1,3-Dichloropropene	ug/L	ND	4.0	05/26/11 12:19	
Dibromochloromethane	ug/L	ND	1.0	05/26/11 12:19	
Dibromomethane	ug/L	ND	4.0	05/26/11 12:19	

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10158020

METHOD BLANK: 983482

Matrix: Water

Associated Lab Samples: 10158020002, 10158020003, 10158020004, 10158020005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	05/26/11 12:19	
Dichlorofluoromethane	ug/L	ND	1.0	05/26/11 12:19	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	05/26/11 12:19	
Ethylbenzene	ug/L	ND	1.0	05/26/11 12:19	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	05/26/11 12:19	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	05/26/11 12:19	
m&p-Xylene	ug/L	ND	2.0	05/26/11 12:19	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/26/11 12:19	
Methylene Chloride	ug/L	ND	4.0	05/26/11 12:19	
n-Butylbenzene	ug/L	ND	1.0	05/26/11 12:19	
n-Propylbenzene	ug/L	ND	1.0	05/26/11 12:19	
Naphthalene	ug/L	ND	4.0	05/26/11 12:19	
o-Xylene	ug/L	ND	1.0	05/26/11 12:19	
p-Isopropyltoluene	ug/L	ND	1.0	05/26/11 12:19	
sec-Butylbenzene	ug/L	ND	1.0	05/26/11 12:19	
Styrene	ug/L	ND	1.0	05/26/11 12:19	
tert-Butylbenzene	ug/L	ND	1.0	05/26/11 12:19	
Tetrachloroethene	ug/L	ND	1.0	05/26/11 12:19	
Tetrahydrofuran	ug/L	ND	10.0	05/26/11 12:19	
Toluene	ug/L	ND	1.0	05/26/11 12:19	
trans-1,2-Dichloroethene	ug/L	ND	4.0	05/26/11 12:19	
trans-1,3-Dichloropropene	ug/L	ND	4.0	05/26/11 12:19	
Trichloroethene	ug/L	ND	1.0	05/26/11 12:19	
Trichlorofluoromethane	ug/L	ND	1.0	05/26/11 12:19	
Vinyl chloride	ug/L	ND	0.40	05/26/11 12:19	
Xylene (Total)	ug/L	ND	3.0	05/26/11 12:19	
1,2-Dichloroethane-d4 (S)	%	108	75-125	05/26/11 12:19	
4-Bromofluorobenzene (S)	%	101	75-125	05/26/11 12:19	
Dibromofluoromethane (S)	%	103	75-125	05/26/11 12:19	
Toluene-d8 (S)	%	103	75-125	05/26/11 12:19	

LABORATORY CONTROL SAMPLE: 983483

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.0	108	75-125	
1,1,1-Trichloroethane	ug/L	50	53.6	107	75-125	
1,1,2,2-Tetrachloroethane	ug/L	50	52.9	106	75-125	
1,1,2-Trichloroethane	ug/L	50	55.1	110	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	48.2	96	75-126	
1,1-Dichloroethane	ug/L	50	53.7	107	75-125	
1,1-Dichloroethene	ug/L	50	55.8	112	75-125	
1,1-Dichloropropene	ug/L	50	52.0	104	75-125	
1,2,3-Trichlorobenzene	ug/L	50	53.7	107	68-128	
1,2,3-Trichloropropane	ug/L	50	51.4	103	75-125	
1,2,4-Trichlorobenzene	ug/L	50	53.7	107	75-125	

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10158020

LABORATORY CONTROL SAMPLE: 983483

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	50	53.1	106	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	50.8	102	68-125	
1,2-Dibromoethane (EDB)	ug/L	50	54.2	108	75-125	
1,2-Dichlorobenzene	ug/L	50	53.5	107	75-125	
1,2-Dichloroethane	ug/L	50	54.6	109	71-125	
1,2-Dichloropropane	ug/L	50	53.0	106	75-125	
1,3,5-Trimethylbenzene	ug/L	50	52.9	106	75-125	
1,3-Dichlorobenzene	ug/L	50	52.5	105	75-125	
1,3-Dichloropropane	ug/L	50	54.8	110	75-125	
1,4-Dichlorobenzene	ug/L	50	53.0	106	75-125	
2,2-Dichloropropane	ug/L	50	53.2	106	69-132	
2-Butanone (MEK)	ug/L	50	46.0	92	56-137	
2-Chlorotoluene	ug/L	50	53.1	106	75-125	
4-Chlorotoluene	ug/L	50	53.1	106	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	50	51.7	103	67-125	
Acetone	ug/L	125	104	84	41-130	
Allyl chloride	ug/L	50	52.5	105	59-130	
Benzene	ug/L	50	52.7	105	75-125	
Bromobenzene	ug/L	50	52.7	105	75-125	
Bromochloromethane	ug/L	50	57.6	115	75-125	
Bromodichloromethane	ug/L	50	53.3	107	75-125	
Bromoform	ug/L	50	55.9	112	75-125	
Bromomethane	ug/L	50	44.8	90	45-138	
Carbon tetrachloride	ug/L	50	53.2	106	75-125	
Chlorobenzene	ug/L	50	53.1	106	75-125	
Chloroethane	ug/L	50	53.0	106	72-125	
Chloroform	ug/L	50	54.0	108	75-125	
Chloromethane	ug/L	50	43.7	87	65-125	
cis-1,2-Dichloroethene	ug/L	50	51.9	104	75-125	
cis-1,3-Dichloropropene	ug/L	50	53.0	106	75-125	
Dibromochloromethane	ug/L	50	56.3	113	75-125	
Dibromomethane	ug/L	50	53.0	106	75-125	
Dichlorodifluoromethane	ug/L	50	42.2	84	55-143	
Dichlorofluoromethane	ug/L	50	53.0	106	75-125	
Diethyl ether (Ethyl ether)	ug/L	50	53.8	108	75-125	
Ethylbenzene	ug/L	50	52.9	106	75-125	
Hexachloro-1,3-butadiene	ug/L	25	26.0	104	69-132	
Isopropylbenzene (Cumene)	ug/L	50	53.1	106	75-125	
m&p-Xylene	ug/L	100	106	106	75-125	
Methyl-tert-butyl ether	ug/L	50	53.5	107	75-125	
Methylene Chloride	ug/L	50	40.0	80	75-125	
n-Butylbenzene	ug/L	50	53.5	107	75-125	
n-Propylbenzene	ug/L	50	53.9	108	75-125	
Naphthalene	ug/L	50	52.3	105	74-129	
o-Xylene	ug/L	50	53.0	106	75-125	
p-Isopropyltoluene	ug/L	50	53.9	108	75-125	
sec-Butylbenzene	ug/L	50	53.8	108	75-125	
Styrene	ug/L	50	53.2	106	75-125	

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10158020

LABORATORY CONTROL SAMPLE: 983483

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	52.5	105	75-125	
Tetrachloroethene	ug/L	50	51.2	102	75-125	
Tetrahydrofuran	ug/L	500	467	93	64-128	
Toluene	ug/L	50	52.2	104	75-125	
trans-1,2-Dichloroethene	ug/L	50	52.6	105	75-125	
trans-1,3-Dichloropropene	ug/L	50	55.3	111	75-125	
Trichloroethene	ug/L	50	51.6	103	75-125	
Trichlorofluoromethane	ug/L	50	54.4	109	75-125	
Vinyl chloride	ug/L	50	52.4	105	74-125	
Xylene (Total)	ug/L	150	159	106	75-125	
1,2-Dichloroethane-d4 (S)	%			102	75-125	
4-Bromofluorobenzene (S)	%			100	75-125	
Dibromofluoromethane (S)	%			101	75-125	
Toluene-d8 (S)	%			102	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 985426 985427

Parameter	Units	10158020003		MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
		Result	Conc.	Spike Conc.	Spike Conc.							
1,1,1,2-Tetrachloroethane	ug/L	ND	1000	1000	1090	1040	109	104	75-125	4	30	
1,1,1-Trichloroethane	ug/L	ND	1000	1000	1090	1030	109	103	75-128	6	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	1000	1000	1080	1090	108	109	75-125	.5	30	
1,1,2-Trichloroethane	ug/L	ND	1000	1000	1110	1110	111	111	75-125	.2	30	
1,1,2-Trichlorotrifluoroethane	ug/L	343	1000	1000	1330	1240	99	89	75-150	7	30	
1,1-Dichloroethane	ug/L	ND	1000	1000	1100	1050	110	105	75-125	5	30	
1,1-Dichloroethene	ug/L	ND	1000	1000	1090	1020	109	102	75-134	7	30	
1,1-Dichloropropene	ug/L	ND	1000	1000	1070	1010	107	101	75-131	6	30	
1,2,3-Trichlorobenzene	ug/L	ND	1000	1000	1090	1080	109	108	67-145	1	30	
1,2,3-Trichloropropane	ug/L	ND	1000	1000	1070	1050	107	105	75-125	1	30	
1,2,4-Trichlorobenzene	ug/L	ND	1000	1000	1090	1080	109	108	74-138	2	30	
1,2,4-Trimethylbenzene	ug/L	ND	1000	1000	1060	1040	106	104	75-126	2	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	1000	1000	1050	1080	105	108	68-129	3	30	
1,2-Dibromoethane (EDB)	ug/L	ND	1000	1000	1070	1080	107	108	75-125	1	30	
1,2-Dichlorobenzene	ug/L	ND	1000	1000	1070	1050	107	105	75-125	2	30	
1,2-Dichloroethane	ug/L	ND	1000	1000	1140	1110	114	111	69-129	3	30	
1,2-Dichloropropane	ug/L	ND	1000	1000	1070	1050	107	105	75-125	1	30	
1,3,5-Trimethylbenzene	ug/L	ND	1000	1000	1060	1030	106	103	75-125	3	30	
1,3-Dichlorobenzene	ug/L	ND	1000	1000	1050	1030	105	103	75-125	2	30	
1,3-Dichloropropane	ug/L	ND	1000	1000	1080	1100	108	110	75-125	2	30	
1,4-Dichlorobenzene	ug/L	ND	1000	1000	1050	1030	105	103	75-125	1	30	
2,2-Dichloropropane	ug/L	ND	1000	1000	1110	1050	111	105	69-141	6	30	
2-Butanone (MEK)	ug/L	ND	1000	1000	1030	1050	103	105	42-137	2	30	
2-Chlorotoluene	ug/L	ND	1000	1000	1070	1030	107	103	68-147	4	30	
4-Chlorotoluene	ug/L	ND	1000	1000	1080	1050	108	105	75-130	3	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	1000	1000	1080	1100	108	110	57-126	1	30	
Acetone	ug/L	ND	2500	2500	2290	2300	91	92	34-130	.8	30	
Allyl chloride	ug/L	ND	1000	1000	1070	1000	107	100	53-140	6	30	

Date: 06/03/2011 05:11 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10158020

Parameter	10158020003		MS		MSD		MS		MSD		MS		MSD		% Rec		Max	
	Units	Result	Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	MS % Rec	MSD % Rec	Limits	RPD	RPD	RPD	RPD	RPD	RPD	Qual
Benzene	ug/L	ND	1000	1000	1070	1020	107	102	73-136	5	30							
Bromobenzene	ug/L	ND	1000	1000	1050	1020	105	102	75-125	3	30							
Bromochloromethane	ug/L	ND	1000	1000	1170	1110	117	111	75-125	5	30							
Bromodichloromethane	ug/L	ND	1000	1000	1080	1050	108	105	75-125	2	30							
Bromoform	ug/L	ND	1000	1000	1090	1080	109	108	75-125	.5	30							
Bromomethane	ug/L	ND	1000	1000	879	788	88	79	41-150	11	30							
Carbon tetrachloride	ug/L	ND	1000	1000	1080	1010	108	101	75-135	7	30							
Chlorobenzene	ug/L	ND	1000	1000	1060	1020	106	102	75-125	3	30							
Chloroethane	ug/L	ND	1000	1000	1110	1020	111	102	71-139	8	30							
Chloroform	ug/L	ND	1000	1000	1110	1040	111	104	75-125	7	30							
Chloromethane	ug/L	ND	1000	1000	953	885	95	88	65-144	7	30							
cis-1,2-Dichloroethene	ug/L	ND	1000	1000	1100	1060	110	106	75-125	4	30							
cis-1,3-Dichloropropene	ug/L	ND	1000	1000	1060	1050	106	105	75-125	1	30							
Dibromochloromethane	ug/L	ND	1000	1000	1100	1100	110	110	75-125	.2	30							
Dibromomethane	ug/L	ND	1000	1000	1070	1060	107	106	75-125	.7	30							
Dichlorodifluoromethane	ug/L	ND	1000	1000	1200	1100	120	110	55-150	9	30							
Dichlorofluoromethane	ug/L	ND	1000	1000	1080	1020	108	102	75-129	5	30							
Diethyl ether (Ethyl ether)	ug/L	ND	1000	1000	1100	1020	110	102	75-125	8	30							
Ethylbenzene	ug/L	ND	1000	1000	1060	1010	106	101	75-137	5	30							
Hexachloro-1,3-butadiene	ug/L	ND	500	500	509	485	102	97	69-150	5	30							
Isopropylbenzene (Cumene)	ug/L	ND	1000	1000	1070	1020	107	102	75-125	5	30							
m&p-Xylene	ug/L	ND	2000	2000	2100	2020	105	101	71-133	4	30							
Methyl-tert-butyl ether	ug/L	ND	1000	1000	1120	1100	112	110	75-125	2	30							
Methylene Chloride	ug/L	ND	1000	1000	822	783	82	78	75-125	5	30							
n-Butylbenzene	ug/L	ND	1000	1000	1070	1040	107	104	75-141	3	30							
n-Propylbenzene	ug/L	ND	1000	1000	1080	1040	108	104	75-132	4	30							
Naphthalene	ug/L	ND	1000	1000	1080	1090	108	109	74-138	.6	30							
o-Xylene	ug/L	ND	1000	1000	1060	1020	106	102	75-128	4	30							
p-Isopropyltoluene	ug/L	ND	1000	1000	1060	1030	106	103	75-133	3	30							
sec-Butylbenzene	ug/L	ND	1000	1000	1060	1020	106	102	75-136	4	30							
Styrene	ug/L	ND	1000	1000	1060	1030	106	103	72-125	3	30							
tert-Butylbenzene	ug/L	ND	1000	1000	1030	1010	103	101	75-132	3	30							
Tetrachloroethene	ug/L	3220	1000	1000	3710	3500	49	27	75-126	6	30	M1						
Tetrahydrofuran	ug/L	ND	10000	10000	10300	10300	103	103	64-128	.4	30							
Toluene	ug/L	ND	1000	1000	1040	998	104	100	75-125	4	30							
trans-1,2-Dichloroethene	ug/L	ND	1000	1000	1070	1010	107	101	75-127	6	30							
trans-1,3-Dichloropropene	ug/L	ND	1000	1000	1110	1090	111	109	75-125	2	30							
Trichloroethene	ug/L	ND	1000	1000	1020	983	102	98	75-125	4	30							
Trichlorofluoromethane	ug/L	ND	1000	1000	1190	1030	119	103	75-150	14	30							
Vinyl chloride	ug/L	ND	1000	1000	1120	1060	112	106	74-142	6	30							
Xylene (Total)	ug/L	ND	3000	3000	3150	3030	105	101	73-132	4	30							
1,2-Dichloroethane-d4 (S)	%						107	105	75-125									
4-Bromofluorobenzene (S)	%						101	99	75-125									
Dibromofluoromethane (S)	%						103	103	75-125									
Toluene-d8 (S)	%						103	102	75-125									

QUALIFIERS

Project: CRC City of Rochester

Pace Project No.: 10158020

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.

SG - Silica Gel - Clean-Up

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC City of Rochester

Pace Project No.: 10158020

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10158020001	DPE-1	EPA 8260	MSV/17005		
10158020002	DPE-2	EPA 8260	MSV/17021		
10158020003	DPE-3	EPA 8260	MSV/17021		
10158020004	DPE-4	EPA 8260	MSV/17021		
10158020005	DPE-5	EPA 8260	MSV/17021		
10158020006	DPE-6	EPA 8260	MSV/17005		
10158020007	DPE-7	EPA 8260	MSV/17005		
10158020008	DPE-8	EPA 8260	MSV/17005		
10158020009	Trip Blank	EPA 8260	MSV/17005		



CHAIN-OF-CUSTODY / Analytical Request Document

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

1111 566271 / 1139
 10158020
 10148009

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, Fax: 952-887-9605
 ext 205

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: Carolyne Trout
 Pace Profile #:

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
SEWAGE	SW
SOLID	SL
OIL	OL
AIR	AR
SOIL	TS
OTHER	OT
TISSUE	TI

ITEM #	MATRIX CODE	SAMPLE TYPE	G-GRAB C=COMP	COLLECTED		# OF CONTAINERS	PRESERVATIVES							Filtered (Y/N)	Requested Analysis	Pace Project Number	Lab I.D.
				COMPOSITE START	COMPOSITE END/GARAB		DATE	TIME	DATE	TIME	DATE	TIME	DATE				
1																	
2																	
3	D P E - 1	W G	G	5/19/11	12:00	3								X	001		
4	D P E - 2	W G	G	5/19/11	12:20	3								X	002		
5	D P E - 3	W G	G	5/19/11	12:40	3								X	003		
6	D P E - 4	W G	G	5/19/11	13:00	3								X	004		
7	D P E - 5	W G	G	5/19/11	13:20	3								X	005		
8	D P E - 6	W G	G	5/19/11	13:40	3								X	006		
5	D P E - 7	W G	G	5/19/11	14:00	3								X	007		
6	D P E - 8	W G	G	5/19/11	14:20	3								X	008		
7																	
8																	

RELINQUISHED BY / AFFILIATION DATE TIME **ACCEPTED BY / AFFILIATION** DATE TIME **SAMPLE CONDITIONS**

None 5-20-11 105658

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: [Signature]
 SIGNATURE of SAMPLER: [Signature] DATE Signed (MM/DD/YY)



Sample Condition Upon Receipt

10158020

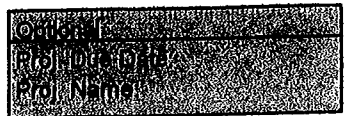
Client Name: Landmark

Project # 10158009
4/20/11 MSP

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 No _____

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

Cooler Temperature 5.8
Temp should be above freezing to 6°C

Biological Tissue Is Frozen: Yes No

Date and initials of person examining contents: 5-20-11

		Comments:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>wrong ID on labels</u>
-Includes date/time/ID/Analysis Matrix:		
All containers needing acid/base preservation have been checked. Noncompliance are noted in 13.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Initial when completed
Exceptions: <u>VOA</u> Coliform, TOC, Oil and Grease, WI-DRO (water)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headpace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>042811-1</u>		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature]

Date: 5/23/11

May 27, 2011

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

RE: Project: CRC City of Rochester
Pace Project No.: 10158016

Dear Mr. Skramstad:

Enclosed are the analytical results for sample(s) received by the laboratory on May 20, 2011. 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@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CRC City of Rochester

Pace Project No.: 10158016

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

EPA Region 8 Certification #: Pace

Florida/NELAP Certification #: E87605

Georgia Certification #: 959

Idaho Certification #: MN00064

Illinois Certification #: 200011

Iowa Certification #: 368

Kansas Certification #: E-10167

Louisiana Certification #: 03086

Louisiana Certification #: LA080009

Maine Certification #: 2007029

Maryland Certification #: 322

Michigan DEQ Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT CERT0092

Nebraska Certification #: Pace

Nevada Certification #: MN_00064

New Jersey Certification #: MN-002

New Mexico Certification #: Pace

New York Certification #: 11647

North Carolina Certification #: 530

North Dakota Certification #: R-036

North Dakota Certification #: R-036A

Ohio VAP Certification #: CL101

Oklahoma Certification #: D9921

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Tennessee Certification #: 02818

Texas Certification #: T104704192

Washington Certification #: C754

Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: CRC City of Rochester
Pace Project No.: 10158016

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10158016001	AS-Influent	Water	05/19/11 15:00	05/20/11 10:56
10158016002	AS-Effluent	Water	05/19/11 15:15	05/20/11 10:56

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: CRC City of Rochester

Pace Project No.: 10158016

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10158016001	AS-Influent	EPA 624	ECB	82
10158016002	AS-Effluent	EPA 624	ECB	82

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10158016

Sample: AS-Influent		Lab ID: 10158016001	Collected: 05/19/11 15:00	Received: 05/20/11 10:56	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV		Analytical Method: EPA 624						
Acetone	ND	ug/L	25.0	1		05/24/11 20:27	67-64-1	
Acrolein	ND	ug/L	10.0	1		05/24/11 20:27	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1		05/24/11 20:27	107-13-1	
Allyl chloride	ND	ug/L	4.0	1		05/24/11 20:27	107-05-1	
Benzene	ND	ug/L	1.0	1		05/24/11 20:27	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/24/11 20:27	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/24/11 20:27	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/24/11 20:27	75-27-4	
Bromoform	ND	ug/L	4.0	1		05/24/11 20:27	75-25-2	
Bromomethane	ND	ug/L	4.0	1		05/24/11 20:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		05/24/11 20:27	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/24/11 20:27	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/24/11 20:27	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/24/11 20:27	98-06-6	
Carbon disulfide	ND	ug/L	1.0	1		05/24/11 20:27	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/24/11 20:27	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/24/11 20:27	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/24/11 20:27	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		05/24/11 20:27	110-75-8	
Chloroform	ND	ug/L	1.0	1		05/24/11 20:27	67-66-3	
Chloromethane	ND	ug/L	4.0	1		05/24/11 20:27	74-87-3	
Chloroprene	ND	ug/L	1.0	1		05/24/11 20:27	126-99-8	
2-Chlorotoluene	ND	ug/L	1.0	1		05/24/11 20:27	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/24/11 20:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		05/24/11 20:27	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/24/11 20:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/24/11 20:27	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		05/24/11 20:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/24/11 20:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/24/11 20:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/24/11 20:27	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/24/11 20:27	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/24/11 20:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/24/11 20:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/24/11 20:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/24/11 20:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	4.0	1		05/24/11 20:27	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		05/24/11 20:27	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		05/24/11 20:27	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/24/11 20:27	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		05/24/11 20:27	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/24/11 20:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		05/24/11 20:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		05/24/11 20:27	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		05/24/11 20:27	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		05/24/11 20:27	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/24/11 20:27	87-68-3	

Date: 05/27/2011 04:01 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10158016

Sample: AS-Influent		Lab ID: 10158016001	Collected: 05/19/11 15:00	Received: 05/20/11 10:56	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		05/24/11 20:27	591-78-6	
Iodomethane	ND ug/L		4.0	1		05/24/11 20:27	74-88-4	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		05/24/11 20:27	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		05/24/11 20:27	99-87-6	
Methylene Chloride	ND ug/L		4.0	1		05/24/11 20:27	75-09-2	
2-Methylnaphthalene	ND ug/L		5.0	1		05/24/11 20:27	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND ug/L		4.0	1		05/24/11 20:27	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		05/24/11 20:27	1634-04-4	
Naphthalene	ND ug/L		4.0	1		05/24/11 20:27	91-20-3	
n-Propylbenzene	ND ug/L		1.0	1		05/24/11 20:27	103-65-1	
Styrene	ND ug/L		1.0	1		05/24/11 20:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		05/24/11 20:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		05/24/11 20:27	79-34-5	
Tetrachloroethene	21.8 ug/L		1.0	1		05/24/11 20:27	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	1		05/24/11 20:27	109-99-9	
Toluene	ND ug/L		1.0	1		05/24/11 20:27	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		05/24/11 20:27	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		05/24/11 20:27	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		05/24/11 20:27	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		05/24/11 20:27	79-00-5	
Trichloroethene	ND ug/L		1.0	1		05/24/11 20:27	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		05/24/11 20:27	75-69-4	
1,2,3-Trichloropropane	ND ug/L		4.0	1		05/24/11 20:27	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	1		05/24/11 20:27	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		05/24/11 20:27	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		05/24/11 20:27	108-67-8	
Vinyl acetate	ND ug/L		10.0	1		05/24/11 20:27	108-05-4	
Vinyl chloride	ND ug/L		0.40	1		05/24/11 20:27	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		05/24/11 20:27	1330-20-7	
m&p-Xylene	ND ug/L		2.0	1		05/24/11 20:27	179601-23-1	
o-Xylene	ND ug/L		1.0	1		05/24/11 20:27	95-47-6	
Dibromofluoromethane (S)	102 %		75-125	1		05/24/11 20:27	1868-53-7	
4-Bromofluorobenzene (S)	101 %		75-125	1		05/24/11 20:27	460-00-4	
Toluene-d8 (S)	101 %		75-125	1		05/24/11 20:27	2037-26-5	
1,2-Dichloroethane-d4 (S)	106 %		75-125	1		05/24/11 20:27	17060-07-0	

Sample: AS-Effluent		Lab ID: 10158016002	Collected: 05/19/11 15:15	Received: 05/20/11 10:56	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV		Analytical Method: EPA 624						
Acetone	ND ug/L		25.0	1		05/24/11 20:44	67-64-1	
Acrolein	ND ug/L		10.0	1		05/24/11 20:44	107-02-8	
Acrylonitrile	ND ug/L		10.0	1		05/24/11 20:44	107-13-1	
Allyl chloride	ND ug/L		4.0	1		05/24/11 20:44	107-05-1	
Benzene	ND ug/L		1.0	1		05/24/11 20:44	71-43-2	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10158016

Sample: AS-Effluent		Lab ID: 10158016002	Collected: 05/19/11 15:15	Received: 05/20/11 10:56	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		05/24/11 20:44	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		05/24/11 20:44	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		05/24/11 20:44	75-27-4	
Bromoform	ND ug/L		4.0	1		05/24/11 20:44	75-25-2	
Bromomethane	ND ug/L		4.0	1		05/24/11 20:44	74-83-9	
2-Butanone (MEK)	ND ug/L		4.0	1		05/24/11 20:44	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		05/24/11 20:44	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		05/24/11 20:44	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		05/24/11 20:44	98-06-6	
Carbon disulfide	ND ug/L		1.0	1		05/24/11 20:44	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		05/24/11 20:44	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		05/24/11 20:44	108-90-7	
Chloroethane	ND ug/L		1.0	1		05/24/11 20:44	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		10.0	1		05/24/11 20:44	110-75-8	
Chloroform	ND ug/L		1.0	1		05/24/11 20:44	67-66-3	
Chloromethane	ND ug/L		4.0	1		05/24/11 20:44	74-87-3	
Chloroprene	ND ug/L		1.0	1		05/24/11 20:44	126-99-8	
2-Chlorotoluene	ND ug/L		1.0	1		05/24/11 20:44	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		05/24/11 20:44	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	1		05/24/11 20:44	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		05/24/11 20:44	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		05/24/11 20:44	106-93-4	
Dibromomethane	ND ug/L		4.0	1		05/24/11 20:44	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		05/24/11 20:44	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		05/24/11 20:44	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		05/24/11 20:44	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		05/24/11 20:44	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		05/24/11 20:44	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		05/24/11 20:44	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		05/24/11 20:44	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		05/24/11 20:44	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		4.0	1		05/24/11 20:44	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	1		05/24/11 20:44	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	1		05/24/11 20:44	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		05/24/11 20:44	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	1		05/24/11 20:44	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		05/24/11 20:44	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	1		05/24/11 20:44	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	1		05/24/11 20:44	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	1		05/24/11 20:44	60-29-7	
Ethylbenzene	ND ug/L		1.0	1		05/24/11 20:44	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		05/24/11 20:44	87-68-3	
2-Hexanone	ND ug/L		4.0	1		05/24/11 20:44	591-78-6	
Iodomethane	ND ug/L		4.0	1		05/24/11 20:44	74-88-4	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		05/24/11 20:44	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		05/24/11 20:44	99-87-6	
Methylene Chloride	ND ug/L		4.0	1		05/24/11 20:44	75-09-2	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10158016

Sample: AS-Effluent	Lab ID: 10158016002	Collected: 05/19/11 15:15	Received: 05/20/11 10:56	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		05/24/11 20:44	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND ug/L		4.0	1		05/24/11 20:44	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		05/24/11 20:44	1634-04-4	
Naphthalene	ND ug/L		4.0	1		05/24/11 20:44	91-20-3	
n-Propylbenzene	ND ug/L		1.0	1		05/24/11 20:44	103-65-1	
Styrene	ND ug/L		1.0	1		05/24/11 20:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		05/24/11 20:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		05/24/11 20:44	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		05/24/11 20:44	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	1		05/24/11 20:44	109-99-9	
Toluene	ND ug/L		1.0	1		05/24/11 20:44	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		05/24/11 20:44	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		05/24/11 20:44	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		05/24/11 20:44	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		05/24/11 20:44	79-00-5	
Trichloroethene	ND ug/L		1.0	1		05/24/11 20:44	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		05/24/11 20:44	75-69-4	
1,2,3-Trichloropropane	ND ug/L		4.0	1		05/24/11 20:44	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	1		05/24/11 20:44	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		05/24/11 20:44	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		05/24/11 20:44	108-67-8	
Vinyl acetate	ND ug/L		10.0	1		05/24/11 20:44	108-05-4	
Vinyl chloride	ND ug/L		0.40	1		05/24/11 20:44	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		05/24/11 20:44	1330-20-7	
m&p-Xylene	ND ug/L		2.0	1		05/24/11 20:44	179601-23-1	
o-Xylene	ND ug/L		1.0	1		05/24/11 20:44	95-47-6	
Dibromofluoromethane (S)	102 %		75-125	1		05/24/11 20:44	1868-53-7	
4-Bromofluorobenzene (S)	100 %		75-125	1		05/24/11 20:44	460-00-4	
Toluene-d8 (S)	102 %		75-125	1		05/24/11 20:44	2037-26-5	
1,2-Dichloroethane-d4 (S)	104 %		75-125	1		05/24/11 20:44	17060-07-0	

QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10158016

QC Batch: MSV/17003 Analysis Method: EPA 624
 QC Batch Method: EPA 624 Analysis Description: 624 MSV
 Associated Lab Samples: 10158016001, 10158016002

METHOD BLANK: 981982 Matrix: Water

Associated Lab Samples: 10158016001, 10158016002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/24/11 18:18	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/24/11 18:18	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/24/11 18:18	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/24/11 18:18	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	05/24/11 18:18	
1,1-Dichloroethane	ug/L	ND	1.0	05/24/11 18:18	
1,1-Dichloroethene	ug/L	ND	1.0	05/24/11 18:18	
1,1-Dichloropropene	ug/L	ND	1.0	05/24/11 18:18	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/24/11 18:18	
1,2,3-Trichloropropane	ug/L	ND	4.0	05/24/11 18:18	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/24/11 18:18	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	05/24/11 18:18	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	05/24/11 18:18	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/24/11 18:18	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/24/11 18:18	
1,2-Dichloroethane	ug/L	ND	1.0	05/24/11 18:18	
1,2-Dichloropropane	ug/L	ND	4.0	05/24/11 18:18	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	05/24/11 18:18	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/24/11 18:18	
1,3-Dichloropropane	ug/L	ND	1.0	05/24/11 18:18	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/24/11 18:18	
2,2-Dichloropropane	ug/L	ND	4.0	05/24/11 18:18	
2-Butanone (MEK)	ug/L	ND	4.0	05/24/11 18:18	
2-Chloroethylvinyl ether	ug/L	ND	10.0	05/24/11 18:18	
2-Chlorotoluene	ug/L	ND	1.0	05/24/11 18:18	
2-Hexanone	ug/L	ND	4.0	05/24/11 18:18	
2-Methylnaphthalene	ug/L	ND	5.0	05/24/11 18:18	
4-Chlorotoluene	ug/L	ND	1.0	05/24/11 18:18	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	05/24/11 18:18	
Acetone	ug/L	ND	25.0	05/24/11 18:18	
Acrolein	ug/L	ND	10.0	05/24/11 18:18	
Acrylonitrile	ug/L	ND	10.0	05/24/11 18:18	
Allyl chloride	ug/L	ND	4.0	05/24/11 18:18	
Benzene	ug/L	ND	1.0	05/24/11 18:18	
Bromobenzene	ug/L	ND	1.0	05/24/11 18:18	
Bromochloromethane	ug/L	ND	1.0	05/24/11 18:18	
Bromodichloromethane	ug/L	ND	1.0	05/24/11 18:18	
Bromoform	ug/L	ND	4.0	05/24/11 18:18	
Bromomethane	ug/L	ND	4.0	05/24/11 18:18	
Carbon disulfide	ug/L	ND	1.0	05/24/11 18:18	
Carbon tetrachloride	ug/L	ND	1.0	05/24/11 18:18	
Chlorobenzene	ug/L	ND	1.0	05/24/11 18:18	
Chloroethane	ug/L	ND	1.0	05/24/11 18:18	

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10158016

METHOD BLANK: 981982

Matrix: Water

Associated Lab Samples: 10158016001, 10158016002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroform	ug/L	ND	1.0	05/24/11 18:18	
Chloromethane	ug/L	ND	4.0	05/24/11 18:18	
Chloroprene	ug/L	ND	1.0	05/24/11 18:18	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/24/11 18:18	
cis-1,3-Dichloropropene	ug/L	ND	4.0	05/24/11 18:18	
Dibromochloromethane	ug/L	ND	1.0	05/24/11 18:18	
Dibromomethane	ug/L	ND	4.0	05/24/11 18:18	
Dichlorodifluoromethane	ug/L	ND	1.0	05/24/11 18:18	
Dichlorofluoromethane	ug/L	ND	1.0	05/24/11 18:18	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	05/24/11 18:18	
Ethylbenzene	ug/L	ND	1.0	05/24/11 18:18	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	05/24/11 18:18	
Iodomethane	ug/L	ND	4.0	05/24/11 18:18	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	05/24/11 18:18	
m&p-Xylene	ug/L	ND	2.0	05/24/11 18:18	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/24/11 18:18	
Methylene Chloride	ug/L	ND	4.0	05/24/11 18:18	
n-Butylbenzene	ug/L	ND	1.0	05/24/11 18:18	
n-Propylbenzene	ug/L	ND	1.0	05/24/11 18:18	
Naphthalene	ug/L	ND	4.0	05/24/11 18:18	
o-Xylene	ug/L	ND	1.0	05/24/11 18:18	
p-Isopropyltoluene	ug/L	ND	1.0	05/24/11 18:18	
sec-Butylbenzene	ug/L	ND	1.0	05/24/11 18:18	
Styrene	ug/L	ND	1.0	05/24/11 18:18	
tert-Butylbenzene	ug/L	ND	1.0	05/24/11 18:18	
Tetrachloroethene	ug/L	ND	1.0	05/24/11 18:18	
Tetrahydrofuran	ug/L	ND	10.0	05/24/11 18:18	
Toluene	ug/L	ND	1.0	05/24/11 18:18	
trans-1,2-Dichloroethene	ug/L	ND	4.0	05/24/11 18:18	
trans-1,3-Dichloropropene	ug/L	ND	4.0	05/24/11 18:18	
Trichloroethene	ug/L	ND	1.0	05/24/11 18:18	
Trichlorofluoromethane	ug/L	ND	1.0	05/24/11 18:18	
Vinyl acetate	ug/L	ND	10.0	05/24/11 18:18	
Vinyl chloride	ug/L	ND	0.40	05/24/11 18:18	
Xylene (Total)	ug/L	ND	3.0	05/24/11 18:18	
1,2-Dichloroethane-d4 (S)	%	103	75-125	05/24/11 18:18	
4-Bromofluorobenzene (S)	%	101	75-125	05/24/11 18:18	
Dibromofluoromethane (S)	%	101	75-125	05/24/11 18:18	
Toluene-d8 (S)	%	101	75-125	05/24/11 18:18	

LABORATORY CONTROL SAMPLE: 981983

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.4	105	75-129	
1,1,1-Trichloroethane	ug/L	50	50.9	102	73-144	

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10158016

LABORATORY CONTROL SAMPLE: 981983

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	50	52.7	105	75-125	
1,1,2-Trichloroethane	ug/L	50	53.5	107	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	45.6	91	75-143	
1,1-Dichloroethane	ug/L	50	51.0	102	75-135	
1,1-Dichloroethene	ug/L	50	51.1	102	75-133	
1,1-Dichloropropene	ug/L	50	49.8	100	75-131	
1,2,3-Trichlorobenzene	ug/L	50	53.8	108	73-141	
1,2,3-Trichloropropane	ug/L	50	52.5	105	75-126	
1,2,4-Trichlorobenzene	ug/L	50	54.6	109	70-148	
1,2,4-Trimethylbenzene	ug/L	50	53.7	107	75-141	
1,2-Dibromo-3-chloropropane	ug/L	50	52.2	104	64-135	
1,2-Dibromoethane (EDB)	ug/L	50	53.1	106	75-125	
1,2-Dichlorobenzene	ug/L	50	54.0	108	75-125	
1,2-Dichloroethane	ug/L	50	51.8	104	75-136	
1,2-Dichloropropane	ug/L	50	51.2	102	75-130	
1,3,5-Trimethylbenzene	ug/L	50	53.2	106	75-141	
1,3-Dichlorobenzene	ug/L	50	53.4	107	75-125	
1,3-Dichloropropane	ug/L	50	52.4	105	75-125	
1,4-Dichlorobenzene	ug/L	50	52.9	106	75-125	
2,2-Dichloropropane	ug/L	50	48.7	97	50-150	
2-Butanone (MEK)	ug/L	50	49.0	98	58-138	
2-Chloroethylvinyl ether	ug/L	125	127	102	50-150	
2-Chlorotoluene	ug/L	50	53.0	106	75-132	
2-Hexanone	ug/L	50	52.4	105	65-135	
2-Methylnaphthalene	ug/L	25	28.2	113	62-150	
4-Chlorotoluene	ug/L	50	54.5	109	75-135	
4-Methyl-2-pentanone (MIBK)	ug/L	50	51.5	103	69-137	
Acetone	ug/L	125	110	88	52-141	
Acrolein	ug/L	500	513	103	50-150	
Acrylonitrile	ug/L	500	487	97	75-130	
Allyl chloride	ug/L	50	50.1	100	68-150	
Benzene	ug/L	50	50.6	101	75-125	
Bromobenzene	ug/L	50	52.7	105	75-125	
Bromochloromethane	ug/L	50	54.6	109	75-129	
Bromodichloromethane	ug/L	50	51.3	103	75-142	
Bromoform	ug/L	50	52.5	105	66-135	
Bromomethane	ug/L	50	56.2	112	57-150	
Carbon disulfide	ug/L	50	48.0	96	65-132	
Carbon tetrachloride	ug/L	50	49.2	98	75-148	
Chlorobenzene	ug/L	50	51.9	104	75-125	
Chloroethane	ug/L	50	50.5	101	66-142	
Chloroform	ug/L	50	51.9	104	75-131	
Chloromethane	ug/L	50	45.1	90	52-147	
Chloroprene	ug/L	50	48.9	98	71-147	
cis-1,2-Dichloroethene	ug/L	50	50.1	100	75-126	
cis-1,3-Dichloropropene	ug/L	50	51.7	103	69-150	
Dibromochloromethane	ug/L	50	53.9	108	73-138	
Dibromomethane	ug/L	50	51.6	103	75-127	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10158016

LABORATORY CONTROL SAMPLE: 981983

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dichlorodifluoromethane	ug/L	50	42.5	85	50-150	
Dichlorofluoromethane	ug/L	50	49.7	99	75-129	
Diethyl ether (Ethyl ether)	ug/L	50	51.8	104	75-126	
Ethylbenzene	ug/L	50	51.8	104	75-132	
Hexachloro-1,3-butadiene	ug/L	25	26.7	107	75-129	
Iodomethane	ug/L	50	47.6	95	73-150	
Isopropylbenzene (Cumene)	ug/L	50	52.7	105	75-142	
m&p-Xylene	ug/L	100	103	103	75-131	
Methyl-tert-butyl ether	ug/L	50	52.6	105	75-130	
Methylene Chloride	ug/L	50	38.9	78	71-125	
n-Butylbenzene	ug/L	50	54.8	110	70-148	
n-Propylbenzene	ug/L	50	53.6	107	75-136	
Naphthalene	ug/L	50	54.8	110	69-145	
o-Xylene	ug/L	50	52.4	105	75-129	
p-Isopropyltoluene	ug/L	50	54.4	109	75-132	
sec-Butylbenzene	ug/L	50	54.2	108	75-136	
Styrene	ug/L	50	52.8	106	75-125	
tert-Butylbenzene	ug/L	50	52.6	105	75-135	
Tetrachloroethene	ug/L	50	50.6	101	75-125	
Tetrahydrofuran	ug/L	500	497	99	63-144	
Toluene	ug/L	50	51.2	102	75-125	
trans-1,2-Dichloroethene	ug/L	50	49.0	98	72-135	
trans-1,3-Dichloropropene	ug/L	50	53.0	106	62-150	
Trichloroethene	ug/L	50	49.9	100	75-125	
Trichlorofluoromethane	ug/L	50	46.8	94	67-150	
Vinyl acetate	ug/L	50	53.1	106	55-150	
Vinyl chloride	ug/L	50	50.4	101	63-147	
Xylene (Total)	ug/L	150	156	104	75-130	
1,2-Dichloroethane-d4 (S)	%			97	75-125	
4-Bromofluorobenzene (S)	%			100	75-125	
Dibromofluoromethane (S)	%			98	75-125	
Toluene-d8 (S)	%			101	75-125	

MATRIX SPIKE SAMPLE: 981984

Parameter	Units	10158085001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	50	54.3	109	70-136	
1,1,1-Trichloroethane	ug/L	ND	50	54.6	109	68-150	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	52.1	104	75-125	
1,1,2-Trichloroethane	ug/L	ND	50	55.7	111	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	64.3	129	75-150	
1,1-Dichloroethane	ug/L	ND	50	54.5	109	67-143	
1,1-Dichloroethene	ug/L	ND	50	55.8	112	75-147	
1,1-Dichloropropene	ug/L	ND	50	55.5	111	75-141	
1,2,3-Trichlorobenzene	ug/L	ND	50	55.1	110	71-141	
1,2,3-Trichloropropane	ug/L	ND	50	51.4	103	75-128	
1,2,4-Trichlorobenzene	ug/L	ND	50	55.9	112	61-148	

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10158016

MATRIX SPIKE SAMPLE:		981984						
Parameter	Units	10158085001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers	
1,2,4-Trimethylbenzene	ug/L	ND	50	55.0	110	65-145		
1,2-Dibromo-3-chloropropane	ug/L	ND	50	51.3	103	64-135		
1,2-Dibromoethane (EDB)	ug/L	ND	50	55.0	110	75-126		
1,2-Dichlorobenzene	ug/L	ND	50	54.9	110	75-127		
1,2-Dichloroethane	ug/L	ND	50	53.4	107	70-138		
1,2-Dichloropropane	ug/L	ND	50	54.2	108	75-130		
1,3,5-Trimethylbenzene	ug/L	ND	50	55.1	110	61-150		
1,3-Dichlorobenzene	ug/L	ND	50	54.4	109	75-126		
1,3-Dichloropropane	ug/L	ND	50	54.8	110	75-125		
1,4-Dichlorobenzene	ug/L	ND	50	53.8	108	75-125		
2,2-Dichloropropane	ug/L	ND	50	53.6	107	50-150		
2-Butanone (MEK)	ug/L	ND	50	46.4	93	50-141		
2-Chloroethylvinyl ether	ug/L	ND	125	ND	.5	50-150	M1	
2-Chlorotoluene	ug/L	ND	50	55.1	110	75-137		
2-Hexanone	ug/L	ND	50	49.8	100	66-135		
2-Methylnaphthalene	ug/L	ND	25	27.6	111	62-150		
4-Chlorotoluene	ug/L	ND	50	55.1	110	70-144		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	51.4	103	62-142		
Acetone	ug/L	ND	125	105	84	50-150		
Acrolein	ug/L	ND	500	465	93	50-150		
Acrylonitrile	ug/L	ND	500	484	97	70-135		
Allyl chloride	ug/L	ND	50	54.3	109	50-150		
Benzene	ug/L	ND	50	53.8	108	75-125		
Bromobenzene	ug/L	ND	50	54.1	108	75-125		
Bromochloromethane	ug/L	ND	50	57.4	115	73-137		
Bromodichloromethane	ug/L	ND	50	53.4	107	70-142		
Bromoform	ug/L	ND	50	53.5	107	55-135		
Bromomethane	ug/L	ND	50	57.9	116	50-150		
Carbon disulfide	ug/L	ND	50	54.9	110	50-150		
Carbon tetrachloride	ug/L	ND	50	56.2	112	64-150		
Chlorobenzene	ug/L	ND	50	54.8	110	75-125		
Chloroethane	ug/L	ND	50	56.7	113	59-150		
Chloroform	ug/L	ND	50	52.6	105	75-132		
Chloromethane	ug/L	ND	50	49.8	100	52-150		
Chloroprene	ug/L	ND	50	55.0	110	54-150		
cis-1,2-Dichloroethene	ug/L	10.2	50	63.4	106	64-144		
cis-1,3-Dichloropropene	ug/L	ND	50	53.0	106	56-150		
Dibromochloromethane	ug/L	ND	50	55.3	111	60-138		
Dibromomethane	ug/L	ND	50	52.2	104	75-127		
Dichlorodifluoromethane	ug/L	ND	50	67.6	135	50-150		
Dichlorofluoromethane	ug/L	ND	50	54.4	109	74-142		
Diethyl ether (Ethyl ether)	ug/L	ND	50	53.7	107	75-127		
Ethylbenzene	ug/L	ND	50	55.6	111	75-134		
Hexachloro-1,3-butadiene	ug/L	ND	25	28.9	116	63-150		
Iodomethane	ug/L	ND	50	44.9	90	50-150		
Isopropylbenzene (Cumene)	ug/L	ND	50	56.5	113	69-147		
m&p-Xylene	ug/L	ND	100	110	110	75-133		
Methyl-tert-butyl ether	ug/L	ND	50	51.8	104	73-131		

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10158016

MATRIX SPIKE SAMPLE: 981984		10158085001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Methylene Chloride	ug/L	ND	50	40.3	81	68-126	
n-Butylbenzene	ug/L	ND	50	56.7	113	59-150	
n-Propylbenzene	ug/L	ND	50	56.6	113	72-143	
Naphthalene	ug/L	ND	50	54.2	108	57-148	
o-Xylene	ug/L	ND	50	55.2	110	75-131	
p-Isopropyltoluene	ug/L	ND	50	56.7	113	75-137	
sec-Butylbenzene	ug/L	ND	50	56.7	113	75-144	
Styrene	ug/L	ND	50	55.2	110	75-134	
tert-Butylbenzene	ug/L	ND	50	55.3	111	68-150	
Tetrachloroethene	ug/L	ND	50	55.7	111	75-130	
Tetrahydrofuran	ug/L	ND	500	475	95	60-148	
Toluene	ug/L	ND	50	54.6	109	75-125	
trans-1,2-Dichloroethene	ug/L	ND	50	55.6	110	75-145	
trans-1,3-Dichloropropene	ug/L	ND	50	54.3	109	50-150	
Trichloroethene	ug/L	25.9	50	81.3	111	73-132	
Trichlorofluoromethane	ug/L	ND	50	62.1	124	67-150	
Vinyl acetate	ug/L	ND	50	52.3	105	50-150	
Vinyl chloride	ug/L	1.1	50	61.6	121	63-150	
Xylene (Total)	ug/L	ND	150	165	110	72-138	
1,2-Dichloroethane-d4 (S)	%				99	75-125	
4-Bromofluorobenzene (S)	%				100	75-125	
Dibromofluoromethane (S)	%				99	75-125	
Toluene-d8 (S)	%				103	75-125	

SAMPLE DUPLICATE: 981985

Parameter	Units	10158085002	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
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: CRC City of Rochester

Pace Project No.: 10158016

SAMPLE DUPLICATE: 981985

Parameter	Units	10158085002 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	8.3	8.1	3	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: CRC City of Rochester

Pace Project No.: 10158016

SAMPLE DUPLICATE: 981985

Parameter	Units	10158085002 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	.37J		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	8.6	8.6	.3	30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl acetate	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	.36J		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	107	106	.8		
4-Bromofluorobenzene (S)	%	99	101	1		
Dibromofluoromethane (S)	%	103	102	1		
Toluene-d8 (S)	%	103	103	.5		

QUALIFIERS

Project: CRC City of Rochester

Pace Project No.: 10158016

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.

SG - Silica Gel - Clean-Up

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC City of Rochester

Pace Project No.: 10158016

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10158016001	AS-Influent	EPA 624	MSV/17003		
10158016002	AS-Effluent	EPA 624	MSV/17003		



CHAIN-OF-CUSTODY / Analytical Request Document

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

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, Fax: 952-887-9605 ext 205
 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: Carolyne Trout
 Pace Profile #:

ITEM #	Section D Required Client Information SAMPLE ID One Character per box. (A-Z, 0-9 / -) Samples IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX DRINKING WATER WATER WASTEWATER PRODUCT SOLID OIL SLURRY AIR OTHER TISSUE	CODE DW WT WW PW SL OL WP AT OT TS	MATRIX CODE	SAMPLE TYPE	G-RAB C-COMP	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other	Requested Analyte	Filtered (Y/N)	Pace Project Number Lab ID.
							COMPOSITE START	COMPOSITE END/GRAB						
	DATE	TIME	DATE	TIME										
1	A S - I n f l u e n t				W G			5/19/11	15:00		3			
2	A S - E f f l u e n t				W G			5/19/11	15:15		3			
3														
4														
5														
6														
7														
8														

Additional Comments:

RELINQUISHED BY / AFFILIATION: [Signature] DATE: 5-20-11 TIME: 10:56 AM

ACCEPTED BY / AFFILIATION: [Signature] DATE: 5-20-11 TIME: 10:56 AM

SAMPLE CONDITIONS: Received on ice Y/N, Custody Sealed Cooler Y/N, Samples Intact Y/N

Temp in °C: 5.8

SAMPLER NAME AND SIGNATURE: [Signature]
 PRINT Name of SAMPLER: [Name]
 SIGNATURE of SAMPLER: [Signature] DATE Signed (MM/DD/YY):

1174 10/5/06
 10/5/00
 10/5/00



Sample Condition Upon Receipt

10158066

Client Name: Landmark

Project # 10158009

5/20/11 MS

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: _____

Optional:
Proj. ID# 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 of 179425 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 5.8 Biological Tissue is Frozen: Yes No Date and Initials of person examining contents: 5-20-11

Temp should be above freezing to 6°C Comments:

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

Date: 5/23/11

May 03, 2011

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

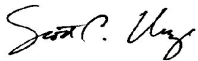
RE: Project: CRC City of Rochester
Pace Project No.: 10155422

Dear Mr. Skramstad:

Enclosed are the analytical results for sample(s) received by the laboratory on April 25, 2011. 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,



Scott Unze for
Carolynne Trout
carolynne.trout@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 13

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CERTIFICATIONS

Project: CRC City of Rochester

Pace Project No.: 10155422

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

EPA Region 8 Certification #: Pace

Florida/NELAP Certification #: E87605

Georgia Certification #: 959

Idaho Certification #: MN00064

Illinois Certification #: 200011

Iowa Certification #: 368

Kansas Certification #: E-10167

Louisiana Certification #: 03086

Louisiana Certification #: LA080009

Maine Certification #: 2007029

Maryland Certification #: 322

Michigan DEQ Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT CERT0092

Nevada Certification #: MN_00064

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New Mexico Certification #: Pace

New York Certification #: 11647

North Carolina Certification #: 530

North Dakota Certification #: R-036

North Dakota Certification #: R-036A

Ohio VAP Certification #: CL101

Oklahoma Certification #: D9921

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Tennessee Certification #: 02818

Texas Certification #: T104704192

Washington Certification #: C754

Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: CRC City of Rochester

Pace Project No.: 10155422

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10155422001	DPE-EXHAUST-0514	Air	04/22/11 15:52	04/25/11 10:53
10155422002	1244	Air		04/25/11 10:53

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: CRC City of Rochester

Pace Project No.: 10155422

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10155422001	DPE-EXHAUST-0514	TO-15	DR1	61

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10155422

Sample: DPE-EXHAUST-0514	Lab ID: 10155422001	Collected: 04/22/11 15:52	Received: 04/25/11 10:53	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	88.4	ug/m3	15.9	33.2		04/28/11 21:57	67-64-1	
Benzene	ND	ug/m3	21.6	33.2		04/28/11 21:57	71-43-2	
Benzyl chloride	ND	ug/m3	34.9	33.2		04/28/11 21:57	100-44-7	
Bromodichloromethane	ND	ug/m3	46.5	33.2		04/28/11 21:57	75-27-4	
Bromoform	ND	ug/m3	69.7	33.2		04/28/11 21:57	75-25-2	
Bromomethane	ND	ug/m3	26.2	33.2		04/28/11 21:57	74-83-9	
1,3-Butadiene	ND	ug/m3	14.9	33.2		04/28/11 21:57	106-99-0	
2-Butanone (MEK)	ND	ug/m3	19.9	33.2		04/28/11 21:57	78-93-3	
Carbon disulfide	ND	ug/m3	20.9	33.2		04/28/11 21:57	75-15-0	
Carbon tetrachloride	ND	ug/m3	43.2	33.2		04/28/11 21:57	56-23-5	
Chlorobenzene	ND	ug/m3	31.2	33.2		04/28/11 21:57	108-90-7	
Chloroethane	ND	ug/m3	17.9	33.2		04/28/11 21:57	75-00-3	
Chloroform	ND	ug/m3	32.9	33.2		04/28/11 21:57	67-66-3	
Chloromethane	ND	ug/m3	13.9	33.2		04/28/11 21:57	74-87-3	
Cyclohexane	ND	ug/m3	22.6	33.2		04/28/11 21:57	110-82-7	
Dibromochloromethane	ND	ug/m3	56.4	33.2		04/28/11 21:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	53.1	33.2		04/28/11 21:57	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	39.8	33.2		04/28/11 21:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	39.8	33.2		04/28/11 21:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	39.8	33.2		04/28/11 21:57	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	33.2	33.2		04/28/11 21:57	75-71-8	
1,1-Dichloroethane	ND	ug/m3	27.2	33.2		04/28/11 21:57	75-34-3	
1,2-Dichloroethane	ND	ug/m3	27.2	33.2		04/28/11 21:57	107-06-2	
1,1-Dichloroethene	ND	ug/m3	26.9	33.2		04/28/11 21:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	26.9	33.2		04/28/11 21:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	26.9	33.2		04/28/11 21:57	156-60-5	
1,2-Dichloropropane	ND	ug/m3	31.2	33.2		04/28/11 21:57	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	30.5	33.2		04/28/11 21:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	30.5	33.2		04/28/11 21:57	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	46.5	33.2		04/28/11 21:57	76-14-2	
Ethanol	137	ug/m3	63.1	33.2		04/28/11 21:57	64-17-5	SS
Ethyl acetate	ND	ug/m3	24.2	33.2		04/28/11 21:57	141-78-6	
Ethylbenzene	ND	ug/m3	29.2	33.2		04/28/11 21:57	100-41-4	
4-Ethyltoluene	ND	ug/m3	83.0	33.2		04/28/11 21:57	622-96-8	
n-Heptane	ND	ug/m3	27.6	33.2		04/28/11 21:57	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	73.0	33.2		04/28/11 21:57	87-68-3	
n-Hexane	ND	ug/m3	23.9	33.2		04/28/11 21:57	110-54-3	
2-Hexanone	ND	ug/m3	27.6	33.2		04/28/11 21:57	591-78-6	
Methylene Chloride	ND	ug/m3	23.6	33.2		04/28/11 21:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	27.6	33.2		04/28/11 21:57	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	24.2	33.2		04/28/11 21:57	1634-04-4	
Naphthalene	ND	ug/m3	89.6	33.2		04/28/11 21:57	91-20-3	
2-Propanol	ND	ug/m3	83.0	33.2		04/28/11 21:57	67-63-0	
Propylene	ND	ug/m3	11.6	33.2		04/28/11 21:57	115-07-1	
Styrene	ND	ug/m3	28.9	33.2		04/28/11 21:57	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	46.5	33.2		04/28/11 21:57	79-34-5	
Tetrachloroethene	6840	ug/m3	46.5	33.2		04/28/11 21:57	127-18-4	

Date: 05/03/2011 03:35 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10155422

Sample: DPE-EXHAUST-0514		Lab ID: 10155422001	Collected: 04/22/11 15:52	Received: 04/25/11 10:53	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR		Analytical Method: TO-15							
Tetrahydrofuran	ND	ug/m3	19.9	33.2		04/28/11 21:57	109-99-9		
Toluene	ND	ug/m3	25.6	33.2		04/28/11 21:57	108-88-3		
1,2,4-Trichlorobenzene	ND	ug/m3	32.9	33.2		04/28/11 21:57	120-82-1		
1,1,1-Trichloroethane	ND	ug/m3	36.5	33.2		04/28/11 21:57	71-55-6		
1,1,2-Trichloroethane	ND	ug/m3	36.5	33.2		04/28/11 21:57	79-00-5		
Trichloroethene	ND	ug/m3	36.5	33.2		04/28/11 21:57	79-01-6		
Trichlorofluoromethane	ND	ug/m3	36.5	33.2		04/28/11 21:57	75-69-4		
1,1,2-Trichlorotrifluoroethane	22600	ug/m3	425	265.6		04/29/11 12:59	76-13-1	A3	
1,2,4-Trimethylbenzene	ND	ug/m3	33.2	33.2		04/28/11 21:57	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/m3	33.2	33.2		04/28/11 21:57	108-67-8		
Vinyl acetate	ND	ug/m3	23.6	33.2		04/28/11 21:57	108-05-4		
Vinyl chloride	ND	ug/m3	17.3	33.2		04/28/11 21:57	75-01-4		
m&p-Xylene	ND	ug/m3	58.4	33.2		04/28/11 21:57	179601-23-1		
o-Xylene	ND	ug/m3	29.2	33.2		04/28/11 21:57	95-47-6		

QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10155422

QC Batch: AIR/12194 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10155422001

METHOD BLANK: 967320 Matrix: Air
Associated Lab Samples: 10155422001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	04/28/11 10:07	
1,1,2,2-Tetrachloroethane	ug/m3	ND	1.4	04/28/11 10:07	
1,1,2-Trichloroethane	ug/m3	ND	1.1	04/28/11 10:07	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	04/28/11 10:07	
1,1-Dichloroethane	ug/m3	ND	0.82	04/28/11 10:07	
1,1-Dichloroethene	ug/m3	ND	0.81	04/28/11 10:07	
1,2,4-Trichlorobenzene	ug/m3	ND	0.99	04/28/11 10:07	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	04/28/11 10:07	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	04/28/11 10:07	
1,2-Dichlorobenzene	ug/m3	ND	1.2	04/28/11 10:07	
1,2-Dichloroethane	ug/m3	ND	0.82	04/28/11 10:07	
1,2-Dichloropropane	ug/m3	ND	0.94	04/28/11 10:07	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	04/28/11 10:07	
1,3-Butadiene	ug/m3	ND	0.45	04/28/11 10:07	
1,3-Dichlorobenzene	ug/m3	ND	1.2	04/28/11 10:07	
1,4-Dichlorobenzene	ug/m3	ND	1.2	04/28/11 10:07	
2-Butanone (MEK)	ug/m3	ND	0.60	04/28/11 10:07	
2-Hexanone	ug/m3	ND	0.83	04/28/11 10:07	
2-Propanol	ug/m3	ND	2.5	04/28/11 10:07	
4-Ethyltoluene	ug/m3	ND	2.5	04/28/11 10:07	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	0.83	04/28/11 10:07	
Acetone	ug/m3	ND	0.48	04/28/11 10:07	
Benzene	ug/m3	ND	0.65	04/28/11 10:07	
Benzyl chloride	ug/m3	ND	1.0	04/28/11 10:07	
Bromodichloromethane	ug/m3	ND	1.4	04/28/11 10:07	
Bromoform	ug/m3	ND	2.1	04/28/11 10:07	
Bromomethane	ug/m3	ND	0.79	04/28/11 10:07	
Carbon disulfide	ug/m3	ND	0.63	04/28/11 10:07	
Carbon tetrachloride	ug/m3	ND	1.3	04/28/11 10:07	
Chlorobenzene	ug/m3	ND	0.94	04/28/11 10:07	
Chloroethane	ug/m3	ND	0.54	04/28/11 10:07	
Chloroform	ug/m3	ND	0.99	04/28/11 10:07	
Chloromethane	ug/m3	ND	0.42	04/28/11 10:07	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	04/28/11 10:07	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	04/28/11 10:07	
Cyclohexane	ug/m3	ND	0.68	04/28/11 10:07	
Dibromochloromethane	ug/m3	ND	1.7	04/28/11 10:07	
Dichlorodifluoromethane	ug/m3	ND	1.0	04/28/11 10:07	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	04/28/11 10:07	
Ethanol	ug/m3	ND	1.9	04/28/11 10:07	
Ethyl acetate	ug/m3	ND	0.73	04/28/11 10:07	
Ethylbenzene	ug/m3	ND	0.88	04/28/11 10:07	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	04/28/11 10:07	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10155422

METHOD BLANK: 967320

Matrix: Air

Associated Lab Samples: 10155422001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/m3	ND	1.8	04/28/11 10:07	
Methyl-tert-butyl ether	ug/m3	ND	0.73	04/28/11 10:07	
Methylene Chloride	ug/m3	ND	0.71	04/28/11 10:07	
n-Heptane	ug/m3	ND	0.83	04/28/11 10:07	
n-Hexane	ug/m3	ND	0.72	04/28/11 10:07	
Naphthalene	ug/m3	ND	2.7	04/28/11 10:07	
o-Xylene	ug/m3	ND	0.88	04/28/11 10:07	
Propylene	ug/m3	ND	0.35	04/28/11 10:07	
Styrene	ug/m3	ND	0.87	04/28/11 10:07	
Tetrachloroethene	ug/m3	ND	1.4	04/28/11 10:07	
Tetrahydrofuran	ug/m3	ND	0.60	04/28/11 10:07	
Toluene	ug/m3	ND	0.77	04/28/11 10:07	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	04/28/11 10:07	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	04/28/11 10:07	
Trichloroethene	ug/m3	ND	1.1	04/28/11 10:07	
Trichlorofluoromethane	ug/m3	ND	1.1	04/28/11 10:07	
Vinyl acetate	ug/m3	ND	0.71	04/28/11 10:07	
Vinyl chloride	ug/m3	ND	0.52	04/28/11 10:07	

LABORATORY CONTROL SAMPLE: 967321

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	59.6	107	66-133	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	75.5	108	70-140	
1,1,2-Trichloroethane	ug/m3	55.5	60.5	109	68-132	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	85.0	109	60-137	
1,1-Dichloroethane	ug/m3	41.2	44.6	108	65-131	
1,1-Dichloroethene	ug/m3	40.3	43.5	108	65-132	
1,2,4-Trichlorobenzene	ug/m3	75.5	81.8	108	30-150	
1,2,4-Trimethylbenzene	ug/m3	50	51.8	104	69-140	
1,2-Dibromoethane (EDB)	ug/m3	78.1	84.9	109	71-139	
1,2-Dichlorobenzene	ug/m3	61.2	61.6	101	68-139	
1,2-Dichloroethane	ug/m3	41.2	46.9	114	66-132	
1,2-Dichloropropane	ug/m3	47	53.3	113	69-130	
1,3,5-Trimethylbenzene	ug/m3	50	52.5	105	70-141	
1,3-Butadiene	ug/m3	22.5	26.1	116	68-128	
1,3-Dichlorobenzene	ug/m3	61.2	64.2	105	66-146	
1,4-Dichlorobenzene	ug/m3	61.2	60.4	99	66-142	
2-Butanone (MEK)	ug/m3	30	34.7	116	68-134	
2-Hexanone	ug/m3	41.7	46.4	111	70-144	
2-Propanol	ug/m3	23.8	27.6	116	66-139	
4-Ethyltoluene	ug/m3	50	46.6	93	65-145	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	47.3	114	70-139	
Acetone	ug/m3	24.2	25.1	104	56-142	
Benzene	ug/m3	32.5	35.1	108	69-129	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10155422

LABORATORY CONTROL SAMPLE: 967321

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzyl chloride	ug/m3	52.5	56.5	108	68-138	
Bromodichloromethane	ug/m3	68.2	73.5	108	70-130	
Bromoform	ug/m3	105	108	102	67-147	
Bromomethane	ug/m3	39.5	43.1	109	67-127	SS
Carbon disulfide	ug/m3	31.7	31.3	99	65-131	
Carbon tetrachloride	ug/m3	64	59.0	92	62-137	
Chlorobenzene	ug/m3	46.8	51.8	111	72-133	
Chloroethane	ug/m3	26.8	29.5	110	66-127	
Chloroform	ug/m3	49.7	56.7	114	67-130	
Chloromethane	ug/m3	21	24.2	115	63-127	
cis-1,2-Dichloroethene	ug/m3	40.3	45.3	112	69-130	
cis-1,3-Dichloropropene	ug/m3	46.2	51.8	112	74-137	
Cyclohexane	ug/m3	35	41.0	117	69-137	
Dibromochloromethane	ug/m3	86.6	88.5	102	69-140	
Dichlorodifluoromethane	ug/m3	50.3	53.2	106	62-131	
Dichlorotetrafluoroethane	ug/m3	71.1	78.6	111	63-130	
Ethanol	ug/m3	19.2	21.4	111	63-135	SS
Ethyl acetate	ug/m3	36.6	43.2	118	70-135	
Ethylbenzene	ug/m3	44.2	48.2	109	71-141	
Hexachloro-1,3-butadiene	ug/m3	108	127	117	30-150	
m&p-Xylene	ug/m3	88.3	84.4	96	68-144	
Methyl-tert-butyl ether	ug/m3	36.7	43.1	118	54-136	
Methylene Chloride	ug/m3	35.3	36.3	103	56-143	
n-Heptane	ug/m3	41.7	48.9	117	72-130	
n-Hexane	ug/m3	35.8	42.5	119	68-130	
Naphthalene	ug/m3	53.3	55.0	103	30-150	
o-Xylene	ug/m3	44.2	47.7	108	70-141	
Propylene	ug/m3	17.5	27.4	156	61-139	CH,L1
Styrene	ug/m3	43.3	47.5	110	68-145	
Tetrachloroethene	ug/m3	69	75.9	110	64-142	
Tetrahydrofuran	ug/m3	30	34.3	114	70-134	SS
Toluene	ug/m3	38.3	44.9	117	69-133	
trans-1,2-Dichloroethene	ug/m3	40.3	42.8	106	64-132	
trans-1,3-Dichloropropene	ug/m3	46.2	51.8	112	71-140	
Trichloroethene	ug/m3	54.6	58.8	108	68-132	
Trichlorofluoromethane	ug/m3	57.1	54.9	96	59-136	
Vinyl acetate	ug/m3	35.8	40.1	112	70-142	
Vinyl chloride	ug/m3	26	30.3	116	64-129	

SAMPLE DUPLICATE: 967921

Parameter	Units	10154639002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND		30	
1,1,2-Trichloroethane	ug/m3	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND		30	
1,1-Dichloroethane	ug/m3	ND	ND		30	

Date: 05/03/2011 03:35 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10155422

SAMPLE DUPLICATE: 967921

Parameter	Units	10154639002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1-Dichloroethene	ug/m3	ND	ND		30	
1,2,4-Trichlorobenzene	ug/m3	ND	ND		30	
1,2,4-Trimethylbenzene	ug/m3	8.8	9.0	2	30	
1,2-Dibromoethane (EDB)	ug/m3	ND	ND		30	
1,2-Dichlorobenzene	ug/m3	ND	ND		30	
1,2-Dichloroethane	ug/m3	ND	ND		30	
1,2-Dichloropropane	ug/m3	ND	ND		30	
1,3,5-Trimethylbenzene	ug/m3	2.1	2.1	2	30	
1,3-Butadiene	ug/m3	ND	ND		30	
1,3-Dichlorobenzene	ug/m3	ND	ND		30	
1,4-Dichlorobenzene	ug/m3	ND	ND		30	
2-Butanone (MEK)	ug/m3	12.4	12.2	2	30	
2-Hexanone	ug/m3	ND	ND		30	
2-Propanol	ug/m3	12.4	14.5	15	30	
4-Ethyltoluene	ug/m3	ND	2.4J		30	
4-Methyl-2-pentanone (MIBK)	ug/m3	3.2	2.9	7	30	
Acetone	ug/m3	89.6	91.1	2	30	
Benzene	ug/m3	2.2	2.3	4	30	
Benzyl chloride	ug/m3	ND	ND		30	
Bromodichloromethane	ug/m3	ND	ND		30	
Bromoform	ug/m3	ND	ND		30	
Bromomethane	ug/m3	ND	ND		30	
Carbon disulfide	ug/m3	2.5	2.7	4	30	
Carbon tetrachloride	ug/m3	ND	1.5J		30	
Chlorobenzene	ug/m3	ND	ND		30	
Chloroethane	ug/m3	1.1	ND		30	
Chloroform	ug/m3	ND	ND		30	
Chloromethane	ug/m3	ND	ND		30	
cis-1,2-Dichloroethene	ug/m3	2.8	2.8	2	30	
cis-1,3-Dichloropropene	ug/m3	ND	ND		30	
Cyclohexane	ug/m3	2.7	ND		30	
Dibromochloromethane	ug/m3	ND	ND		30	
Dichlorodifluoromethane	ug/m3	44.0	34.7	24	30	
Dichlorotetrafluoroethane	ug/m3	ND	ND		30	
Ethanol	ug/m3	8.0	10.0	22	30	SS
Ethyl acetate	ug/m3	ND	ND		30	
Ethylbenzene	ug/m3	7.7	8.0	4	30	
Hexachloro-1,3-butadiene	ug/m3	ND	ND		30	
m&p-Xylene	ug/m3	10.4	11.0	6	30	
Methyl-tert-butyl ether	ug/m3	ND	ND		30	
Methylene Chloride	ug/m3	39.4	35.6	10	30	
n-Heptane	ug/m3	ND	1.4		30	
n-Hexane	ug/m3	15.6	12.0	26	30	
Naphthalene	ug/m3	13.5	13.3	1	30	
o-Xylene	ug/m3	3.8	4.0	4	30	
Propylene	ug/m3	22.0	ND		30	
Styrene	ug/m3	ND	ND		30	
Tetrachloroethene	ug/m3	ND	ND		30	

Date: 05/03/2011 03:35 PM

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10155422

SAMPLE DUPLICATE: 967921

Parameter	Units	10154639002 Result	Dup Result	RPD	Max RPD	Qualifiers
Tetrahydrofuran	ug/m3	ND	ND		30	
Toluene	ug/m3	10.6	11.7	10	30	
trans-1,2-Dichloroethene	ug/m3	ND	ND		30	
trans-1,3-Dichloropropene	ug/m3	ND	ND		30	
Trichloroethene	ug/m3	ND	ND		30	
Trichlorofluoromethane	ug/m3	ND	1.7J		30	
Vinyl acetate	ug/m3	ND	ND		30	
Vinyl chloride	ug/m3	ND	ND		30	

QUALIFIERS

Project: CRC City of Rochester

Pace Project No.: 10155422

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.

SG - Silica Gel - Clean-Up

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

ANALYTE QUALIFIERS

A3 The sample was analyzed by serial dilution.

CH The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.

SS This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC City of Rochester

Pace Project No.: 10155422

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10155422001	DPE-EXHAUST-0514	TO-15	AIR/12194		

CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10 ISS422

Page: 1 of 1

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, Fax: 952-887-9605 ext 205 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: Carolyne Trout Pace Profile #:	
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--

ITEM #	Section D Required Client Information		Valid Matrix Codes	MATRIX	CODE	SAMPLE ID	One Character per box (A-Z, 0-9, /, -) Samples IDs MUST BE UNIQUE	COLLECTED		# OF CONTAINERS	PRESERVATIVES	Filtered (Y/N)	Requested Analyte	Pace Project Number Lab ID:
	MATRIX	DRINKING WATER WASTE WATER PRODUCT LIQUID WIPE AIR TISSE						COMPOSITE START	COMPOSITE END GRAB					
1	D	P	E	-	E	X	H	A	U	S	T	-		055319001
2														
3														
4														
5														
6														
7														
8														

Additional Comments: RELINQUISHED BY / AFFILIATION DATE TIME ACCEPTED BY / AFFILIATION DATE TIME SAMPLE CONDITIONS

RELINQUISHED BY / AFFILIATION: *Eric Gabrielson* DATE: 4/22/11 TIME: 9:10

ACCEPTED BY / AFFILIATION: *Jason Skramstad* DATE: 4/25/11 TIME: 0553 AM

SAMPLE CONDITIONS: Received on ice Y/N, Sealed Cooler Y/N, Custody Y/N, Samples Intact Y/N

SAMPLER NAME AND SIGNATURE: *Eric Gabrielson*
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER:
DATE Signed: 4/21/11



AIR Sample Condition Upon Receipt

Client Name: LANDMARK Project # 10155422

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
To: Date
To: Name

Tracking #: _____

Date and Initials of person examining contents: 4-25-11 JK

Comments:

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

Samples Received: 2 CANS, 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
<u>DPE-EXHAUST</u>	<u>0514</u>		<u>FC0224</u>				
	<u>1244</u>						

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: JK Date: 4/25/11

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)

May 03, 2011

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

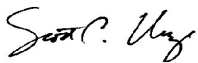
RE: Project: CRC - CITY OF ROCHESTER
Pace Project No.: 10155421

Dear Mr. Skramstad:

Enclosed are the analytical results for sample(s) received by the laboratory on April 25, 2011. 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,



Scott Unze for
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.: 10155421

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

EPA Region 8 Certification #: Pace

Florida/NELAP Certification #: E87605

Georgia Certification #: 959

Idaho Certification #: MN00064

Illinois Certification #: 200011

Iowa Certification #: 368

Kansas Certification #: E-10167

Louisiana Certification #: 03086

Louisiana Certification #: LA080009

Maine Certification #: 2007029

Maryland Certification #: 322

Michigan DEQ Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT CERT0092

Nevada Certification #: MN_00064

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New Mexico Certification #: Pace

New York Certification #: 11647

North Carolina Certification #: 530

North Dakota Certification #: R-036

North Dakota Certification #: R-036A

Ohio VAP Certification #: CL101

Oklahoma Certification #: D9921

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Tennessee Certification #: 02818

Texas Certification #: T104704192

Washington Certification #: C754

Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: CRC - CITY OF ROCHESTER

Pace Project No.: 10155421

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10155421001	AS - INFLUENT	Water	04/22/11 09:25	04/25/11 10:53
10155421002	AS - EFFLUENT	Water	04/22/11 09:30	04/25/11 10:53
10155421003	TRIP BLANK	Water		04/25/11 10:53

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SAMPLE ANALYTE COUNT

Project: CRC - CITY OF ROCHESTER

Pace Project No.: 10155421

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10155421001	AS - INFLUENT	EPA 624	DJT	82
10155421002	AS - EFFLUENT	EPA 624	DJT	82
10155421003	TRIP BLANK	EPA 624	DJT	82

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC - CITY OF ROCHESTER

Pace Project No.: 10155421

Sample: AS - INFLUENT		Lab ID: 10155421001	Collected: 04/22/11 09:25	Received: 04/25/11 10:53	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV		Analytical Method: EPA 624						
Acetone	ND	ug/L	25.0	1		04/27/11 18:15	67-64-1	
Acrolein	ND	ug/L	10.0	1		04/27/11 18:15	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1		04/27/11 18:15	107-13-1	
Allyl chloride	ND	ug/L	4.0	1		04/27/11 18:15	107-05-1	
Benzene	ND	ug/L	1.0	1		04/27/11 18:15	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		04/27/11 18:15	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		04/27/11 18:15	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		04/27/11 18:15	75-27-4	
Bromoform	ND	ug/L	4.0	1		04/27/11 18:15	75-25-2	
Bromomethane	ND	ug/L	4.0	1		04/27/11 18:15	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		04/27/11 18:15	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		04/27/11 18:15	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		04/27/11 18:15	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		04/27/11 18:15	98-06-6	
Carbon disulfide	ND	ug/L	1.0	1		04/27/11 18:15	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		04/27/11 18:15	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		04/27/11 18:15	108-90-7	
Chloroethane	ND	ug/L	1.0	1		04/27/11 18:15	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		04/27/11 18:15	110-75-8	
Chloroform	ND	ug/L	1.0	1		04/27/11 18:15	67-66-3	
Chloromethane	ND	ug/L	4.0	1		04/27/11 18:15	74-87-3	
Chloroprene	ND	ug/L	1.0	1		04/27/11 18:15	126-99-8	
2-Chlorotoluene	ND	ug/L	1.0	1		04/27/11 18:15	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		04/27/11 18:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		04/27/11 18:15	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		04/27/11 18:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		04/27/11 18:15	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		04/27/11 18:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		04/27/11 18:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		04/27/11 18:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		04/27/11 18:15	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		04/27/11 18:15	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		04/27/11 18:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		04/27/11 18:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		04/27/11 18:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		04/27/11 18:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	4.0	1		04/27/11 18:15	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		04/27/11 18:15	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		04/27/11 18:15	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		04/27/11 18:15	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		04/27/11 18:15	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		04/27/11 18:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		04/27/11 18:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		04/27/11 18:15	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		04/27/11 18:15	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		04/27/11 18:15	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		04/27/11 18:15	87-68-3	

Date: 05/03/2011 03:37 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC - CITY OF ROCHESTER

Pace Project No.: 10155421

Sample: AS - INFLUENT		Lab ID: 10155421001	Collected: 04/22/11 09:25	Received: 04/25/11 10:53	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		04/27/11 18:15	591-78-6		
Iodomethane	ND ug/L		4.0	1		04/27/11 18:15	74-88-4		
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		04/27/11 18:15	98-82-8		
p-Isopropyltoluene	ND ug/L		1.0	1		04/27/11 18:15	99-87-6		
Methylene Chloride	ND ug/L		4.0	1		04/27/11 18:15	75-09-2		
2-Methylnaphthalene	ND ug/L		5.0	1		04/27/11 18:15	91-57-6		
4-Methyl-2-pentanone (MIBK)	ND ug/L		4.0	1		04/27/11 18:15	108-10-1		
Methyl-tert-butyl ether	ND ug/L		1.0	1		04/27/11 18:15	1634-04-4		
Naphthalene	ND ug/L		4.0	1		04/27/11 18:15	91-20-3		
n-Propylbenzene	ND ug/L		1.0	1		04/27/11 18:15	103-65-1		
Styrene	ND ug/L		1.0	1		04/27/11 18:15	100-42-5		
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		04/27/11 18:15	630-20-6		
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		04/27/11 18:15	79-34-5		
Tetrachloroethene	41.3 ug/L		1.0	1		04/27/11 18:15	127-18-4		
Tetrahydrofuran	ND ug/L		10.0	1		04/27/11 18:15	109-99-9		
Toluene	ND ug/L		1.0	1		04/27/11 18:15	108-88-3		
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		04/27/11 18:15	87-61-6		
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		04/27/11 18:15	120-82-1		
1,1,1-Trichloroethane	ND ug/L		1.0	1		04/27/11 18:15	71-55-6		
1,1,2-Trichloroethane	ND ug/L		1.0	1		04/27/11 18:15	79-00-5		
Trichloroethene	ND ug/L		1.0	1		04/27/11 18:15	79-01-6		
Trichlorofluoromethane	ND ug/L		1.0	1		04/27/11 18:15	75-69-4		
1,2,3-Trichloropropane	ND ug/L		4.0	1		04/27/11 18:15	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	1		04/27/11 18:15	76-13-1		
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		04/27/11 18:15	95-63-6		
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		04/27/11 18:15	108-67-8		
Vinyl acetate	ND ug/L		10.0	1		04/27/11 18:15	108-05-4		
Vinyl chloride	ND ug/L		0.40	1		04/27/11 18:15	75-01-4		
Xylene (Total)	ND ug/L		3.0	1		04/27/11 18:15	1330-20-7		
m&p-Xylene	ND ug/L		2.0	1		04/27/11 18:15	179601-23-1		
o-Xylene	ND ug/L		1.0	1		04/27/11 18:15	95-47-6		
Dibromofluoromethane (S)	102 %		75-125	1		04/27/11 18:15	1868-53-7		
4-Bromofluorobenzene (S)	95 %		75-125	1		04/27/11 18:15	460-00-4		
Toluene-d8 (S)	93 %		75-125	1		04/27/11 18:15	2037-26-5		
1,2-Dichloroethane-d4 (S)	97 %		75-125	1		04/27/11 18:15	17060-07-0		

Sample: AS - EFFLUENT		Lab ID: 10155421002	Collected: 04/22/11 09:30	Received: 04/25/11 10:53	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
624 MSV		Analytical Method: EPA 624							
Acetone	ND ug/L		25.0	1		04/27/11 17:41	67-64-1		
Acrolein	ND ug/L		10.0	1		04/27/11 17:41	107-02-8		
Acrylonitrile	ND ug/L		10.0	1		04/27/11 17:41	107-13-1		
Allyl chloride	ND ug/L		4.0	1		04/27/11 17:41	107-05-1		
Benzene	ND ug/L		1.0	1		04/27/11 17:41	71-43-2		

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ANALYTICAL RESULTS

Project: CRC - CITY OF ROCHESTER

Pace Project No.: 10155421

Sample: AS - EFFLUENT	Lab ID: 10155421002	Collected: 04/22/11 09:30	Received: 04/25/11 10:53	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		04/27/11 17:41	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		04/27/11 17:41	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		04/27/11 17:41	75-27-4	
Bromoform	ND ug/L		4.0	1		04/27/11 17:41	75-25-2	
Bromomethane	ND ug/L		4.0	1		04/27/11 17:41	74-83-9	
2-Butanone (MEK)	ND ug/L		4.0	1		04/27/11 17:41	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		04/27/11 17:41	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		04/27/11 17:41	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		04/27/11 17:41	98-06-6	
Carbon disulfide	ND ug/L		1.0	1		04/27/11 17:41	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		04/27/11 17:41	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		04/27/11 17:41	108-90-7	
Chloroethane	ND ug/L		1.0	1		04/27/11 17:41	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		10.0	1		04/27/11 17:41	110-75-8	
Chloroform	ND ug/L		1.0	1		04/27/11 17:41	67-66-3	
Chloromethane	ND ug/L		4.0	1		04/27/11 17:41	74-87-3	
Chloroprene	ND ug/L		1.0	1		04/27/11 17:41	126-99-8	
2-Chlorotoluene	ND ug/L		1.0	1		04/27/11 17:41	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		04/27/11 17:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	1		04/27/11 17:41	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		04/27/11 17:41	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		04/27/11 17:41	106-93-4	
Dibromomethane	ND ug/L		4.0	1		04/27/11 17:41	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		04/27/11 17:41	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		04/27/11 17:41	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		04/27/11 17:41	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		04/27/11 17:41	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		04/27/11 17:41	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		04/27/11 17:41	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		04/27/11 17:41	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		04/27/11 17:41	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		4.0	1		04/27/11 17:41	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	1		04/27/11 17:41	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	1		04/27/11 17:41	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		04/27/11 17:41	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	1		04/27/11 17:41	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		04/27/11 17:41	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	1		04/27/11 17:41	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	1		04/27/11 17:41	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	1		04/27/11 17:41	60-29-7	
Ethylbenzene	ND ug/L		1.0	1		04/27/11 17:41	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		04/27/11 17:41	87-68-3	
2-Hexanone	ND ug/L		4.0	1		04/27/11 17:41	591-78-6	
Iodomethane	ND ug/L		4.0	1		04/27/11 17:41	74-88-4	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		04/27/11 17:41	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		04/27/11 17:41	99-87-6	
Methylene Chloride	ND ug/L		4.0	1		04/27/11 17:41	75-09-2	

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ANALYTICAL RESULTS

Project: CRC - CITY OF ROCHESTER

Pace Project No.: 10155421

Sample: AS - EFFLUENT		Lab ID: 10155421002	Collected: 04/22/11 09:30	Received: 04/25/11 10:53	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		04/27/11 17:41	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND ug/L		4.0	1		04/27/11 17:41	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		04/27/11 17:41	1634-04-4	
Naphthalene	ND ug/L		4.0	1		04/27/11 17:41	91-20-3	
n-Propylbenzene	ND ug/L		1.0	1		04/27/11 17:41	103-65-1	
Styrene	ND ug/L		1.0	1		04/27/11 17:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		04/27/11 17:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		04/27/11 17:41	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		04/27/11 17:41	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	1		04/27/11 17:41	109-99-9	
Toluene	ND ug/L		1.0	1		04/27/11 17:41	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		04/27/11 17:41	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		04/27/11 17:41	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		04/27/11 17:41	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		04/27/11 17:41	79-00-5	
Trichloroethene	ND ug/L		1.0	1		04/27/11 17:41	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		04/27/11 17:41	75-69-4	
1,2,3-Trichloropropane	ND ug/L		4.0	1		04/27/11 17:41	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	1		04/27/11 17:41	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		04/27/11 17:41	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		04/27/11 17:41	108-67-8	
Vinyl acetate	ND ug/L		10.0	1		04/27/11 17:41	108-05-4	
Vinyl chloride	ND ug/L		0.40	1		04/27/11 17:41	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		04/27/11 17:41	1330-20-7	
m&p-Xylene	ND ug/L		2.0	1		04/27/11 17:41	179601-23-1	
o-Xylene	ND ug/L		1.0	1		04/27/11 17:41	95-47-6	
Dibromofluoromethane (S)	102 %		75-125	1		04/27/11 17:41	1868-53-7	
4-Bromofluorobenzene (S)	94 %		75-125	1		04/27/11 17:41	460-00-4	
Toluene-d8 (S)	94 %		75-125	1		04/27/11 17:41	2037-26-5	
1,2-Dichloroethane-d4 (S)	100 %		75-125	1		04/27/11 17:41	17060-07-0	

Sample: TRIP BLANK		Lab ID: 10155421003	Collected:	Received: 04/25/11 10:53	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV		Analytical Method: EPA 624						
Acetone	ND ug/L		25.0	1		04/27/11 14:52	67-64-1	
Acrolein	ND ug/L		10.0	1		04/27/11 14:52	107-02-8	
Acrylonitrile	ND ug/L		10.0	1		04/27/11 14:52	107-13-1	
Allyl chloride	ND ug/L		4.0	1		04/27/11 14:52	107-05-1	
Benzene	ND ug/L		1.0	1		04/27/11 14:52	71-43-2	
Bromobenzene	ND ug/L		1.0	1		04/27/11 14:52	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		04/27/11 14:52	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		04/27/11 14:52	75-27-4	
Bromoform	ND ug/L		4.0	1		04/27/11 14:52	75-25-2	
Bromomethane	ND ug/L		4.0	1		04/27/11 14:52	74-83-9	

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ANALYTICAL RESULTS

Project: CRC - CITY OF ROCHESTER

Pace Project No.: 10155421

Sample: TRIP BLANK	Lab ID: 10155421003	Collected:	Received: 04/25/11 10:53	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV		Analytical Method: EPA 624						
2-Butanone (MEK)	ND ug/L		4.0	1		04/27/11 14:52	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		04/27/11 14:52	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		04/27/11 14:52	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		04/27/11 14:52	98-06-6	
Carbon disulfide	ND ug/L		1.0	1		04/27/11 14:52	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		04/27/11 14:52	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		04/27/11 14:52	108-90-7	
Chloroethane	ND ug/L		1.0	1		04/27/11 14:52	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		10.0	1		04/27/11 14:52	110-75-8	
Chloroform	ND ug/L		1.0	1		04/27/11 14:52	67-66-3	
Chloromethane	ND ug/L		4.0	1		04/27/11 14:52	74-87-3	
Chloroprene	ND ug/L		1.0	1		04/27/11 14:52	126-99-8	
2-Chlorotoluene	ND ug/L		1.0	1		04/27/11 14:52	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		04/27/11 14:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	1		04/27/11 14:52	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		04/27/11 14:52	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		04/27/11 14:52	106-93-4	
Dibromomethane	ND ug/L		4.0	1		04/27/11 14:52	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		04/27/11 14:52	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		04/27/11 14:52	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		04/27/11 14:52	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		04/27/11 14:52	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		04/27/11 14:52	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		04/27/11 14:52	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		04/27/11 14:52	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		04/27/11 14:52	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		4.0	1		04/27/11 14:52	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	1		04/27/11 14:52	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	1		04/27/11 14:52	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		04/27/11 14:52	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	1		04/27/11 14:52	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		04/27/11 14:52	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	1		04/27/11 14:52	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	1		04/27/11 14:52	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	1		04/27/11 14:52	60-29-7	
Ethylbenzene	ND ug/L		1.0	1		04/27/11 14:52	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		04/27/11 14:52	87-68-3	
2-Hexanone	ND ug/L		4.0	1		04/27/11 14:52	591-78-6	
Iodomethane	ND ug/L		4.0	1		04/27/11 14:52	74-88-4	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		04/27/11 14:52	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		04/27/11 14:52	99-87-6	
Methylene Chloride	ND ug/L		4.0	1		04/27/11 14:52	75-09-2	
2-Methylnaphthalene	ND ug/L		5.0	1		04/27/11 14:52	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND ug/L		4.0	1		04/27/11 14:52	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		04/27/11 14:52	1634-04-4	
Naphthalene	ND ug/L		4.0	1		04/27/11 14:52	91-20-3	
n-Propylbenzene	ND ug/L		1.0	1		04/27/11 14:52	103-65-1	

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ANALYTICAL RESULTS

Project: CRC - CITY OF ROCHESTER

Pace Project No.: 10155421

Sample: TRIP BLANK	Lab ID: 10155421003	Collected:	Received: 04/25/11 10:53	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV	Analytical Method: EPA 624							
Styrene	ND ug/L		1.0	1		04/27/11 14:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		04/27/11 14:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		04/27/11 14:52	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		04/27/11 14:52	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	1		04/27/11 14:52	109-99-9	
Toluene	ND ug/L		1.0	1		04/27/11 14:52	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		04/27/11 14:52	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		04/27/11 14:52	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		04/27/11 14:52	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		04/27/11 14:52	79-00-5	
Trichloroethene	ND ug/L		1.0	1		04/27/11 14:52	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		04/27/11 14:52	75-69-4	
1,2,3-Trichloropropane	ND ug/L		4.0	1		04/27/11 14:52	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	1		04/27/11 14:52	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		04/27/11 14:52	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		04/27/11 14:52	108-67-8	
Vinyl acetate	ND ug/L		10.0	1		04/27/11 14:52	108-05-4	
Vinyl chloride	ND ug/L		0.40	1		04/27/11 14:52	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		04/27/11 14:52	1330-20-7	
m&p-Xylene	ND ug/L		2.0	1		04/27/11 14:52	179601-23-1	
o-Xylene	ND ug/L		1.0	1		04/27/11 14:52	95-47-6	
Dibromofluoromethane (S)	100 %		75-125	1		04/27/11 14:52	1868-53-7	
4-Bromofluorobenzene (S)	95 %		75-125	1		04/27/11 14:52	460-00-4	
Toluene-d8 (S)	93 %		75-125	1		04/27/11 14:52	2037-26-5	
1,2-Dichloroethane-d4 (S)	97 %		75-125	1		04/27/11 14:52	17060-07-0	

QUALITY CONTROL DATA

Project: CRC - CITY OF ROCHESTER

Pace Project No.: 10155421

QC Batch: MSV/16818 Analysis Method: EPA 624
QC Batch Method: EPA 624 Analysis Description: 624 MSV
Associated Lab Samples: 10155421001, 10155421002, 10155421003

METHOD BLANK: 966446 Matrix: Water

Associated Lab Samples: 10155421001, 10155421002, 10155421003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	04/27/11 13:45	
1,1,1-Trichloroethane	ug/L	ND	1.0	04/27/11 13:45	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/27/11 13:45	
1,1,2-Trichloroethane	ug/L	ND	1.0	04/27/11 13:45	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	04/27/11 13:45	
1,1-Dichloroethane	ug/L	ND	1.0	04/27/11 13:45	
1,1-Dichloroethene	ug/L	ND	1.0	04/27/11 13:45	
1,1-Dichloropropene	ug/L	ND	1.0	04/27/11 13:45	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	04/27/11 13:45	
1,2,3-Trichloropropane	ug/L	ND	4.0	04/27/11 13:45	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	04/27/11 13:45	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	04/27/11 13:45	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	04/27/11 13:45	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	04/27/11 13:45	
1,2-Dichlorobenzene	ug/L	ND	1.0	04/27/11 13:45	
1,2-Dichloroethane	ug/L	ND	1.0	04/27/11 13:45	
1,2-Dichloropropane	ug/L	ND	4.0	04/27/11 13:45	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	04/27/11 13:45	
1,3-Dichlorobenzene	ug/L	ND	1.0	04/27/11 13:45	
1,3-Dichloropropane	ug/L	ND	1.0	04/27/11 13:45	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/27/11 13:45	
2,2-Dichloropropane	ug/L	ND	4.0	04/27/11 13:45	
2-Butanone (MEK)	ug/L	ND	4.0	04/27/11 13:45	
2-Chloroethylvinyl ether	ug/L	ND	10.0	04/27/11 13:45	
2-Chlorotoluene	ug/L	ND	1.0	04/27/11 13:45	
2-Hexanone	ug/L	ND	4.0	04/27/11 13:45	
2-Methylnaphthalene	ug/L	ND	5.0	04/27/11 13:45	
4-Chlorotoluene	ug/L	ND	1.0	04/27/11 13:45	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	04/27/11 13:45	
Acetone	ug/L	ND	25.0	04/27/11 13:45	
Acrolein	ug/L	ND	10.0	04/27/11 13:45	
Acrylonitrile	ug/L	ND	10.0	04/27/11 13:45	
Allyl chloride	ug/L	ND	4.0	04/27/11 13:45	
Benzene	ug/L	ND	1.0	04/27/11 13:45	
Bromobenzene	ug/L	ND	1.0	04/27/11 13:45	
Bromochloromethane	ug/L	ND	1.0	04/27/11 13:45	
Bromodichloromethane	ug/L	ND	1.0	04/27/11 13:45	
Bromoform	ug/L	ND	4.0	04/27/11 13:45	
Bromomethane	ug/L	ND	4.0	04/27/11 13:45	
Carbon disulfide	ug/L	ND	1.0	04/27/11 13:45	
Carbon tetrachloride	ug/L	ND	1.0	04/27/11 13:45	
Chlorobenzene	ug/L	ND	1.0	04/27/11 13:45	
Chloroethane	ug/L	ND	1.0	04/27/11 13:45	

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QUALITY CONTROL DATA

Project: CRC - CITY OF ROCHESTER

Pace Project No.: 10155421

METHOD BLANK: 966446

Matrix: Water

Associated Lab Samples: 10155421001, 10155421002, 10155421003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroform	ug/L	ND	1.0	04/27/11 13:45	
Chloromethane	ug/L	ND	4.0	04/27/11 13:45	
Chloroprene	ug/L	ND	1.0	04/27/11 13:45	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/27/11 13:45	
cis-1,3-Dichloropropene	ug/L	ND	4.0	04/27/11 13:45	
Dibromochloromethane	ug/L	ND	1.0	04/27/11 13:45	
Dibromomethane	ug/L	ND	4.0	04/27/11 13:45	
Dichlorodifluoromethane	ug/L	ND	1.0	04/27/11 13:45	
Dichlorofluoromethane	ug/L	ND	1.0	04/27/11 13:45	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	04/27/11 13:45	
Ethylbenzene	ug/L	ND	1.0	04/27/11 13:45	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	04/27/11 13:45	
Iodomethane	ug/L	ND	4.0	04/27/11 13:45	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	04/27/11 13:45	
m&p-Xylene	ug/L	ND	2.0	04/27/11 13:45	
Methyl-tert-butyl ether	ug/L	ND	1.0	04/27/11 13:45	
Methylene Chloride	ug/L	ND	4.0	04/27/11 13:45	
n-Butylbenzene	ug/L	ND	1.0	04/27/11 13:45	
n-Propylbenzene	ug/L	ND	1.0	04/27/11 13:45	
Naphthalene	ug/L	ND	4.0	04/27/11 13:45	
o-Xylene	ug/L	ND	1.0	04/27/11 13:45	
p-Isopropyltoluene	ug/L	ND	1.0	04/27/11 13:45	
sec-Butylbenzene	ug/L	ND	1.0	04/27/11 13:45	
Styrene	ug/L	ND	1.0	04/27/11 13:45	
tert-Butylbenzene	ug/L	ND	1.0	04/27/11 13:45	
Tetrachloroethene	ug/L	ND	1.0	04/27/11 13:45	
Tetrahydrofuran	ug/L	ND	10.0	04/27/11 13:45	
Toluene	ug/L	ND	1.0	04/27/11 13:45	
trans-1,2-Dichloroethene	ug/L	ND	4.0	04/27/11 13:45	
trans-1,3-Dichloropropene	ug/L	ND	4.0	04/27/11 13:45	
Trichloroethene	ug/L	ND	1.0	04/27/11 13:45	
Trichlorofluoromethane	ug/L	ND	1.0	04/27/11 13:45	
Vinyl acetate	ug/L	ND	10.0	04/27/11 13:45	
Vinyl chloride	ug/L	ND	0.40	04/27/11 13:45	
Xylene (Total)	ug/L	ND	3.0	04/27/11 13:45	
1,2-Dichloroethane-d4 (S)	%	99	75-125	04/27/11 13:45	
4-Bromofluorobenzene (S)	%	94	75-125	04/27/11 13:45	
Dibromofluoromethane (S)	%	102	75-125	04/27/11 13:45	
Toluene-d8 (S)	%	94	75-125	04/27/11 13:45	

LABORATORY CONTROL SAMPLE: 966447

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	18.8	94	75-129	
1,1,1-Trichloroethane	ug/L	20	20.0	100	73-144	

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QUALITY CONTROL DATA

Project: CRC - CITY OF ROCHESTER

Pace Project No.: 10155421

LABORATORY CONTROL SAMPLE: 966447

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	20	16.0	80	75-125	
1,1,2-Trichloroethane	ug/L	20	18.0	90	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	23.3	117	75-143	
1,1-Dichloroethane	ug/L	20	19.8	99	75-135	
1,1-Dichloroethene	ug/L	20	19.9	100	75-133	
1,1-Dichloropropene	ug/L	20	19.3	97	75-131	
1,2,3-Trichlorobenzene	ug/L	20	17.9	89	73-141	
1,2,3-Trichloropropane	ug/L	20	16.3	82	75-126	
1,2,4-Trichlorobenzene	ug/L	20	18.7	94	70-148	
1,2,4-Trimethylbenzene	ug/L	20	17.8	89	75-141	
1,2-Dibromo-3-chloropropane	ug/L	20	16.0	80	64-135	
1,2-Dibromoethane (EDB)	ug/L	20	18.1	90	75-125	
1,2-Dichlorobenzene	ug/L	20	18.3	91	75-125	
1,2-Dichloroethane	ug/L	20	18.8	94	75-136	
1,2-Dichloropropane	ug/L	20	19.0	95	75-130	
1,3,5-Trimethylbenzene	ug/L	20	17.2	86	75-141	
1,3-Dichlorobenzene	ug/L	20	18.1	90	75-125	
1,3-Dichloropropane	ug/L	20	17.5	88	75-125	
1,4-Dichlorobenzene	ug/L	20	17.8	89	75-125	
2,2-Dichloropropane	ug/L	20	20.6	103	50-150	
2-Butanone (MEK)	ug/L	20	18.8	94	58-138	
2-Chloroethylvinyl ether	ug/L	50	45.3	91	50-150	
2-Chlorotoluene	ug/L	20	17.0	85	75-132	
2-Hexanone	ug/L	20	18.7	93	65-135	
2-Methylnaphthalene	ug/L	10	8.8	88	62-150	
4-Chlorotoluene	ug/L	20	17.8	89	75-135	
4-Methyl-2-pentanone (MIBK)	ug/L	20	16.0	80	69-137	
Acetone	ug/L	50	60.4	121	52-141	
Acrolein	ug/L	200	185	92	50-150	
Acrylonitrile	ug/L	200	177	89	75-130	
Allyl chloride	ug/L	20	19.7	99	68-150	
Benzene	ug/L	20	18.7	94	75-125	
Bromobenzene	ug/L	20	17.8	89	75-125	
Bromochloromethane	ug/L	20	19.4	97	75-129	
Bromodichloromethane	ug/L	20	19.6	98	75-142	
Bromoform	ug/L	20	18.4	92	66-135	
Bromomethane	ug/L	20	23.3	117	57-150	
Carbon disulfide	ug/L	20	17.4	87	65-132	
Carbon tetrachloride	ug/L	20	20.6	103	75-148	
Chlorobenzene	ug/L	20	18.5	93	75-125	
Chloroethane	ug/L	20	22.1	111	66-142	
Chloroform	ug/L	20	19.3	97	75-131	
Chloromethane	ug/L	20	21.4	107	52-147	
Chloroprene	ug/L	20	19.4	97	71-147	
cis-1,2-Dichloroethene	ug/L	20	19.7	98	75-126	
cis-1,3-Dichloropropene	ug/L	20	19.4	97	69-150	
Dibromochloromethane	ug/L	20	18.9	94	73-138	
Dibromomethane	ug/L	20	18.1	90	75-127	

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QUALITY CONTROL DATA

Project: CRC - CITY OF ROCHESTER

Pace Project No.: 10155421

LABORATORY CONTROL SAMPLE: 966447

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dichlorodifluoromethane	ug/L	20	25.8	129	50-150	
Dichlorofluoromethane	ug/L	20	20.4	102	75-129	
Diethyl ether (Ethyl ether)	ug/L	20	18.7	94	75-126	
Ethylbenzene	ug/L	20	19.0	95	75-132	
Hexachloro-1,3-butadiene	ug/L	10	8.9	89	75-129	
Iodomethane	ug/L	20	24.3	121	73-150	
Isopropylbenzene (Cumene)	ug/L	20	18.9	95	75-142	
m&p-Xylene	ug/L	40	37.9	95	75-131	
Methyl-tert-butyl ether	ug/L	20	18.4	92	75-130	
Methylene Chloride	ug/L	20	18.4	92	71-125	
n-Butylbenzene	ug/L	20	17.9	89	70-148	
n-Propylbenzene	ug/L	20	17.6	88	75-136	
Naphthalene	ug/L	20	18.2	91	69-145	
o-Xylene	ug/L	20	18.9	95	75-129	
p-Isopropyltoluene	ug/L	20	17.5	87	75-132	
sec-Butylbenzene	ug/L	20	17.2	86	75-136	
Styrene	ug/L	20	20.5	102	75-125	
tert-Butylbenzene	ug/L	20	17.2	86	75-135	
Tetrachloroethene	ug/L	20	19.1	96	75-125	
Tetrahydrofuran	ug/L	200	161	80	63-144	
Toluene	ug/L	20	18.2	91	75-125	
trans-1,2-Dichloroethene	ug/L	20	19.3	97	72-135	
trans-1,3-Dichloropropene	ug/L	20	17.4	87	62-150	
Trichloroethene	ug/L	20	19.6	98	75-125	
Trichlorofluoromethane	ug/L	20	25.7	129	67-150	
Vinyl acetate	ug/L	20	17.5	88	55-150	
Vinyl chloride	ug/L	20	22.1	110	63-147	
Xylene (Total)	ug/L	60	56.8	95	75-130	
1,2-Dichloroethane-d4 (S)	%			96	75-125	
4-Bromofluorobenzene (S)	%			95	75-125	
Dibromofluoromethane (S)	%			101	75-125	
Toluene-d8 (S)	%			95	75-125	

MATRIX SPIKE SAMPLE: 966448

Parameter	Units	10155384001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	18.8	94	70-136	
1,1,1-Trichloroethane	ug/L	ND	20	19.9	100	68-150	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	14.8	74	75-125	M1
1,1,2-Trichloroethane	ug/L	ND	20	17.1	86	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	25.1	126	75-150	
1,1-Dichloroethane	ug/L	ND	20	20.6	103	67-143	
1,1-Dichloroethene	ug/L	ND	20	19.8	99	75-147	
1,1-Dichloropropene	ug/L	ND	20	19.8	99	75-141	
1,2,3-Trichlorobenzene	ug/L	ND	20	17.4	87	71-141	
1,2,3-Trichloropropane	ug/L	ND	20	14.9	75	75-128	
1,2,4-Trichlorobenzene	ug/L	ND	20	18.3	91	61-148	

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QUALITY CONTROL DATA

Project: CRC - CITY OF ROCHESTER

Pace Project No.: 10155421

MATRIX SPIKE SAMPLE: 966448		10155384001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	ND	20	16.7	84	65-145	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	14.5	72	64-135	
1,2-Dibromoethane (EDB)	ug/L	ND	20	17.2	86	75-126	
1,2-Dichlorobenzene	ug/L	ND	20	17.6	88	75-127	
1,2-Dichloroethane	ug/L	ND	20	17.9	90	70-138	
1,2-Dichloropropane	ug/L	ND	20	18.5	93	75-130	
1,3,5-Trimethylbenzene	ug/L	ND	20	16.1	81	61-150	
1,3-Dichlorobenzene	ug/L	ND	20	17.8	89	75-126	
1,3-Dichloropropane	ug/L	ND	20	17.0	85	75-125	
1,4-Dichlorobenzene	ug/L	ND	20	17.6	88	75-125	
2,2-Dichloropropane	ug/L	ND	20	21.0	105	50-150	
2-Butanone (MEK)	ug/L	ND	20	14.8	74	50-141	
2-Chloroethylvinyl ether	ug/L	ND	50	ND	0	50-150	P5
2-Chlorotoluene	ug/L	ND	20	16.7	84	75-137	
2-Hexanone	ug/L	ND	20	14.4	72	66-135	
2-Methylnaphthalene	ug/L	ND	10	8.4	84	62-150	
4-Chlorotoluene	ug/L	ND	20	17.6	88	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	15.0	75	62-142	
Acetone	ug/L	ND	50	38.1	76	50-150	
Acrolein	ug/L	ND	200	165	82	50-150	
Acrylonitrile	ug/L	ND	200	166	83	70-135	
Allyl chloride	ug/L	ND	20	19.2	96	50-150	
Benzene	ug/L	ND	20	18.3	92	75-125	
Bromobenzene	ug/L	ND	20	17.6	88	75-125	
Bromochloromethane	ug/L	ND	20	18.3	91	73-137	
Bromodichloromethane	ug/L	ND	20	18.6	93	70-142	
Bromoform	ug/L	ND	20	17.1	86	55-135	
Bromomethane	ug/L	ND	20	22.6	113	50-150	
Carbon disulfide	ug/L	ND	20	15.7	78	50-150	
Carbon tetrachloride	ug/L	ND	20	21.1	105	64-150	
Chlorobenzene	ug/L	ND	20	18.4	92	75-125	
Chloroethane	ug/L	ND	20	21.5	107	59-150	
Chloroform	ug/L	ND	20	18.9	95	75-132	
Chloroprene	ug/L	ND	20	19.2	96	54-150	
cis-1,2-Dichloroethene	ug/L	9.0	20	28.1	96	64-144	
cis-1,3-Dichloropropene	ug/L	ND	20	18.5	93	56-150	
Dibromochloromethane	ug/L	ND	20	18.1	91	60-138	
Dibromomethane	ug/L	ND	20	17.5	87	75-127	
Dichlorodifluoromethane	ug/L	ND	20	27.4	137	50-150	
Dichlorofluoromethane	ug/L	ND	20	20.1	101	74-142	
Diethyl ether (Ethyl ether)	ug/L	ND	20	16.6	83	75-127	
Ethylbenzene	ug/L	ND	20	18.8	94	75-134	
Hexachloro-1,3-butadiene	ug/L	ND	10	9.1	91	63-150	
Iodomethane	ug/L	ND	20	23.8	119	50-150	
Isopropylbenzene (Cumene)	ug/L	ND	20	18.9	95	69-147	
m&p-Xylene	ug/L	ND	40	37.5	94	75-133	
Methyl-tert-butyl ether	ug/L	ND	20	16.8	84	73-131	

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QUALITY CONTROL DATA

Project: CRC - CITY OF ROCHESTER

Pace Project No.: 10155421

MATRIX SPIKE SAMPLE: 966448		10155384001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Methylene Chloride	ug/L	ND	20	17.6	88	68-126	
n-Butylbenzene	ug/L	ND	20	18.0	90	59-150	
n-Propylbenzene	ug/L	ND	20	17.4	87	72-143	
Naphthalene	ug/L	ND	20	17.1	85	57-148	
o-Xylene	ug/L	ND	20	18.3	92	75-131	
p-Isopropyltoluene	ug/L	ND	20	17.4	87	75-137	
sec-Butylbenzene	ug/L	ND	20	17.3	87	75-144	
Styrene	ug/L	ND	20	18.6	93	75-134	
tert-Butylbenzene	ug/L	ND	20	17.4	87	68-150	
Tetrachloroethene	ug/L	ND	20	19.9	99	75-130	
Tetrahydrofuran	ug/L	ND	200	145	72	60-148	
Toluene	ug/L	ND	20	18.1	90	75-125	
trans-1,2-Dichloroethene	ug/L	ND	20	19.5	96	75-145	
trans-1,3-Dichloropropene	ug/L	ND	20	17.0	85	50-150	
Trichloroethene	ug/L	22.3	20	41.5	96	73-132	
Trichlorofluoromethane	ug/L	ND	20	26.6	133	67-150	
Vinyl acetate	ug/L	ND	20	16.3	82	50-150	
Vinyl chloride	ug/L	0.96	20	23.5	112	63-150	
Xylene (Total)	ug/L	ND	60	55.8	93	72-138	
1,2-Dichloroethane-d4 (S)	%				94	75-125	
4-Bromofluorobenzene (S)	%				93	75-125	
Dibromofluoromethane (S)	%				100	75-125	
Toluene-d8 (S)	%				95	75-125	

SAMPLE DUPLICATE: 966449

Parameter	Units	10155384002	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
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: CRC - CITY OF ROCHESTER

Pace Project No.: 10155421

SAMPLE DUPLICATE: 966449

Parameter	Units	10155384002 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	5.9	6.8	15	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	

Date: 05/03/2011 03:37 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC - CITY OF ROCHESTER

Pace Project No.: 10155421

SAMPLE DUPLICATE: 966449

Parameter	Units	10155384002 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	7.7	8.4	9	30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl acetate	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	0.40		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	98	99	.6		
4-Bromofluorobenzene (S)	%	93	94	1		
Dibromofluoromethane (S)	%	103	104	2		
Toluene-d8 (S)	%	93	94	2		

QUALIFIERS

Project: CRC - CITY OF ROCHESTER

Pace Project No.: 10155421

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.

SG - Silica Gel - Clean-Up

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC - CITY OF ROCHESTER

Pace Project No.: 10155421

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10155421001	AS - INFLUENT	EPA 624	MSV/16818		
10155421002	AS - EFFLUENT	EPA 624	MSV/16818		
10155421003	TRIP BLANK	EPA 624	MSV/16818		



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
 Client Information:
 Company: Landmark Environmental
 Address: 2042 W. 98th Street
 Bloomington, MN 55431
 Email To: jskramstad@landmarkenv.com
 Phone: 952-887-9601, Fax: 952-887-9605
 ext 205

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 GA IL IN MI NC
 LOCATION OH SC WI OTHER

Filtered (Y/N)

Requested Analyte

10155121

ITEM #	Section D Required Client Information		Section C COLLECTED		Section B PRESERVED		Requested Analyte	Filtered (Y/N)	Pace Project Number	Lab ID
	MATRIX CODE	SAMPLE ID	SAMPLE TYPE	DATE	TIME	DATE				
1	AS - I n f l u e n t	W G	4/22/11	9:25	3	Unpreserved			13	605-01
2	AS - E f f l u e n t	W G	4/22/11	9:30	3	H ₂ SO ₄			13	602
3						HNO ₃			13	603
4						HCl				
5						Na ₂ S ₂ O ₃				
6						Methanol				
7						Other				
8										

Additional Comments:

RELINQUISHED BY / AFFILIATION: [Signature] DATE: 4/25/11 TIME: 10:53

ACCEPTED BY / AFFILIATION: [Signature] DATE: 4/25/11 TIME: 5:6

Temp In °C

Received on Ice

Custody Sealed Cooler

Samples Intact

SAMPLER NAME AND SIGNATURE: Eric Gabrielson

PRINT Name of SAMPLER: Eric Gabrielson

SIGNATURE of SAMPLER: [Signature]

DATE Signed (MM/DD/YYYY): 4/25/11



Sample Condition Upon Receipt

Client Name: LAWMACH

Project # 10155421

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals Intact: yes no

Optional
Proj. Dir. Date
Proj. Name

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 5.6
Temp should be above freezing to 6°C

Biological Tissue is Frozen: Yes No

Comments:
Date and initials of person examining contents: 4-25-11 [Signature]

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>WT</u> <u>4-25-11</u> <u>13</u>	<u>TB MNT on COC</u>
All containers needing acid/base preservation have been checked. Noncompliance are noted in 13.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Initial when completed
Exceptions: <u>VOA</u> , Poliform, TOC, Oil and Grease, WI-DRO (water):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15. <u>1/3 AS INFLUENT</u>
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>2 H2O TB</u>
Pace Trip Blank Lot # (if purchased):	<u>041311-1</u>	

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 4/25/11

Attachment C

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:

6/16/2011

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	1.52E+00	1.87E-03	0.0	
Ethanol	64-17-5	1.50E+04		1230	1.22E+07	4.22E+00	5.19E-03	0.0	
Tetrachloroethylene (Perchloroethylene)	127-18-4	1.00E+02	2.00E+01	1230	1.63E+04	1.45E+01	1.78E-02	0.0	8.9E-09
Trichloro-1,2,2-trifluoroethane, 1,1,2- (Freon 113)	76-13-1			1230		1.69E+02	2.08E-01		
Additive Risk:								0.0	8.9E-09

Site Data Entry Worksheet for Soil Vapor Extraction Systems

Enter site data for up to 5 SVE stacks in yellow cells.

Project Name:

MN Bio Business Center

Date of Emission Test:

06/16/11

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):		
8	10	0.02			
STACK 1					

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	72.5	2.1000E-02	1.5225E+00	1.2084E-05	5.2926E-05	5.2926E-05	1.5225E+00
Ethanol	64-17-5	201	2.1000E-02	4.2210E+00	3.3501E-05	1.4673E-04	1.4673E-04	4.2210E+00
Tetrachloroethylene (Perchloroethylene)	127-18-4	668	2.1000E-02	1.4028E+01	1.1134E-04	4.8765E-04	4.8765E-04	1.4028E+01
Trichloro-1,2,2-trifluoroethane, 1,1,2- (Freon 113)	76-13-1	8050	2.1000E-02	1.6905E+02	1.3417E-03	5.8766E-03	5.8766E-03	1.6905E+02
							6.5639E-03	

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: **6/16/2011**

Enter Height of Stack: (meters)	Enter Distance from Stack to Nearest Receptor or Property Boundary: (in meters, minimum)	Air Stripper#1 influent flow rate [IFR] (liter/sec)
8	10	0.01

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	4.28E+01	0.00E+00	1.00	4.71E-01	3.74E-06	1.64E-05	4.71E-01	3.74E-06	1.64E-05

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:

6/16/2011

***Bolded chemicals are developmental toxicants. The acute toxic values are ceiling values that should not be exceeded.**

Chemical Name	CAS # or MPCA #	Acute toxicity 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		1.52E+00	2.23E-02	
Ethanol	64-17-5	180000	3343	5.38E+07	4.22E+00	6.18E-02	0.0
Tetrachloroethylene (Perchloroethylene)	127-18-4	20000	3343	5.98E+06	1.45E+01	2.12E-01	0.0
Trichloro-1,2,2-trifluoroethane, 1,1,2- (Freon 113)	76-13-1		3343		1.69E+02	2.48E+00	
Additive Risk:							0.0

Site/Project Name:

MN Bio Business Center

Emission Test Date:

6/16/2011

Risk Evaluation Summary*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):	8.9E-09

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/Project Name:

MN Bio Business Center

Emission Test Date:

5/19/2011

Risk Evaluation Summary*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):	7.7E-08

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:

MN Bio Business Center

Date of Emission Test:

05/19/11

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):		
8	10	0.02			
STACK 1					

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)
Tetrachloroethylene (Perchloroethylene)	127-18-4	6270	2.0000E-02	1.2540E+02	9.9525E-04	4.3592E-03	4.3592E-03	1.2540E+02
Trichloro-1,2,2-trifluoroethane, 1,1,2- (Freon 113)	76-13-1	19000	2.0000E-02	3.8000E+02	3.0159E-03	1.3210E-02	1.3210E-02	3.8000E+02
							1.7569E-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: **5/19/2011**

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)
Tetrachloroethylene (Perchloroethylene)	127-18-4	2.18E+01	0.00E+00	1.00	6.76E-01	5.36E-06	2.35E-05	6.76E-01	5.36E-06	2.35E-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:

5/19/2011

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)
Tetrachloroethylene (Perchloroethylene)	127-18-4	1.00E+02	2.00E+01	1230	1.63E+04	1.26E+02	1.55E-01	0.0	7.8E-08
Trichloro-1,2,2-trifluoroethane, 1,1,2- (Freon 113)	76-13-1			1230		3.80E+02	4.67E-01		
Additive Risk:								0.0	7.8E-08

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:

5/19/2011

***Bolded chemicals are developmental toxicants. The acute toxic values are ceiling values that should not be exceeded.**

Chemical Name	CAS # or MPCA #	Acute toxicity 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
Tetrachloroethylene (Perchloroethylene)	127-18-4	20000	3343	5.98E+06	1.26E+02	1.84E+00	0.0
Trichloro-1,2,2-trifluoroethane, 1,1,2- (Freon 113)	76-13-1		3343		3.80E+02	5.56E+00	
Additive Risk:							0.0

Site/Project Name:

MN Bio Business Center

Emission Test Date:

4/22/2011

Risk Evaluation Summary*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):	1.5E-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:

MN Bio Business Center

Date of Emission Test:

04/22/11

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):		
8	10	0.03			
STACK 1					

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	88.4	3.4000E-02	3.0056E+00	2.3854E-05	1.0448E-04	1.0448E-04	3.0056E+00
Ethanol	64-17-5	137	3.4000E-02	4.6580E+00	3.6969E-05	1.6192E-04	1.6192E-04	4.6580E+00
Tetrachloroethylene (Perchloroethylene)	127-18-4	6840	3.4000E-02	2.3256E+02	1.8457E-03	8.0844E-03	8.0844E-03	2.3256E+02
Trichloro-1,1,2,2-tetrafluoroethane, 1,1,2,2- (Freon 113)	76-13-1	22600	3.4000E-02	7.6840E+02	6.0985E-03	2.6711E-02	2.6711E-02	7.6840E+02
							3.5062E-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: **4/22/2011**

Enter Height of Stack: (meters)	Enter Distance from Stack to Nearest Receptor or Property Boundary: (in meters, minimum)	Air Stripper#1 influent flow rate [IFR] (liter/sec)
8	10	0.13

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	4.13E+01	0.00E+00	1.00	5.53E+00	4.39E-05	1.92E-04	5.53E+00	4.39E-05	1.92E-04

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:

4/22/2011

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	3.01E+00	3.70E-03	0.0	
Ethanol	64-17-5	1.50E+04		1230	1.22E+07	4.66E+00	5.73E-03	0.0	
Tetrachloroethylene (Perchloroethylene)	127-18-4	1.00E+02	2.00E+01	1230	1.63E+04	2.38E+02	2.93E-01	0.0	1.5E-07
Trichloro-1,2,2-trifluoroethane, 1,1,2- (Freon 113)	76-13-1			1230		7.68E+02	9.45E-01		
Additive Risk:								0.0	1.5E-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:

4/22/2011

***Bolded chemicals are developmental toxicants. The acute toxic values are ceiling values that should not be exceeded.**

Chemical Name	CAS # or MPCA #	Acute toxicity 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		3.01E+00	4.40E-02	
Ethanol	64-17-5	180000	3343	5.38E+07	4.66E+00	6.82E-02	0.0
Tetrachloroethylene (Perchloroethylene)	127-18-4	20000	3343	5.98E+06	2.34E+02	3.42E+00	0.0
Trichloro-1,2,2-trifluoroethane, 1,1,2- (Freon 113)	76-13-1		3343		7.68E+02	1.13E+01	
Additive Risk:							0.0

Petroleum Remediation Program Air Emissions Screening Spreadsheet

Soil Vapor Extraction and/or Air Stripper Risk Evaluation Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO Buisness Center
 Sample Date: 6/16/2011
 Person Completing Worksheet: Kim Boland

Chemical Name	CAS #	Acute Mixtures Evaluation				Chronic Noncancer Mixtures Evaluation									Excess Lifetime Cancer Risk (guideline value = 1E-5)		
		Acute Hazard Quotient	CNS	IRRIT	REPRO	Chronic Noncancer Hazard Quotient	CNS	CV/BLD	IMMUN	KIDN	LIVER/GI	REPRO	RESP	WHOLE BODY			
Acetone	67-64-1	0.0	0.0			0.0	0.0										
Benzene	71-43-2																
Benzyl chloride	100-44-7																
Bromodichloromethane	75-27-4																
Bromoform	75-25-2																
Bromomethane (Methyl bromide)	74-83-9																
1,3-Butadiene	106-99-0																
2-Butanone (Methyl ethyl ketone, MEK)	78-93-3																
Carbon disulfide	75-15-0																
Carbon tetrachloride	56-23-5																
Chlorobenzene	108-90-7																
Chloroethane (Ethyl chloride)	75-00-3																
Chloroform	67-66-3																
Chloromethane (Methyl chloride)	74-87-3																
Cyclohexane	110-82-7																
Dibromochloromethane	124-48-1																
1,2-Dibromoethane (Ethylene dibromide, EDB)	106-93-4																
1,2-Dichlorobenzene	95-50-1																
1,3-Dichlorobenzene	541-73-1																
1,4-Dichlorobenzene	106-46-7																
1,1-Dichloroethane	75-34-3																
1,2-Dichloroethane (DCA)	107-06-2																
1,1-Dichloroethene (DCE)	75-35-4																
cis-1,2-Dichloroethene	156-59-2																
trans-1,2-Dichloroethene	156-60-5																
Dichlorodifluoromethane (Freon 12)	75-71-8																
1,2-Dichloropropane	78-87-5																
cis-1,3-Dichloropropene*	10061-01-5																
trans-1,3-Dichloropropene*	10061-02-6																
Dichlorotetrafluoroethane (Freon 114)	76-14-2																
Ethanol	64-17-5	0.0		0.0		0.0						0.0					
Ethyl acetate	141-78-6																
Ethylbenzene	100-41-4																
4-Ethyltoluene	622-96-8																
n-Heptane	142-82-5																
Hexachloro-1,3-butadiene	87-68-3																
n-Hexane	110-54-3																
2-Hexanone (Methyl butyl ketone)	591-78-6																
4-Methyl-2-pentanone (Methyl isobutyl ketone, MIBK)	108-10-1																
Methylene chloride (Dichloromethane)	75-09-2																
Methyl-tert-butyl ether (MTBE)	1634-04-4																
Naphthalene	91-20-3																
2-Propanol (Isopropyl alcohol)	67-63-0																
Propylene (methylethylene or propene)	115-07-1																
Styrene	100-42-5																
1,1,2,2-Tetrachloroethane	79-34-5																
Tetrachloroethylene (PCE)	127-18-4	0.0	0.0	0.0		0.0	0.0										1E-08
Tetrahydrofuran	109-99-9																

MPCA Leak ID: MN BIO Buisness Center
 Sample Date: 6/16/2011
 Person Completing Worksheet: Kim Boland

Chemical Name	CAS #	Acute Mixtures Evaluation				Chronic Noncancer Mixtures Evaluation								Excess Lifetime Cancer Risk (guideline value = 1E-5)			
		Acute Hazard Quotient	CNS	IRRIT	REPRO	Chronic Noncancer Hazard Quotient	CNS	CV/BLD	IMMUN	KIDN	LIVER/GI	REPRO	RESP		WHOLE BODY		
Toluene (Methylbenzene)	108-88-3																
1,2,4-Trichlorobenzene	120-82-1																
1,1,1-Trichloroethane (Methyl chloroform)	71-55-6																
1,1,2-Trichloroethane	79-00-5																
Trichloroethylene (TCE)	79-01-6																
Trichlorofluoromethane (Freon 11)	75-69-4																
Trichlorotrifluoroethane (Freon 113)	76-13-1					0.0										0.0	
1,2,4-Trimethylbenzene	95-63-6																
1,3,5-Trimethylbenzene	108-67-8																
Vinyl acetate	108-05-4																
Vinyl chloride	75-01-4																
m&p-Xylene**	108-38-3																
o-Xylene**	95-47-6																
Hazard Index:			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2E-08

NOTES:

* based on 1,3-Dichloropropene (CAS # 542-75-6)

** based on total Xylenes (CAS # 1330-20-7)

In general, total excess lifetime cancer risk is not to exceed 1E-5 and a hazard index (or chemical-specific hazard quotient) is not to exceed 1. The additive results are shown with one decimal point, which is intended to show transparency with the addition of risk but not to imply a level of precision greater than one significant figure. Risk managers may want to round to one significant figure when comparing to a cancer risk of 1E-5 or a hazard index of 1. Exceedance of these levels, which are bolded in text when met or exceeded, may require air emission controls.

- CNS = Central Nervous System
- CV/BLD = Cardiovascular or Blood System
- IMMUN = Immune System
- IRRIT = Irritant (nasal, eye, throat irritation)
- KIDN = Kidney
- LIVER/GI = Liver/Gastrointestinal
- REPRO = Reproductive System, including developmental effects
- RESP = Respiratory System

Petroleum Remediation Program Air Emissions Screening Spreadsheet

Soil Vapor Extraction (SVE) and/or Air Stripper (AS) Data Input Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO Buisness Center		Enter SVE Standard Parameters		Enter AS Standard Parameters					
Sample Date: 6/16/2011		Distance to Nearest Receptor (feet):		33		Distance to Nearest Receptor (feet):		33	
Person Completing Worksheet: Kim Boland		SVE Stack Height (feet):		26.2		Air Stripper Stack Height (feet):		26.2	
Notes: Use this area to provide comments regarding the sampling event, input parameters, etc.		SVE Stack Flow Rate (SCFM ¹):		44		Air Stripper Influent Flow Rate (L/s):		0.011	
		Enter SVE Modeling Parameters (if applicable)		Enter AS Modeling Parameters (if applicable)					
		SVE Stack Diameter (inches):				AS Stack Diameter (inches):			
		SVE Stack Exit Velocity ² (feet per second):				AS Stack Exit Velocity ² (feet per second):			
		SVE Stack Exit Temperature (°F):				AS Stack Exit Temperature (°F):			
		SVE Annual Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA		AS Annual Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA	
SVE 1-hr Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA		AS 1-hr Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA			
Chemical Name	CAS #	SVE Emission Concentration (µg/m ³)	SVE Emission Rate (µg/sec)	AS Influent Groundwater Concentration (µg/L)	AS Effluent Groundwater Concentration (µg/L)	Removal Factor (dimensionless)	AS Emission Rate (µg/sec)		
Acetone	67-64-1	73	2						
Benzene	71-43-2								
Benzyl chloride	100-44-7								
Bromodichloromethane	75-27-4								
Bromoform	75-25-2								
Bromomethane (Methyl bromide)	74-83-9								
1,3-Butadiene	106-99-0								
2-Butanone (Methyl ethyl ketone, MEK)	78-93-3								
Carbon disulfide	75-15-0								
Carbon tetrachloride	56-23-5								
Chlorobenzene	108-90-7								
Chloroethane (Ethyl chloride)	75-00-3								
Chloroform	67-66-3								
Chloromethane (Methyl chloride)	74-87-3								
Cyclohexane	110-82-7								
Dibromochloromethane	124-48-1								
1,2-Dibromoethane (Ethylene dibromide, EDB)	106-93-4								
1,2-Dichlorobenzene	95-50-1								
1,3-Dichlorobenzene	541-73-1								
1,4-Dichlorobenzene	106-46-7								
1,1-Dichloroethane	75-34-3								
1,2-Dichloroethane (DCA)	107-06-2								
1,1-Dichloroethene (DCE)	75-35-4								
cis-1,2-Dichloroethene	156-59-2								
trans-1,2-Dichloroethene	156-60-5								
Dichlorodifluoromethane (Freon 12)	75-71-8								
1,2-Dichloropropane	78-87-5								
cis-1,3-Dichloropropene	10061-01-5								
trans-1,3-Dichloropropene	10061-02-6								
Dichlorotetrafluoroethane (Freon 114)	76-14-2								
Ethanol	64-17-5	201	4						
Ethyl acetate	141-78-6								
Ethylbenzene	100-41-4								
4-Ethyltoluene	622-96-8								
n-Heptane	142-82-5								
Hexachloro-1,3-butadiene	87-68-3								
n-Hexane	110-54-3								
2-Hexanone (Methyl butyl ketone)	591-78-6								
4-Methyl-2-pentanone (Methyl isobutyl ketone, MIBK)	108-10-1								
Methylene chloride (Dichloromethane)	75-09-2								
Methyl-tert-butyl ether (MTBE)	1634-04-4								
Naphthalene	91-20-3								
2-Propanol (Isopropyl alcohol)	67-63-0								

Petroleum Remediation Program Air Emissions Screening Spreadsheet

Soil Vapor Extraction (SVE) and/or Air Stripper (AS) Data Input Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO Buisness Center		Enter SVE Standard Parameters		Enter AS Standard Parameters				
Sample Date: 6/16/2011		Distance to Nearest Receptor (feet):	33	Distance to Nearest Receptor (feet):	33			
Person Completing Worksheet: Kim Boland		SVE Stack Height (feet):	26.2	Air Stripper Stack Height (feet):	26.2			
Notes: Use this area to provide comments regarding the sampling event, input parameters, etc.		SVE Stack Flow Rate (SCFM ¹):	44	Air Stripper Influent Flow Rate (L/s):	0.011			
		Enter SVE Modeling Parameters (if applicable)		Enter AS Modeling Parameters (if applicable)				
		SVE Stack Diameter (inches):		AS Stack Diameter (inches):				
		SVE Stack Exit Velocity ² (feet per second):		AS Stack Exit Velocity ² (feet per second):				
		SVE Stack Exit Temperature (°F):		AS Stack Exit Temperature (°F):				
		SVE Annual Dispersion Factor ((µg/m ³)/g/s)	Contact MPCA	AS Annual Dispersion Factor ((µg/m ³)/g/s)	Contact MPCA			
		SVE 1-hr Dispersion Factor ((µg/m ³)/g/s)	Contact MPCA	AS 1-hr Dispersion Factor ((µg/m ³)/g/s)	Contact MPCA			
Chemical Name	CAS #	SVE Emission Concentration (µg/m ³)	SVE Emission Rate (µg/sec)	AS Influent Groundwater Concentration (µg/L)	AS Effluent Groundwater Concentration (µg/L)	Removal Factor (dimension- less)	AS Emission Rate (µg/sec)	
Propylene (methylene or propene)	115-07-1							
Styrene	100-42-5							
1,1,2,2-Tetrachloroethane	79-34-5							
Tetrachloroethylene (PCE)	127-18-4	668	14	43	0	1.00	0	
Tetrahydrofuran	109-99-9							
Toluene (Methylbenzene)	108-88-3							
1,2,4-Trichlorobenzene	120-82-1							
1,1,1-Trichloroethane (Methyl chloroform)	71-55-6							
1,1,2-Trichloroethane	79-00-5							
Trichloroethylene (TCE)	79-01-6							
Trichlorofluoromethane (Freon 11)	75-69-4							
Trichlorotrifluoroethane (Freon 113)	76-13-1	8,050	167					
1,2,4-Trimethylbenzene	95-63-6							
1,3,5-Trimethylbenzene	108-67-8							
Vinyl acetate	108-05-4							
Vinyl chloride	75-01-4							
m&p-Xylene	108-38-3							
o-Xylene	95-47-6							

¹SCFM = standard cubic feet per minute based on a standard temperature of 77° F (25° C, 298.15 K) and a standard pressure of 1 atmosphere (14.7 pounds per square inch, 29.92 inches of mercury, 760 millimeters of mercury).

²Provide stack exit velocity for actual exit conditions (i.e., at the actual temperature and pressure of the air being discharged).

Petroleum Remediation Program Air Emissions Screening Spreadsheet

Soil Vapor Extraction and/or Air Stripper Risk Evaluation Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO Buisness Center
 Sample Date: 5/19/2011
 Person Completing Worksheet: Kim Boland

Chemical Name	CAS #	Acute Mixtures Evaluation				Chronic Noncancer Mixtures Evaluation									Excess Lifetime Cancer Risk (guideline value = 1E-5)		
		Acute Hazard Quotient	CNS	IRRIT	REPRO	Chronic Noncancer Hazard Quotient	CNS	CV/BLD	IMMUN	KIDN	LIVER/GI	REPRO	RESP	WHOLE BODY			
Acetone	67-64-1																
Benzene	71-43-2																
Benzyl chloride	100-44-7																
Bromodichloromethane	75-27-4																
Bromoform	75-25-2																
Bromomethane (Methyl bromide)	74-83-9																
1,3-Butadiene	106-99-0																
2-Butanone (Methyl ethyl ketone, MEK)	78-93-3																
Carbon disulfide	75-15-0																
Carbon tetrachloride	56-23-5																
Chlorobenzene	108-90-7																
Chloroethane (Ethyl chloride)	75-00-3																
Chloroform	67-66-3																
Chloromethane (Methyl chloride)	74-87-3																
Cyclohexane	110-82-7																
Dibromochloromethane	124-48-1																
1,2-Dibromoethane (Ethylene dibromide, EDB)	106-93-4																
1,2-Dichlorobenzene	95-50-1																
1,3-Dichlorobenzene	541-73-1																
1,4-Dichlorobenzene	106-46-7																
1,1-Dichloroethane	75-34-3																
1,2-Dichloroethane (DCA)	107-06-2																
1,1-Dichloroethene (DCE)	75-35-4																
cis-1,2-Dichloroethene	156-59-2																
trans-1,2-Dichloroethene	156-60-5																
Dichlorodifluoromethane (Freon 12)	75-71-8																
1,2-Dichloropropane	78-87-5																
cis-1,3-Dichloropropene*	10061-01-5																
trans-1,3-Dichloropropene*	10061-02-6																
Dichlorotetrafluoroethane (Freon 114)	76-14-2																
Ethanol	64-17-5																
Ethyl acetate	141-78-6																
Ethylbenzene	100-41-4																
4-Ethyltoluene	622-96-8																
n-Heptane	142-82-5																
Hexachloro-1,3-butadiene	87-68-3																
n-Hexane	110-54-3																
2-Hexanone (Methyl butyl ketone)	591-78-6																
4-Methyl-2-pentanone (Methyl isobutyl ketone, MIBK)	108-10-1																
Methylene chloride (Dichloromethane)	75-09-2																
Methyl-tert-butyl ether (MTBE)	1634-04-4																
Naphthalene	91-20-3																
2-Propanol (Isopropyl alcohol)	67-63-0																
Propylene (methylethylene or propene)	115-07-1																
Styrene	100-42-5																
1,1,2,2-Tetrachloroethane	79-34-5																
Tetrachloroethylene (PCE)	127-18-4	0.0	0.0	0.0		0.0	0.0										1E-07
Tetrahydrofuran	109-99-9																

Petroleum Remediation Program Air Emissions Screening Spreadsheet

Soil Vapor Extraction and/or Air Stripper Risk Evaluation Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO Buisness Center
 Sample Date: 5/19/2011
 Person Completing Worksheet: Kim Boland

Chemical Name	CAS #	Acute Mixtures Evaluation				Chronic Noncancer Mixtures Evaluation								Excess Lifetime Cancer Risk (guideline value = 1E-5)			
		Acute Hazard Quotient	CNS	IRRIT	REPRO	Chronic Noncancer Hazard Quotient	CNS	CV/BLD	IMMUN	KIDN	LIVER/GI	REPRO	RESP		WHOLE BODY		
Toluene (Methylbenzene)	108-88-3																
1,2,4-Trichlorobenzene	120-82-1																
1,1,1-Trichloroethane (Methyl chloroform)	71-55-6																
1,1,2-Trichloroethane	79-00-5																
Trichloroethylene (TCE)	79-01-6																
Trichlorofluoromethane (Freon 11)	75-69-4																
Trichlorotrifluoroethane (Freon 113)	76-13-1																
1,2,4-Trimethylbenzene	95-63-6					0.0											0.0
1,3,5-Trimethylbenzene	108-67-8																
Vinyl acetate	108-05-4																
Vinyl chloride	75-01-4																
m&p-Xylene**	108-38-3																
o-Xylene**	95-47-6																
Hazard Index:			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.8E-08

NOTES:

- * based on 1,3-Dichloropropene (CAS # 542-75-6)
- ** based on total Xylenes (CAS # 1330-20-7)

In general, total excess lifetime cancer risk is not to exceed 1E-5 and a hazard index (or chemical-specific hazard quotient) is not to exceed 1. The additive results are shown with one decimal point, which is intended to show transparency with the addition of risk but not to imply a level of precision greater than one significant figure. Risk managers may want to round to one significant figure when comparing to a cancer risk of 1E-5 or a hazard index of 1. Exceedance of these levels, which are bolded in text when met or exceeded, may require air emission controls.

- CNS = Central Nervous System
- CV/BLD = Cardiovascular or Blood System
- IMMUN = Immune System
- IRRIT = Irritant (nasal, eye, throat irritation)
- KIDN = Kidney
- LIVER/GI = Liver/Gastrointestinal
- REPRO = Reproductive System, including developmental effects
- RESP = Respiratory System

Petroleum Remediation Program Air Emissions Screening Spreadsheet

Soil Vapor Extraction (SVE) and/or Air Stripper (AS) Data Input Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO Buisness Center		Enter SVE Standard Parameters		Enter AS Standard Parameters							
Sample Date: 5/19/2011		Distance to Nearest Receptor (feet):		33		Distance to Nearest Receptor (feet):		33			
Person Completing Worksheet: Kim Boland		SVE Stack Height (feet):		26.2		Air Stripper Stack Height (feet):		26.2			
Notes: Use this area to provide comments regarding the sampling event, input parameters, etc.		SVE Stack Flow Rate (SCFM ¹):		41		Air Stripper Influent Flow Rate (L/s):		0.031			
		Enter SVE Modeling Parameters (if applicable)				Enter AS Modeling Parameters (if applicable)					
		SVE Stack Diameter (inches):				AS Stack Diameter (inches):					
		SVE Stack Exit Velocity ² (feet per second):				AS Stack Exit Velocity ² (feet per second):					
		SVE Stack Exit Temperature (°F):				AS Stack Exit Temperature (°F):					
		SVE Annual Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA		AS Annual Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA			
SVE 1-hr Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA		AS 1-hr Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA					
Chemical Name	CAS #	SVE Emission Concentration (µg/m ³)	SVE Emission Rate (µg/sec)	AS Influent Groundwater Concentration (µg/L)	AS Effluent Groundwater Concentration (µg/L)	Removal Factor (dimensionless)	AS Emission Rate (µg/sec)				
Acetone	67-64-1										
Benzene	71-43-2										
Benzyl chloride	100-44-7										
Bromodichloromethane	75-27-4										
Bromoform	75-25-2										
Bromomethane (Methyl bromide)	74-83-9										
1,3-Butadiene	106-99-0										
2-Butanone (Methyl ethyl ketone, MEK)	78-93-3										
Carbon disulfide	75-15-0										
Carbon tetrachloride	56-23-5										
Chlorobenzene	108-90-7										
Chloroethane (Ethyl chloride)	75-00-3										
Chloroform	67-66-3										
Chloromethane (Methyl chloride)	74-87-3										
Cyclohexane	110-82-7										
Dibromochloromethane	124-48-1										
1,2-Dibromoethane (Ethylene dibromide, EDB)	106-93-4										
1,2-Dichlorobenzene	95-50-1										
1,3-Dichlorobenzene	541-73-1										
1,4-Dichlorobenzene	106-46-7										
1,1-Dichloroethane	75-34-3										
1,2-Dichloroethane (DCA)	107-06-2										
1,1-Dichloroethene (DCE)	75-35-4										
cis-1,2-Dichloroethene	156-59-2										
trans-1,2-Dichloroethene	156-60-5										
Dichlorodifluoromethane (Freon 12)	75-71-8										
1,2-Dichloropropane	78-87-5										
cis-1,3-Dichloropropene	10061-01-5										
trans-1,3-Dichloropropene	10061-02-6										
Dichlorotetrafluoroethane (Freon 114)	76-14-2										
Ethanol	64-17-5										
Ethyl acetate	141-78-6										
Ethylbenzene	100-41-4										
4-Ethyltoluene	622-96-8										
n-Heptane	142-82-5										
Hexachloro-1,3-butadiene	87-68-3										
n-Hexane	110-54-3										
2-Hexanone (Methyl butyl ketone)	591-78-6										
4-Methyl-2-pentanone (Methyl isobutyl ketone, MIBK)	108-10-1										
Methylene chloride (Dichloromethane)	75-09-2										
Methyl-tert-butyl ether (MTBE)	1634-04-4										
Naphthalene	91-20-3										
2-Propanol (Isopropyl alcohol)	67-63-0										

Petroleum Remediation Program Air Emissions Screening Spreadsheet

Soil Vapor Extraction (SVE) and/or Air Stripper (AS) Data Input Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO Buisness Center		Enter SVE Standard Parameters		Enter AS Standard Parameters			
Sample Date: 5/19/2011		Distance to Nearest Receptor (feet):	33	Distance to Nearest Receptor (feet):		33	
Person Completing Worksheet: Kim Boland		SVE Stack Height (feet):	26.2	Air Stripper Stack Height (feet):		26.2	
Notes: Use this area to provide comments regarding the sampling event, input parameters, etc.		SVE Stack Flow Rate (SCFM ¹):	41	Air Stripper Influent Flow Rate (L/s):		0.031	
		Enter SVE Modeling Parameters (if applicable)		Enter AS Modeling Parameters (if applicable)			
		SVE Stack Diameter (inches):		AS Stack Diameter (inches):			
		SVE Stack Exit Velocity ² (feet per second):		AS Stack Exit Velocity ² (feet per second):			
		SVE Stack Exit Temperature (°F):		AS Stack Exit Temperature (°F):			
		SVE Annual Dispersion Factor ((µg/m ³)/g/s)	Contact MPCA	AS Annual Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA	
SVE 1-hr Dispersion Factor ((µg/m ³)/g/s)	Contact MPCA	AS 1-hr Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA			
Chemical Name	CAS #	SVE Emission Concentration (µg/m ³)	SVE Emission Rate (µg/sec)	AS Influent Groundwater Concentration (µg/L)	AS Effluent Groundwater Concentration (µg/L)	Removal Factor (dimensionless)	AS Emission Rate (µg/sec)
Propylene (methylene or propene)	115-07-1						
Styrene	100-42-5						
1,1,2,2-Tetrachloroethane	79-34-5						
Tetrachloroethylene (PCE)	127-18-4	6,270	121	22	0	1.00	1
Tetrahydrofuran	109-99-9						
Toluene (Methylbenzene)	108-88-3						
1,2,4-Trichlorobenzene	120-82-1						
1,1,1-Trichloroethane (Methyl chloroform)	71-55-6						
1,1,2-Trichloroethane	79-00-5						
Trichloroethylene (TCE)	79-01-6						
Trichlorofluoromethane (Freon 11)	75-69-4						
Trichlorotrifluoroethane (Freon 113)	76-13-1	19,000	367				
1,2,4-Trimethylbenzene	95-63-6						
1,3,5-Trimethylbenzene	108-67-8						
Vinyl acetate	108-05-4						
Vinyl chloride	75-01-4						
m&p-Xylene	108-38-3						
o-Xylene	95-47-6						

¹SCFM = standard cubic feet per minute based on a standard temperature of 77° F (25° C, 298.15 K) and a standard pressure of 1 atmosphere (14.7 pounds per square inch, 29.92 inches of mercury, 760 millimeters of mercury).

²Provide stack exit velocity for actual exit conditions (i.e., at the actual temperature and pressure of the air being discharged).

Petroleum Remediation Program Air Emissions Screening Spreadsheet

Soil Vapor Extraction and/or Air Stripper Risk Evaluation Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO Buisness Center
 Sample Date: 4/22/2011
 Person Completing Worksheet: Kim Boland

Chemical Name	CAS #	Acute Mixtures Evaluation				Chronic Noncancer Mixtures Evaluation									Excess Lifetime Cancer Risk (guideline value = 1E-5)		
		Acute Hazard Quotient	CNS	IRRIT	REPRO	Chronic Noncancer Hazard Quotient	CNS	CV/BLD	IMMUN	KIDN	LIVER/GI	REPRO	RESP	WHOLE BODY			
Acetone	67-64-1	0.0	0.0			0.0	0.0										
Benzene	71-43-2																
Benzyl chloride	100-44-7																
Bromodichloromethane	75-27-4																
Bromoform	75-25-2																
Bromomethane (Methyl bromide)	74-83-9																
1,3-Butadiene	106-99-0																
2-Butanone (Methyl ethyl ketone, MEK)	78-93-3																
Carbon disulfide	75-15-0																
Carbon tetrachloride	56-23-5																
Chlorobenzene	108-90-7																
Chloroethane (Ethyl chloride)	75-00-3																
Chloroform	67-66-3																
Chloromethane (Methyl chloride)	74-87-3																
Cyclohexane	110-82-7																
Dibromochloromethane	124-48-1																
1,2-Dibromoethane (Ethylene dibromide, EDB)	106-93-4																
1,2-Dichlorobenzene	95-50-1																
1,3-Dichlorobenzene	541-73-1																
1,4-Dichlorobenzene	106-46-7																
1,1-Dichloroethane	75-34-3																
1,2-Dichloroethane (DCA)	107-06-2																
1,1-Dichloroethene (DCE)	75-35-4																
cis-1,2-Dichloroethene	156-59-2																
trans-1,2-Dichloroethene	156-60-5																
Dichlorodifluoromethane (Freon 12)	75-71-8																
1,2-Dichloropropane	78-87-5																
cis-1,3-Dichloropropene*	10061-01-5																
trans-1,3-Dichloropropene*	10061-02-6																
Dichlorotetrafluoroethane (Freon 114)	76-14-2																
Ethanol	64-17-5	0.0		0.0		0.0						0.0					
Ethyl acetate	141-78-6																
Ethylbenzene	100-41-4																
4-Ethyltoluene	622-96-8																
n-Heptane	142-82-5																
Hexachloro-1,3-butadiene	87-68-3																
n-Hexane	110-54-3																
2-Hexanone (Methyl butyl ketone)	591-78-6																
4-Methyl-2-pentanone (Methyl isobutyl ketone, MIBK)	108-10-1																
Methylene chloride (Dichloromethane)	75-09-2																
Methyl-tert-butyl ether (MTBE)	1634-04-4																
Naphthalene	91-20-3																
2-Propanol (Isopropyl alcohol)	67-63-0																
Propylene (methylethylene or propene)	115-07-1																
Styrene	100-42-5																
1,1,2,2-Tetrachloroethane	79-34-5																
Tetrachloroethylene (PCE)	127-18-4	0.0	0.0	0.0		0.0	0.0										2E-07
Tetrahydrofuran	109-99-9																

MPCA Leak ID: MN BIO Buisness Center
 Sample Date: 4/22/2011
 Person Completing Worksheet: Kim Boland

Chemical Name	CAS #	Acute Mixtures Evaluation				Chronic Noncancer Mixtures Evaluation								Excess Lifetime Cancer Risk (guideline value = 1E-5)		
		Acute Hazard Quotient	CNS	IRRIT	REPRO	Chronic Noncancer Hazard Quotient	CNS	CV/BLD	IMMUN	KIDN	LIVER/GI	REPRO	RESP		WHOLE BODY	
Toluene (Methylbenzene)	108-88-3															
1,2,4-Trichlorobenzene	120-82-1															
1,1,1-Trichloroethane (Methyl chloroform)	71-55-6															
1,1,2-Trichloroethane	79-00-5															
Trichloroethylene (TCE)	79-01-6															
Trichlorofluoromethane (Freon 11)	75-69-4															
Trichlorotrifluoroethane (Freon 113)	76-13-1															
1,2,4-Trimethylbenzene	95-63-6															
1,3,5-Trimethylbenzene	108-67-8															
Vinyl acetate	108-05-4															
Vinyl chloride	75-01-4															
m&p-Xylene**	108-38-3															
o-Xylene**	95-47-6															
Hazard Index:			0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9E-07

NOTES:

- * based on 1,3-Dichloropropene (CAS # 542-75-6)
- ** based on total Xylenes (CAS # 1330-20-7)

In general, total excess lifetime cancer risk is not to exceed 1E-5 and a hazard index (or chemical-specific hazard quotient) is not to exceed 1. The additive results are shown with one decimal point, which is intended to show transparency with the addition of risk but not to imply a level of precision greater than one significant figure. Risk managers may want to round to one significant figure when comparing to a cancer risk of 1E-5 or a hazard index of 1. Exceedance of these levels, which are bolded in text when met or exceeded, may require air emission controls.

- CNS = Central Nervous System
- CV/BLD = Cardiovascular or Blood System
- IMMUN = Immune System
- IRRIT = Irritant (nasal, eye, throat irritation)
- KIDN = Kidney
- LIVER/GI = Liver/Gastrointestinal
- REPRO = Reproductive System, including developmental effects
- RESP = Respiratory System

Petroleum Remediation Program Air Emissions Screening Spreadsheet

Soil Vapor Extraction (SVE) and/or Air Stripper (AS) Data Input Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO Buisness Center		Enter SVE Standard Parameters		Enter AS Standard Parameters					
Sample Date: 4/22/2011		Distance to Nearest Receptor (feet):		33	Distance to Nearest Receptor (feet):		33		
Person Completing Worksheet: Kim Boland		SVE Stack Height (feet):		26.2	Air Stripper Stack Height (feet):		26.2		
Notes: Use this area to provide comments regarding the sampling event, input parameters, etc.		SVE Stack Flow Rate (SCFM ¹):		73	Air Stripper Influent Flow Rate (L/s):		0.134		
		Enter SVE Modeling Parameters (if applicable)		Enter AS Modeling Parameters (if applicable)					
		SVE Stack Diameter (inches):				AS Stack Diameter (inches):			
		SVE Stack Exit Velocity ² (feet per second):				AS Stack Exit Velocity ² (feet per second):			
		SVE Stack Exit Temperature (°F):				AS Stack Exit Temperature (°F):			
		SVE Annual Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA		AS Annual Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA	
SVE 1-hr Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA		AS 1-hr Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA			
Chemical Name	CAS #	SVE Emission Concentration (µg/m ³)	SVE Emission Rate (µg/sec)	AS Influent Groundwater Concentration (µg/L)	AS Effluent Groundwater Concentration (µg/L)	Removal Factor (dimensionless)	AS Emission Rate (µg/sec)		
Acetone	67-64-1	88	3						
Benzene	71-43-2								
Benzyl chloride	100-44-7								
Bromodichloromethane	75-27-4								
Bromoform	75-25-2								
Bromomethane (Methyl bromide)	74-83-9								
1,3-Butadiene	106-99-0								
2-Butanone (Methyl ethyl ketone, MEK)	78-93-3								
Carbon disulfide	75-15-0								
Carbon tetrachloride	56-23-5								
Chlorobenzene	108-90-7								
Chloroethane (Ethyl chloride)	75-00-3								
Chloroform	67-66-3								
Chloromethane (Methyl chloride)	74-87-3								
Cyclohexane	110-82-7								
Dibromochloromethane	124-48-1								
1,2-Dibromoethane (Ethylene dibromide, EDB)	106-93-4								
1,2-Dichlorobenzene	95-50-1								
1,3-Dichlorobenzene	541-73-1								
1,4-Dichlorobenzene	106-46-7								
1,1-Dichloroethane	75-34-3								
1,2-Dichloroethane (DCA)	107-06-2								
1,1-Dichloroethene (DCE)	75-35-4								
cis-1,2-Dichloroethene	156-59-2								
trans-1,2-Dichloroethene	156-60-5								
Dichlorodifluoromethane (Freon 12)	75-71-8								
1,2-Dichloropropane	78-87-5								
cis-1,3-Dichloropropene	10061-01-5								
trans-1,3-Dichloropropene	10061-02-6								
Dichlorotetrafluoroethane (Freon 114)	76-14-2								
Ethanol	64-17-5	137	5						
Ethyl acetate	141-78-6								
Ethylbenzene	100-41-4								
4-Ethyltoluene	622-96-8								
n-Heptane	142-82-5								
Hexachloro-1,3-butadiene	87-68-3								
n-Hexane	110-54-3								
2-Hexanone (Methyl butyl ketone)	591-78-6								
4-Methyl-2-pentanone (Methyl isobutyl ketone, MIBK)	108-10-1								
Methylene chloride (Dichloromethane)	75-09-2								
Methyl-tert-butyl ether (MTBE)	1634-04-4								
Naphthalene	91-20-3								
2-Propanol (Isopropyl alcohol)	67-63-0								

Petroleum Remediation Program Air Emissions Screening Spreadsheet

Soil Vapor Extraction (SVE) and/or Air Stripper (AS) Data Input Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO Buisness Center		Enter SVE Standard Parameters		Enter AS Standard Parameters				
Sample Date: 4/22/2011		Distance to Nearest Receptor (feet):	33	Distance to Nearest Receptor (feet):	33			
Person Completing Worksheet: Kim Boland		SVE Stack Height (feet):	26.2	Air Stripper Stack Height (feet):	26.2			
Notes: Use this area to provide comments regarding the sampling event, input parameters, etc.		SVE Stack Flow Rate (SCFM ¹):	73	Air Stripper Influent Flow Rate (L/s):	0.134			
		Enter SVE Modeling Parameters (if applicable)		Enter AS Modeling Parameters (if applicable)				
		SVE Stack Diameter (inches):		AS Stack Diameter (inches):				
		SVE Stack Exit Velocity ² (feet per second):		AS Stack Exit Velocity ² (feet per second):				
		SVE Stack Exit Temperature (°F):		AS Stack Exit Temperature (°F):				
		SVE Annual Dispersion Factor ((µg/m ³)/g/s)	Contact MPCA	AS Annual Dispersion Factor ((µg/m ³)/g/s)	Contact MPCA			
SVE 1-hr Dispersion Factor ((µg/m ³)/g/s)	Contact MPCA	AS 1-hr Dispersion Factor ((µg/m ³)/g/s)	Contact MPCA					
Chemical Name	CAS #	SVE Emission Concentration (µg/m ³)	SVE Emission Rate (µg/sec)	AS Influent Groundwater Concentration (µg/L)	AS Effluent Groundwater Concentration (µg/L)	Removal Factor (dimensionless)	AS Emission Rate (µg/sec)	
Propylene (methylene or propene)	115-07-1							
Styrene	100-42-5							
1,1,2,2-Tetrachloroethane	79-34-5							
Tetrachloroethylene (PCE)	127-18-4	6,840	235	41	0	1.00	5	
Tetrahydrofuran	109-99-9							
Toluene (Methylbenzene)	108-88-3							
1,2,4-Trichlorobenzene	120-82-1							
1,1,1-Trichloroethane (Methyl chloroform)	71-55-6							
1,1,2-Trichloroethane	79-00-5							
Trichloroethylene (TCE)	79-01-6							
Trichlorofluoromethane (Freon 11)	75-69-4							
Trichlorotrifluoroethane (Freon 113)	76-13-1	22,600	775					
1,2,4-Trimethylbenzene	95-63-6							
1,3,5-Trimethylbenzene	108-67-8							
Vinyl acetate	108-05-4							
Vinyl chloride	75-01-4							
m&p-Xylene	108-38-3							
o-Xylene	95-47-6							

¹SCFM = standard cubic feet per minute based on a standard temperature of 77° F (25° C, 298.15 K) and a standard pressure of 1 atmosphere (14.7 pounds per square inch, 29.92 inches of mercury, 760 millimeters of mercury).

²Provide stack exit velocity for actual exit conditions (i.e., at the actual temperature and pressure of the air being discharged).