

December 11, 2012

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

The DPE system was originally started up on June 29, 2009, and operated continuously on source area well, DPE-1, through October 15, 2009. On October 15, 2009, the DPE system operational configuration was switched from continuous operation on DPE-1 to operating sequentially on all DPE wells. During this time, the DPE system was programmed to operate on each well for 45 minutes before switching to the next well, a process taking 6 hours to complete one full cycle. On September 8, 2011, the DPE system operational configuration was switched to focus on DPE-1, DPE-2, DPE-3, and DPE-4, based on DPE well perchloroethene (PCE) analytical results and photo-ionization detector readings from the August 28, 2011, monitoring event. During one full 6-hour cycle, DPE-1, DPE-2, DPE-3, and DPE-4 each operate for 85 minutes before switching to the next well, while DPE-5, DPE-6, DPE-7, and DPE-8 each operate for 5 minutes before switching to the next well. DPE-5, DPE-6, DPE-7, and DPE-8 were kept in the 6 hour cycle to help prevent the solenoid valves from deteriorating if left off for a long period of time. On June 18, 2012, the DPE system operational configuration was switched to focus on DPE-3 based on DPE well PCE analytical results and photo-ionization detector readings from previous monitoring events. During one full 6-hour cycle DPE-3 operates for 5.4 hours and DPE-1, DPE-2, DPE-4, DPE-5, DPE-6, DPE-7 and DPE-8 for 5 minutes before switching to the next well. During this reporting period, the DPE system operational configuration consisted of focusing on DPE-3.

This report documents the monthly DPE system operational and analytical data from the July 19, 2012 to September 26, 2012 monitoring events, as well as quarterly groundwater monitoring data from samples collected on September 26, 2012. 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. 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 September 26, concentrations to the baseline emissions data from April 9, 2009, the total volatile organic compound (VOC) concentration has decreased from 14,613,880 micrograms per

cubic meter (ug/m^3) to $100,659 \text{ ug}/\text{m}^3$, a decrease of 99.3 percent (See **Figures 4A** and **4B**, and **Tables 2 and 3**). PCE concentrations decreased from $11,600,000 \text{ ug}/\text{m}^3$ to $45,800 \text{ ug}/\text{m}^3$, a decrease of 99.6 percent from the baseline concentration (See **Figures 4A** and **4B**, and **Tables 2 and 3**). The PCE concentrations from the September 26, 2012, sampling events decreased from the July 26, 2010, concentrations as shown in **Figure 4B**.

On June 18, 2012, the DPE system operational configuration was switched to focus on DPE-3. As a result of the switch, the total VOC and PCE emissions concentrations increased from 41,142 and $11,200 \text{ ug}/\text{m}^3$, respectively, on June 14, 2012, to 173,300 and $113,000 \text{ ug}/\text{m}^3$, respectively, on July 19, 2012. The total VOC emissions concentrations were $54,700 \text{ ug}/\text{m}^3$ on August 23, 2012, and $100,659 \text{ ug}/\text{m}^3$ on September 26, 2012. The PCE emissions concentrations were $27,800 \text{ ug}/\text{m}^3$ on August 23, 2012, and $45,800 \text{ ug}/\text{m}^3$ on September 26, 2012.

During this reporting period, the DPE system removed approximately 46.24 pounds of total VOCs, including approximately 26.61 pounds of PCE, from June 14, through September 26, 2012 (see **Figure 5** and **Table 2**). Through September 26, 2012, the DPE system has removed a total of 3,513.39 pounds of total VOCs and 2,670.82 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) Petroleum Remediation (PR) Program spreadsheet was used to evaluate the emissions rates from the DPE system and air stripper stacks on the Property during the DPE system sampling event. The site specific emissions rates for PCE from July 19, 2012, through September 26, 2012, were below the MPCA screening emissions rate (SER) for chronic risk of 16,300 micrograms per second (ug/s), and for acute risk of 5,980,000 ug/s . The PR emissions rates are provided in **Table 4** and the PR spreadsheets are provided in **Attachment C**.

The cumulative total VOC mass removed from the DPE system groundwater discharge during air stripper operation through September 26, 2012 was 0.60 pounds. 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 an increasing trend from July 19 through September 26, 2012 (see **Figures 6, 7, and 8**). 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 September 26, 2012. After approximately three years of DPE system operation, the PCE concentrations have decreased at all of the monitoring and DPE wells (see **Figures 9A** and **9B**, and **Table 9**). The associated percent decrease of PCE concentration at each well, when compared to baseline groundwater concentrations, is listed as follows: MW-14 (100.0%), MW-15 (99.0%), MW-16 (99.9%), MW-17 (89.5%), MW-18 (99.0%), MW-19 (12.5%), MW-20 (95.0%), DPE-1 (99.9%), DPE-2 (99.9%), DPE-3 (100.0%), DPE-4 (99.5%), DPE-5 (98.8%), DPE-6 (99.0%) and DPE-7 (100.0%). DPE-8 was not sampled during the September 26, 2012, monitoring event because the well was dry and would not generate any groundwater. Increased concentrations of PCE,

when compared to the May 17, 2012 groundwater data were observed at MW-16, MW-17, MW-18, DPE-1, DPE-5 and DPE-6. **Figure 10** shows the iso-concentration contour map for PCE during the September 26, 2012, 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 since system startup in June 2009.
- Through September 26, 2012, the DPE system removed 3,513.39 pounds of total VOCs, including 2,670.82 pounds of PCE from the subsurface.
- When comparing the September 26, 2012, concentrations to the baseline emissions data from April 9, 2009, the total VOC and PCE concentrations have decreased 99.3 percent and 99.6 percent, respectively.
- The DPE system removed 46.24 pounds of total VOCs, including 26.61 pounds from PCE, from July 19, through September 26, 2012.
- During this reporting period, the site specific emissions rates for PCE were below the MPCA's PR Program acute and chronic emissions criteria.
- The DPE system has continued to effectively lower the groundwater elevations on the Property, while increasing the mass of VOCs and PCE removed.
- DPE system operation has effectively decreased the concentrations of PCE in the groundwater at the following wells: MW-14 (100.0%), MW-15 (99.0%), MW-16 (99.9%), MW-17 (89.5%), MW-18 (99.0%), MW-19 (12.5%), MW-20 (95.0%), DPE-1 (99.9%), DPE-2 (99.9%), DPE-3 (100.0%), DPE-4 (99.5%), DPE-5 (98.8%), DPE-6 (99.0%) and DPE-7 (100.0%) .

Recommendations

After approximately 3 months of focused DPE system operation at DPE-3, the groundwater PCE analytical results decreased from 3,690 ug/L on May 17, 2012, to 74.8 September 26, 2012. Based on the decrease in PCE concentration at DPE-3, the MPCA approved the temporary shut-down of the DPE system in an email dated October 22, 2012. The approved temporary DPE system shut-down period was

30 to 60 days and included conducting rebound sampling of the DPE system emissions and groundwater concentrations. The DPE system was temporarily shut down on October 26, 2012. Rebound sampling of the DPE system emissions and groundwater will be conducted before the end of December 2012. The DPE system operational and groundwater results will be evaluated after resampling the system to determine if continued DPE system operation is necessary or if the system can be permanently shut down and replaced by operation of the passive venting system. If additional DPE system operation is required, the system will be cycled to alternate 30-day system operation periods, with 30-day shutdown periods for further evaluation of emissions rebound.

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,

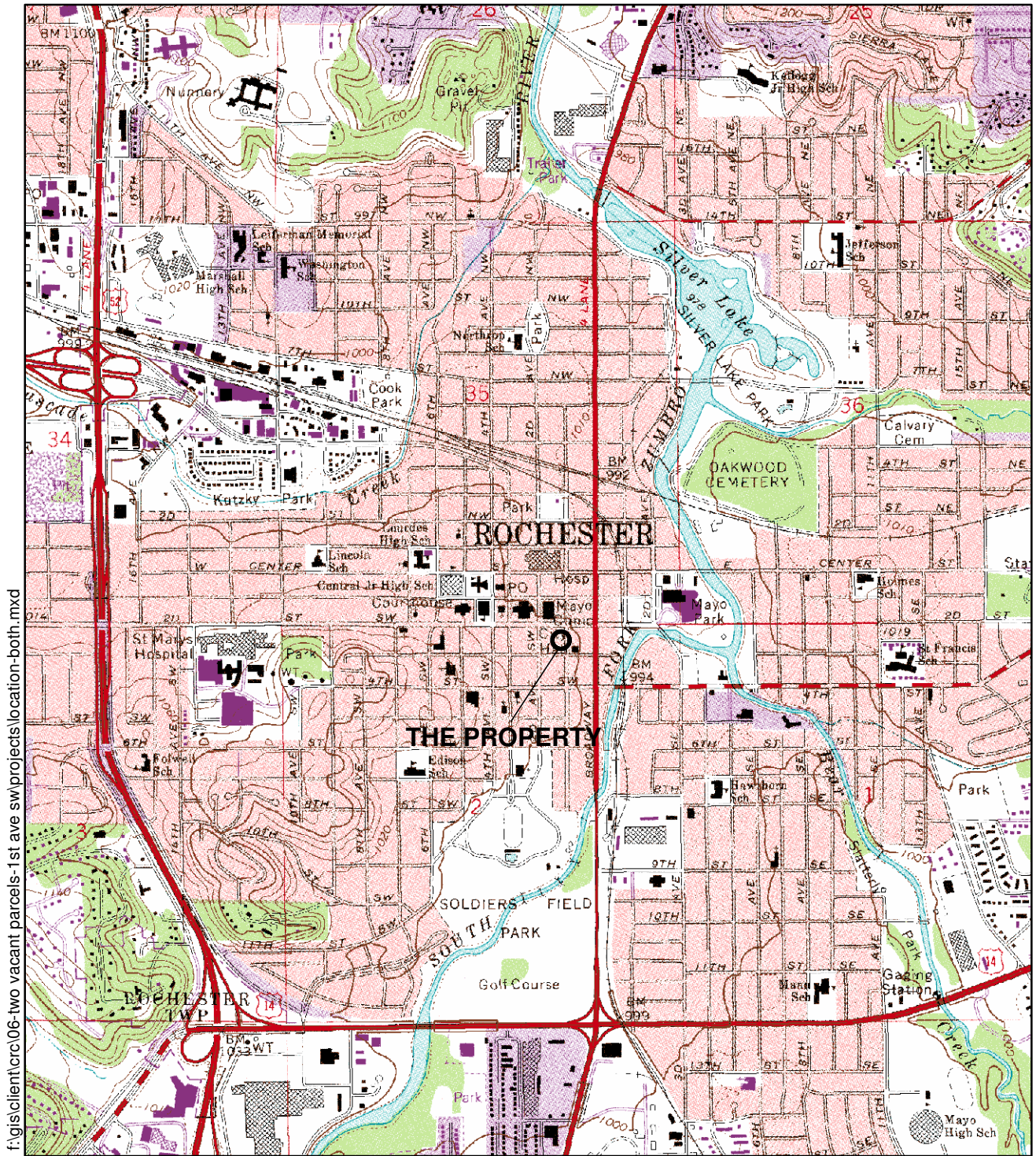
A handwritten signature in black ink, appearing to read "Jason D. Skramstad". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Jason D. Skramstad, P.E.

Cc: Terry Spaeth, City of Rochester

F:\PROJECTS\Crc-City of Rochester\Monthly System Reports\20121211 DPE GW\20121211 Quarterly GW and DPE Report.doc

Figures



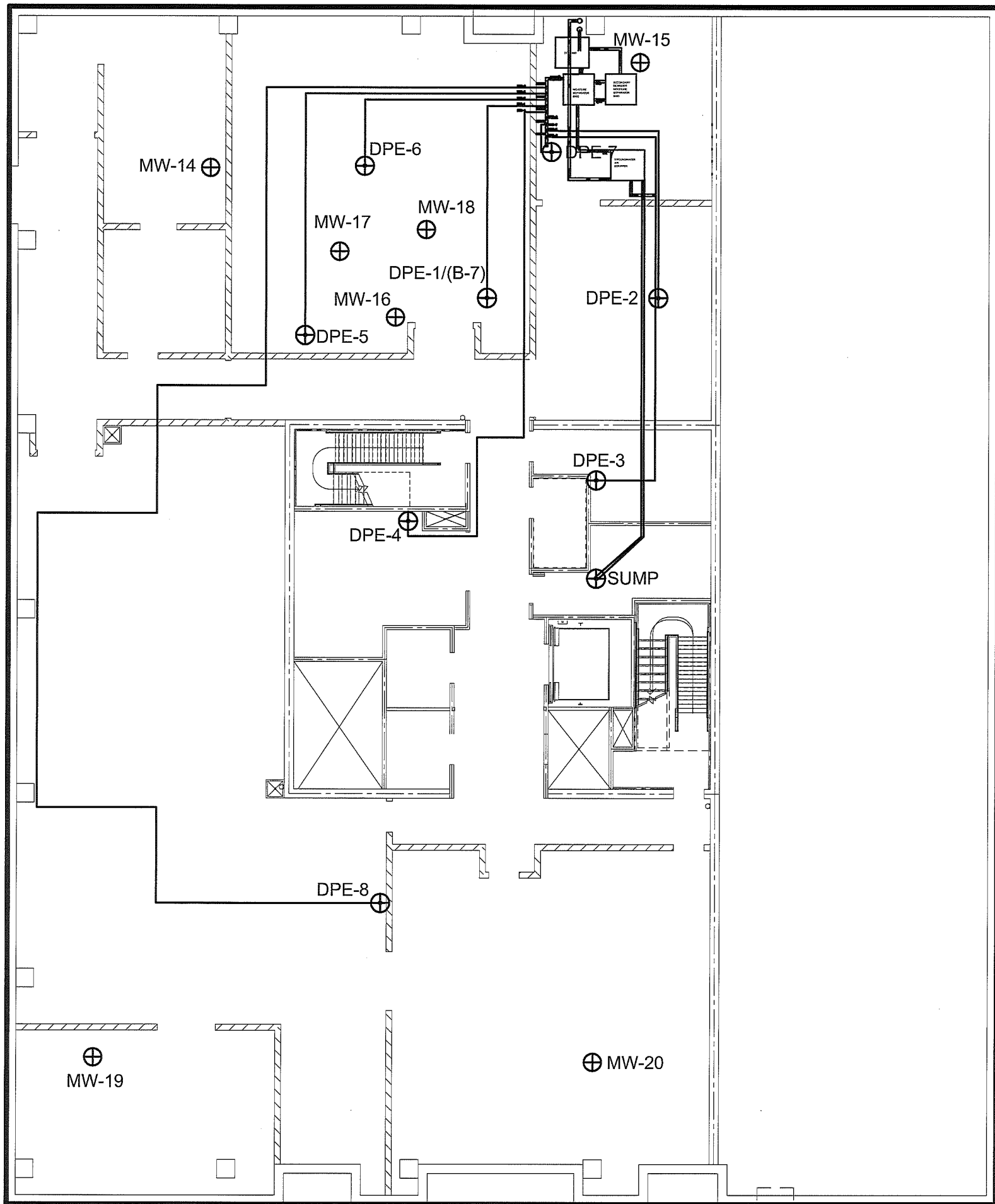
Source: Rochester, Minnesota Topographic Quadrangle, 7.5-Minute Series



2,000 1,000 0 2,000 Feet

FIGURE 1

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



BASEMENT FLOOR PLAN

LEGEND

- ⊕ DPE, Monitoring Well, or Sump Location
- DPE Piping Location
- Property Boundary



20 feet
SCALE

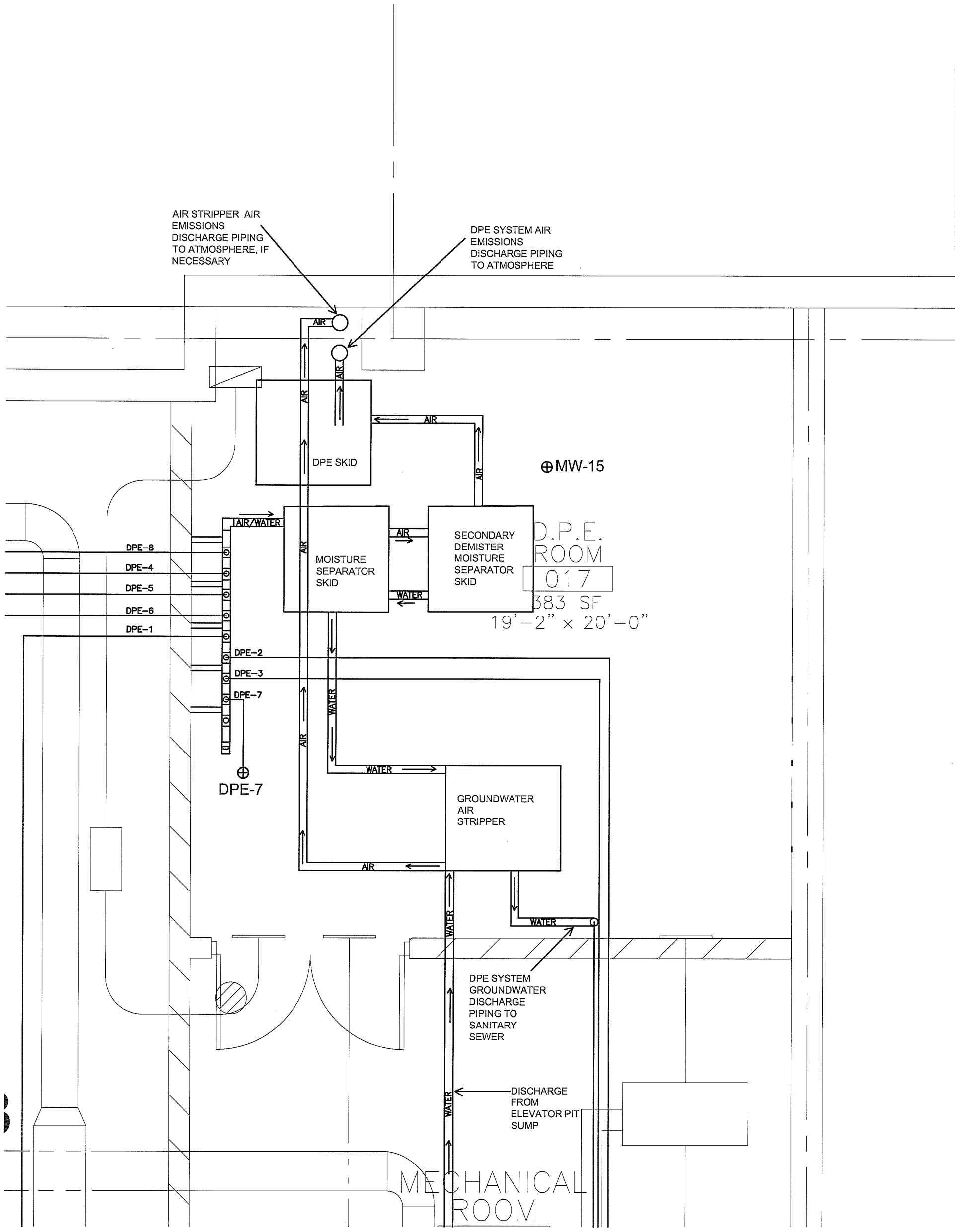
BASE DRAWINGS PROVIDED BY HGA
F:/Projects/CRC/CAD/basement planview\DPE AS Layout.dwg

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

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

FIGURE 3
DPE ROOM LAYOUT
221 FIRST AVENUE S.W.
ROCHESTER, MINNESOTA

Landmark Project Number: CRC		
Drawn: JDS	Checked: JDS	Designed: JDS
Scale: 1:3	Date: 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

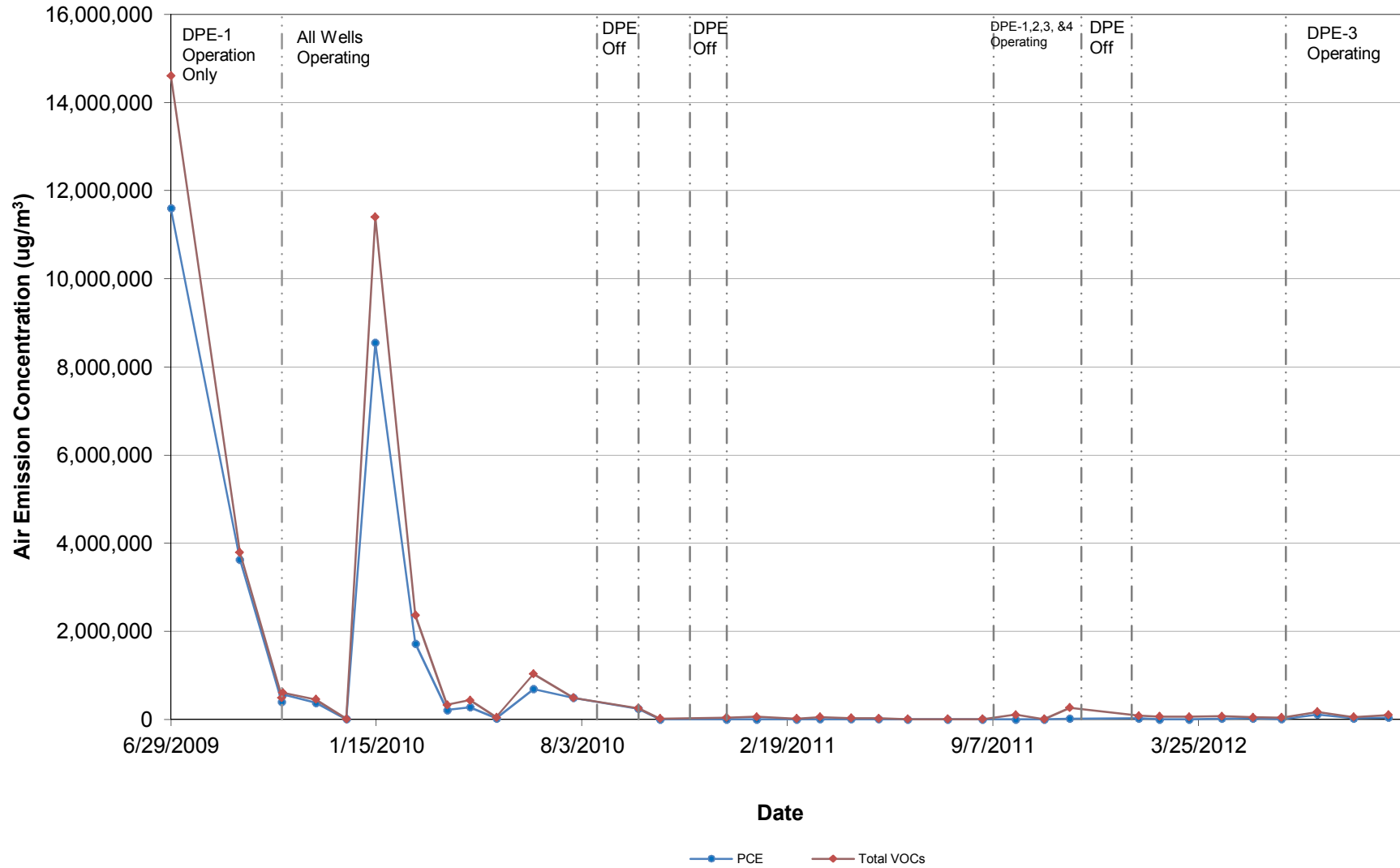


FIGURE 4B

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

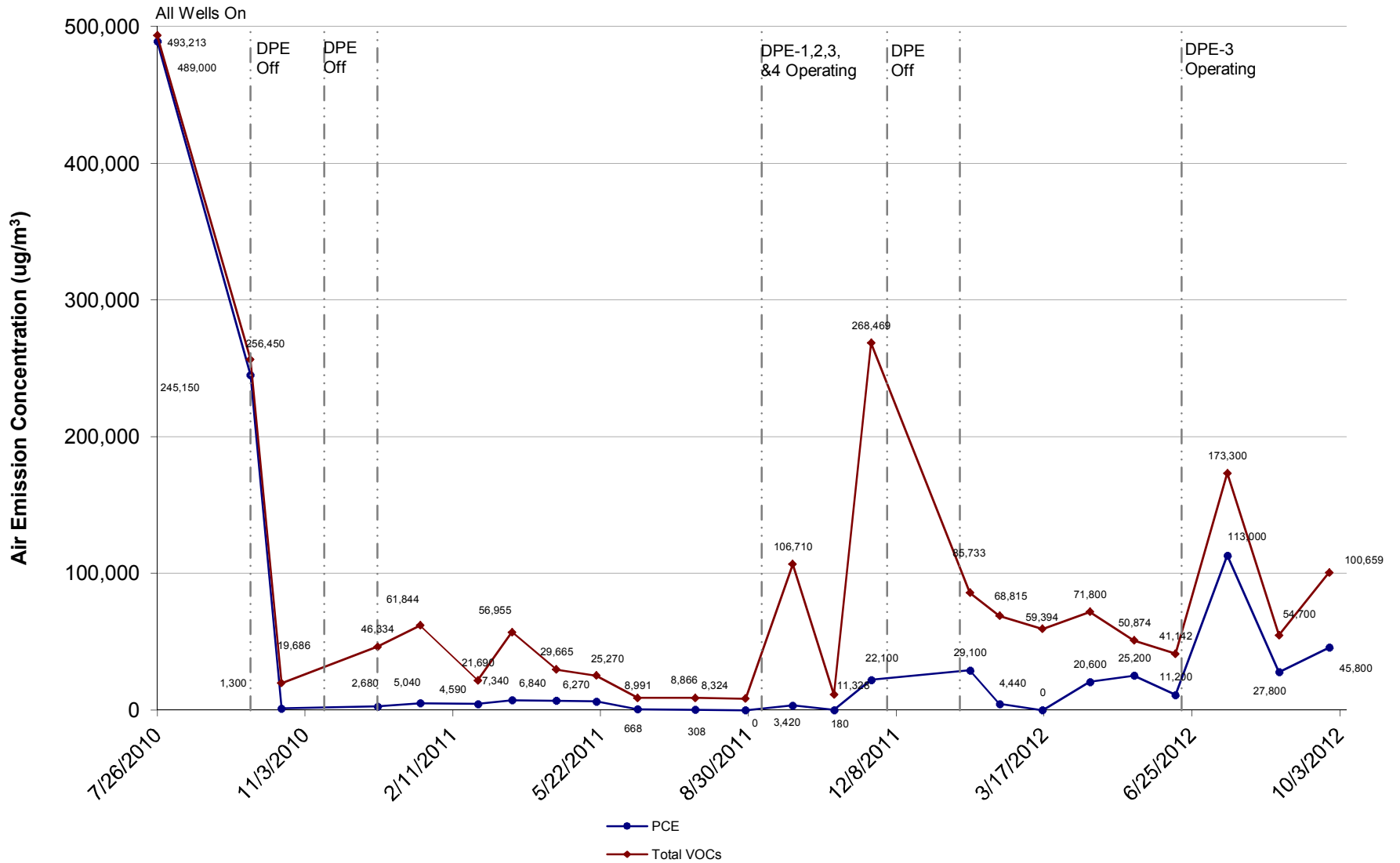


FIGURE 5

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

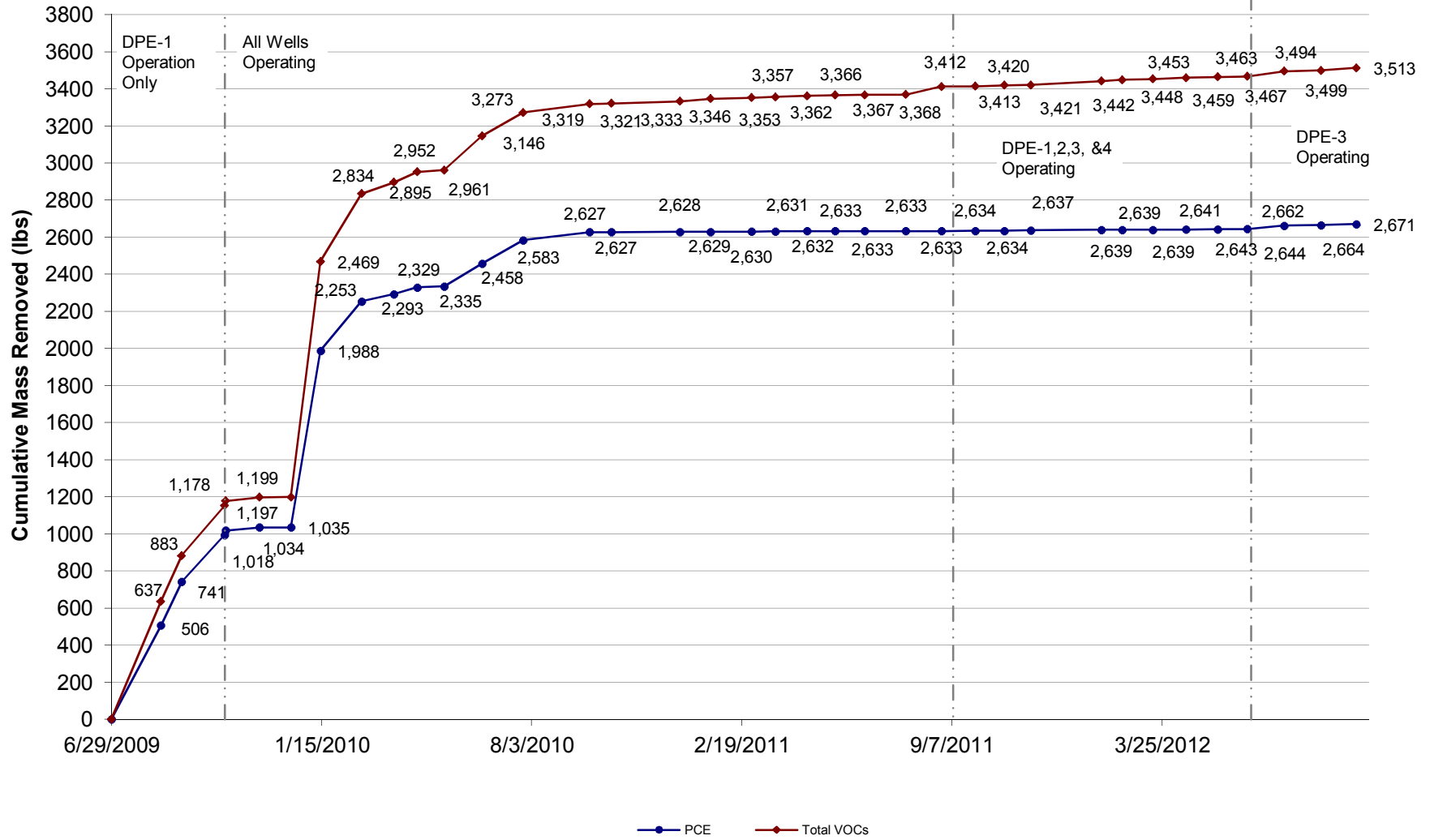


FIGURE 6

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

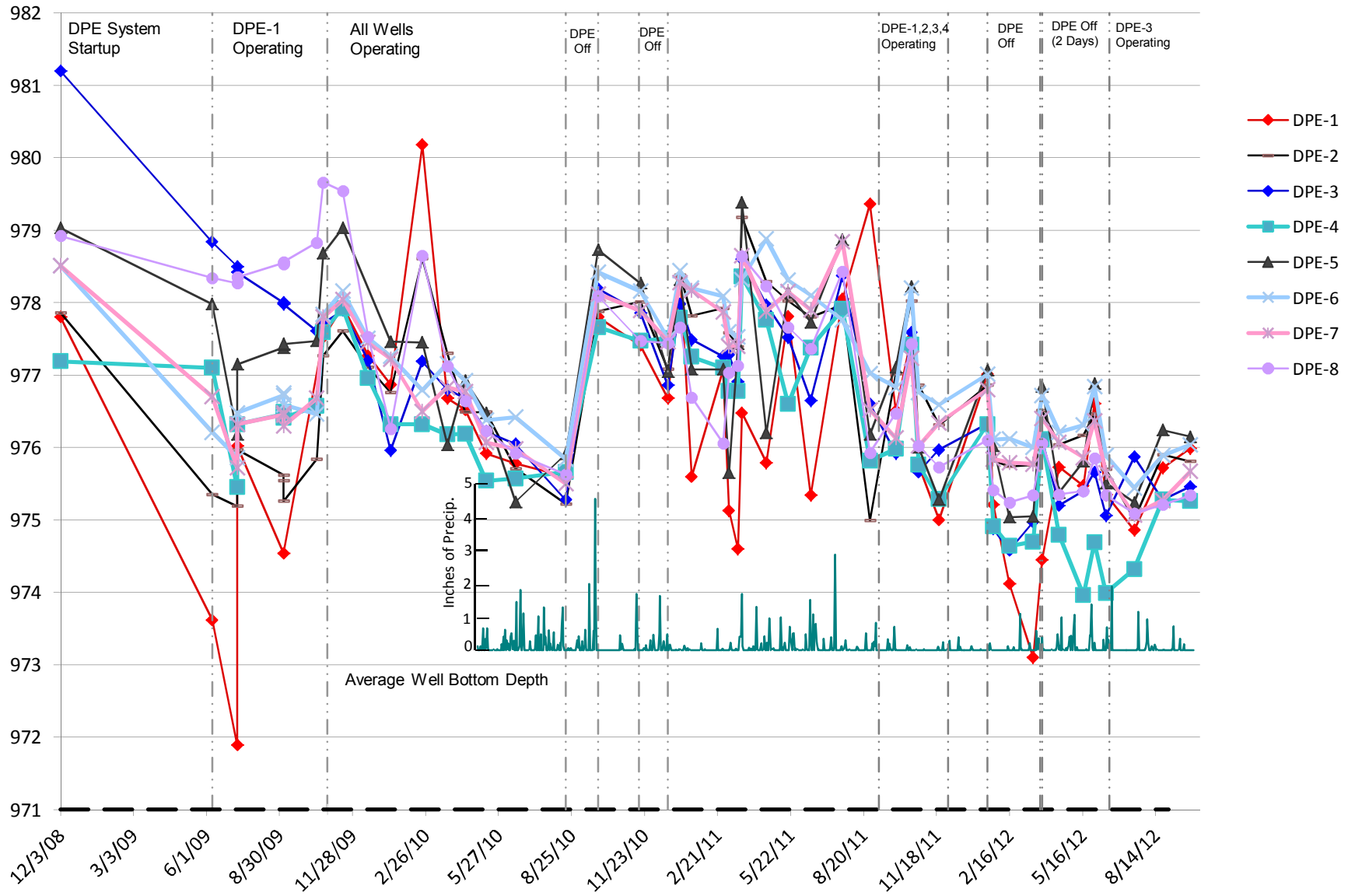
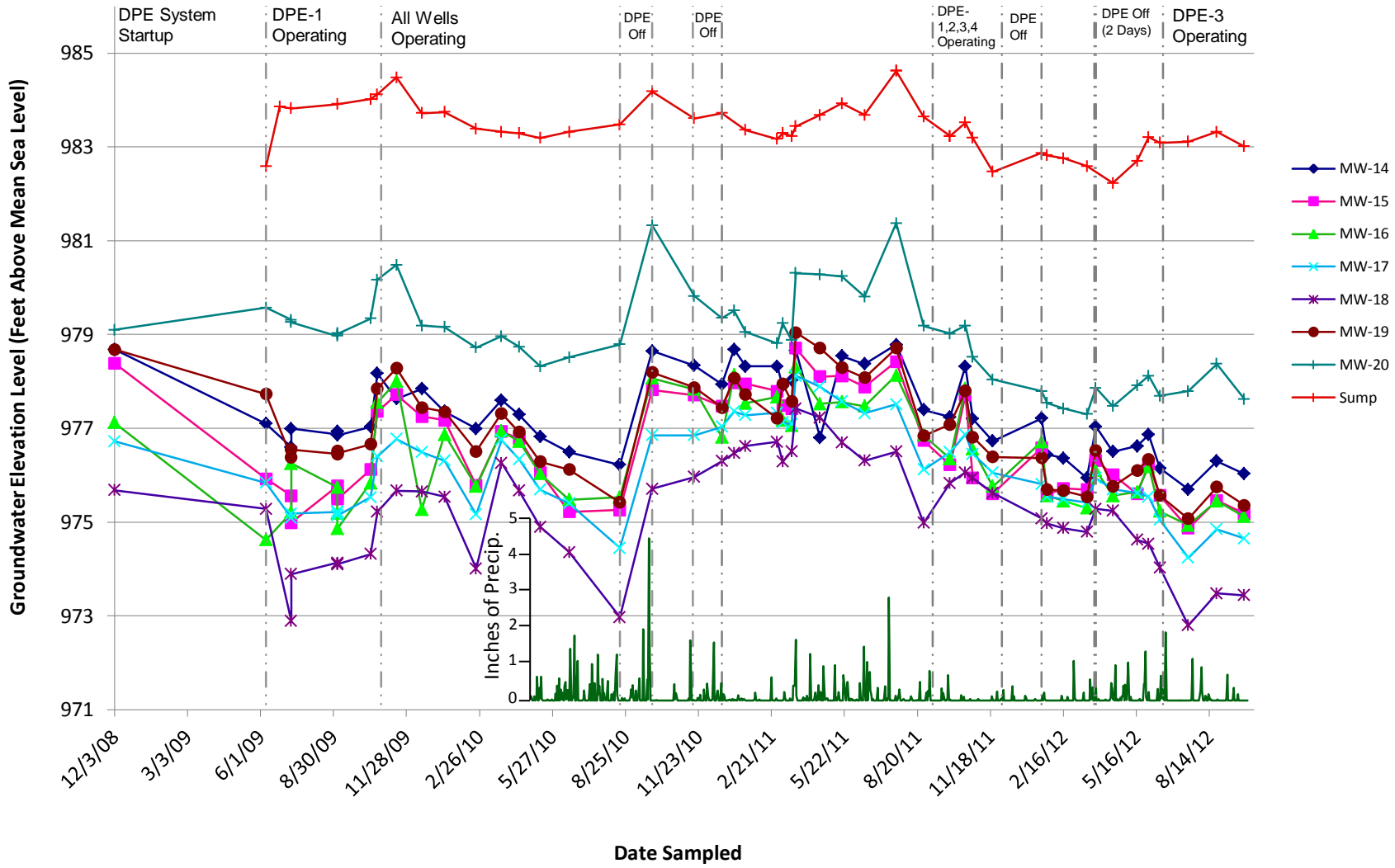
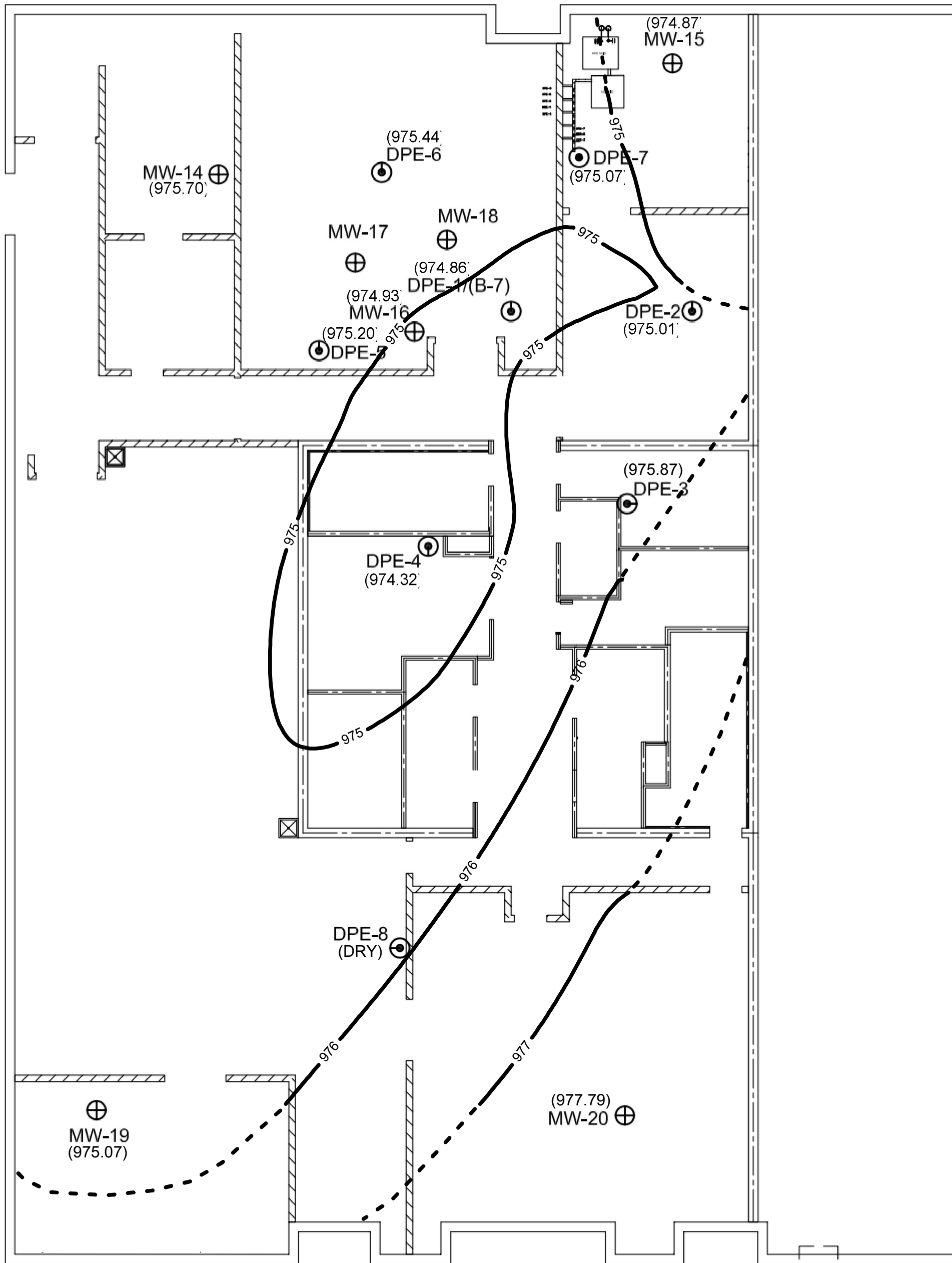


FIGURE 7

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





LEGEND

- ⊙ DPE Well Location
- ⊕ Monitoring Well Locator

(976.92) Groundwater Elevation (feet above mean sea level)

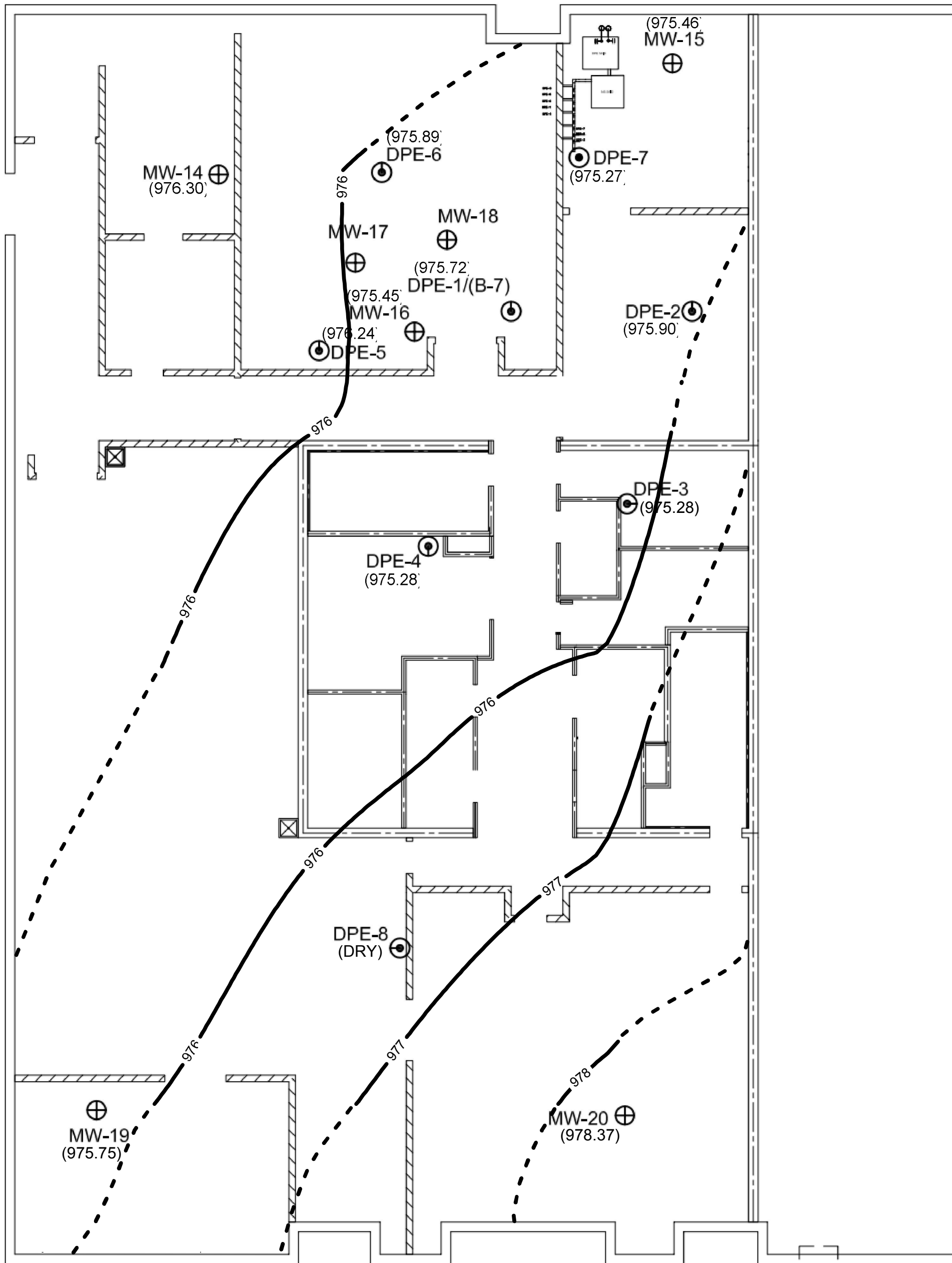
1. MW-17 and 18 are not shallow wells; therefore, the data from these wells was not used in the contouring calculations.



10 feet
SCALE

BASE DRAWING PROVIDED BY HGA

<table border="1"> <thead> <tr> <th>Rev</th> <th>Date</th> <th>By</th> <th>Description</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	Rev	Date	By	Description													<p>LANDMARK ENVIRONMENTAL, LLC 2042 West 98th Street Bloomington, MN 55431</p>	<p>FIGURE 8A GROUNDWATER FLOW INTERPRETATION July 19, 2012</p> <p>221 FIRST AVENUE S.W. ROCHESTER, MINNESOTA</p>			<p>Landmark Project Number: CRC</p>		
	Rev	Date	By	Description																			
<p>Drawn: KAE</p>		<p>Checked: JDS</p>		<p>Designed: JDS</p>																			
<p>Scale: .</p>		<p>Date: 8/23/2012</p>		<p>Revision:</p>																			
<p>Drawing Number: .</p>				<p>Sheet</p>	<p>Of</p>	<p>Sheets</p>																	



LEGEND

- ⊙ DPE Well Location
- ⊕ Monitoring Well Locator

(976.92) Groundwater Elevation (feet above mean sea level)

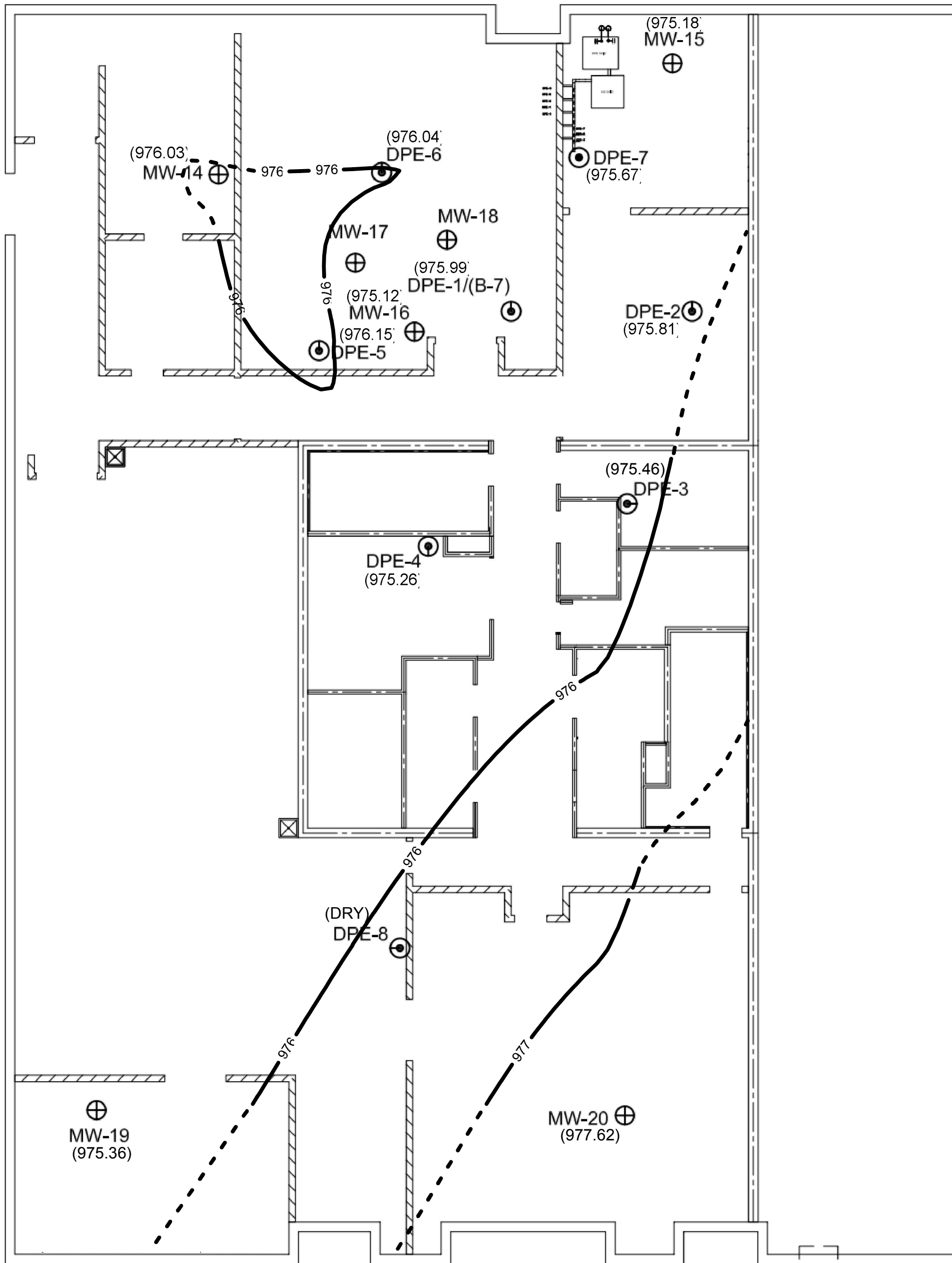
1. MW-17 and 18 are not shallow wells; therefore, the data from these wells was not used in the contouring calculations.



10 feet
SCALE

BASE DRAWING PROVIDED BY HGA

Rev	Date	By	Description	LANDMARK ENVIRONMENTAL, LLC 2042 West 98th Street Bloomington, MN 55431	FIGURE 8E GROUNDWATER FLOW INTERPRETATION August 23, 2012 221 FIRST AVENUE S.W ROCHESTER, MINNESOTA	Landmark Project Number: CRC			
						Drawn: KAE	Checked: JDS	Designed: JDS	
						Scale: .	Date: 8/23/2012	Revision:	
						Drawing Number: .	Sheet	Of	Sheets



LEGEND

- ⊙ DPE Well Location
- ⊕ Monitoring Well Locator

(976.92) Groundwater Elevation (feet above mean sea level)

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 8C GROUNDWATER FLOW INTERPRETATION September 26, 2012 221 FIRST AVENUE S.W ROCHESTER, MINNESOTA		Landmark Project Number: CRC		
						Drawn: KAE	Checked: JDS	Designed: JDS		
						Scale: .	Date: .10/15/2012	Revision:		
						Drawing Number: .		Sheet	Of	Sheets

FIGURE 9A

PCE CONCENTRATIONS IN GROUNDWATER
December 2008 to Present
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

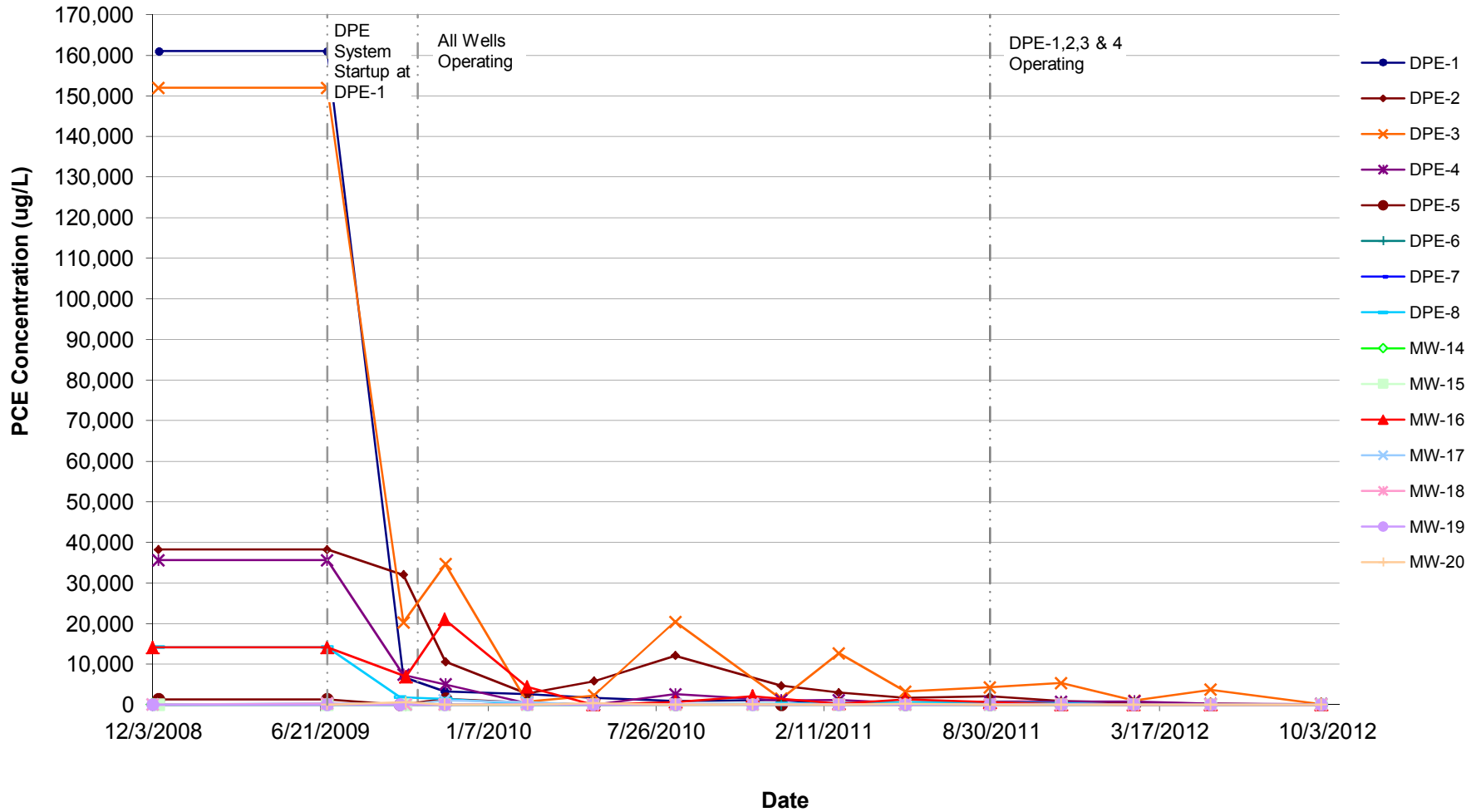
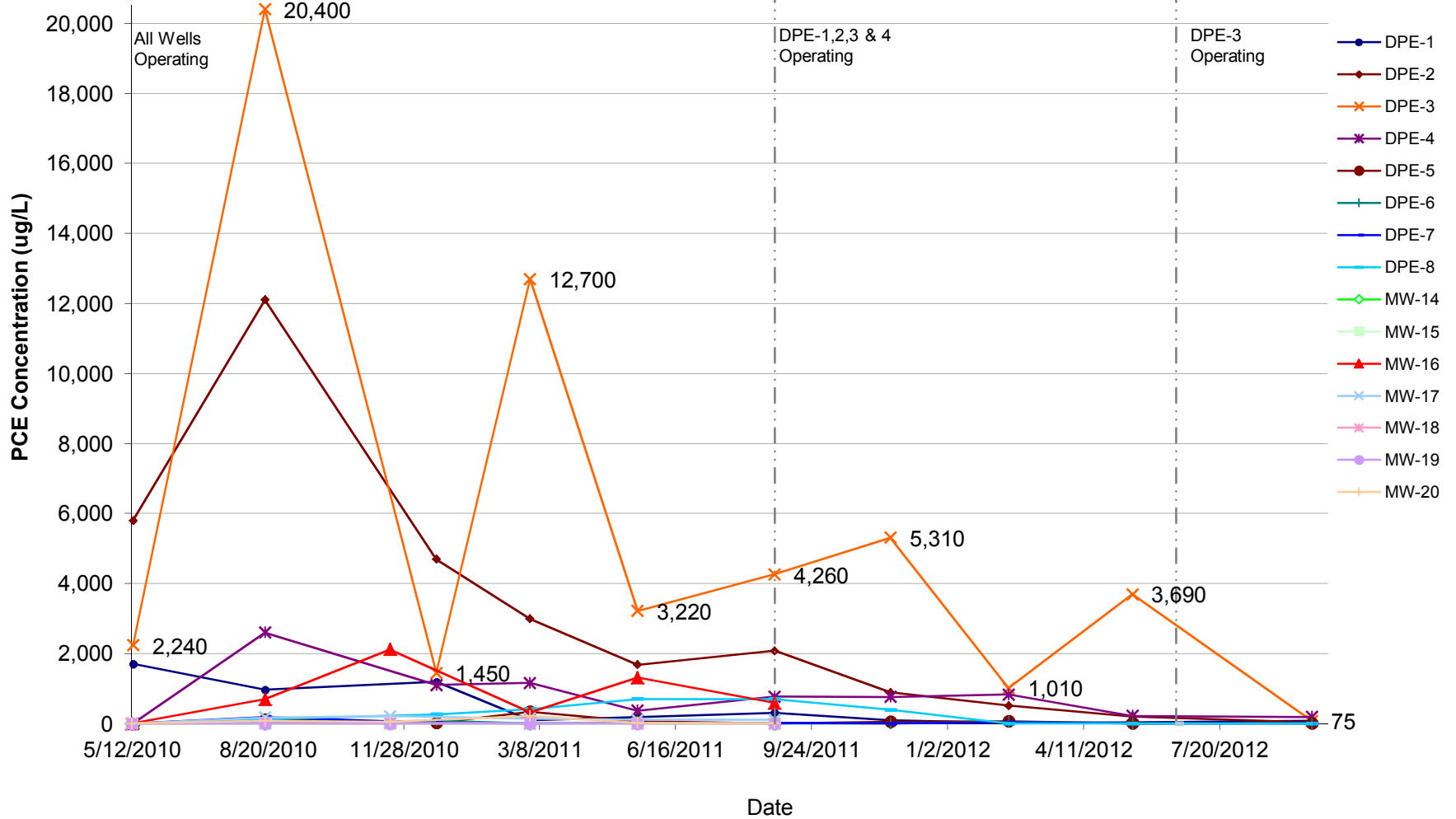
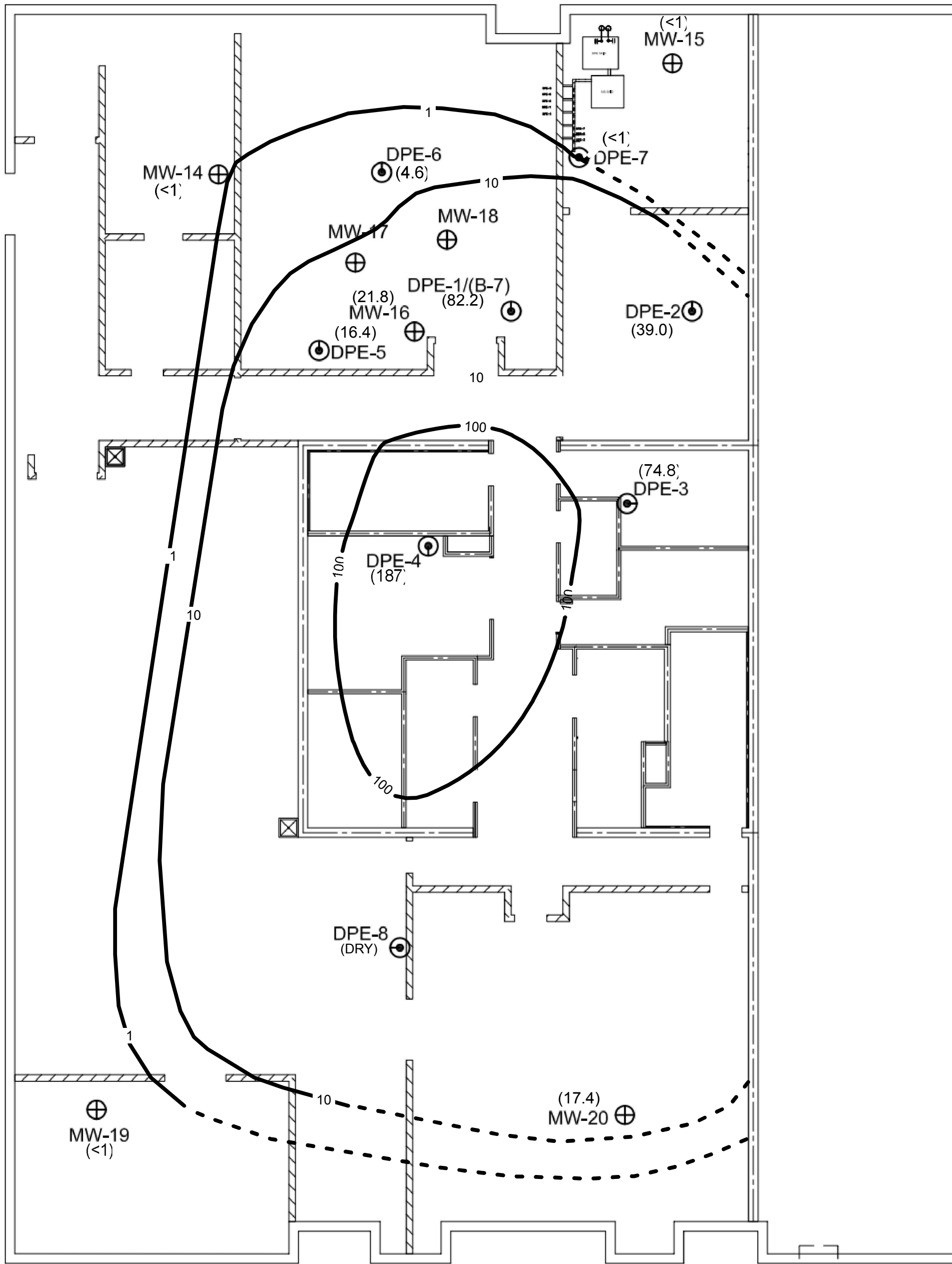


FIGURE 9B

PCE CONCENTRATIONS IN GROUNDWATER
 May 2010 to Present
 MN Bio Business Center
 221 1st Avenue SW
 Rochester, Minnesota





LEGEND

- ⊙ DPE Well Locator
- ⊕ Monitoring Well Locator
- (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
September 26, 2012
221 FIRST AVENUE S.W.
ROCHESTER, MINNESOTA

Landmark Project Number: CRC		
Drawn: KAE	Checked: JDS	Designed: JDS
Scale: .	Date: 10/26/2012	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 sensophone. 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 and 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 and 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 sensaphone 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.
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 as well as quarterly groundwater 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	
27-Jul-11	9:00	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event . Landmark also changed oil at 14,169 hours and installed new transfer pump stator as well as cleaned floats..

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-Aug-11	11:00	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event . Landmark also changed oil at 14,962 hours and installed new transfer pump stator as well as rebuilt DPE-1 solenoid valve.
8-Sep-11	15:18	NA	NA	On	Landmark changed the operational configuration to focus operation on DPE-1, DPE_2, DPE-3, and DPE-4.
29-Sep-11	11:40	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event as well as quarterly groundwater sampling event . Landmark also changed oil at 15,722 hours and installed new moisture separator filters (both 1 micron).
2-Oct-11	14:11	Y	Air Stripper High High Level	On/Off	
4-Oct-11	10:46	NA	NA	Off	Landmark onsite to troubleshoot system alarm. Air stripper floats cleaned. Landmark cleaned moisture separator floats at MS-1 and noticed the bottom float was causing the transfer pump to operate continuously. Hunt Electric onsite to troubleshoot MS-1 float issues and confirmed the bottom reed of the tri-level float assembly was causing electrical connection in any float position. Hunt checked wiring from the tri-level assembly to the panel and found no issues.
11-Oct-11	12:28	NA	NA	Off	Landmark onsite replace the tri-level float switch for MS-1 and replace the transfer pump stator. The low float on the tri-level switch was 1/2-inch lower than previous switch and was allowing air through the transfer pump, preventing the low float from shutting down the transfer pump. The tri-level switch was returned to PLC to be rebuilt. Therefore the system could not be restarted.
18-Oct-11	10:00	NA	NA	Off/On	Landmark onsite to install a new float switch assembly for MS-1. System restarted.
27-Oct-11	8:00	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event . Landmark also changed oil at 16,013 hours.
21-Nov-11	11:00	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event . Landmark also changed oil at 16,619 hours.
2-Dec-11	8:52	Y	Lo Inlet Vacuum	On/Off	DPE system shut down due to a low inlet vacuum alarm. Paramark inspected the DPE pump and observed an oil leak from the DPE pump.
12-Dec-11	13:00	NA	NA	Off	Landmark and JHF onsite to remove the DPE pump for repair.
21-Dec-11	11:00	NA	NA	Off	Landmark onsite to collect sump water sample and inspect corrosion on elevator support buckets.
20-Jan-12	8:00	NA	NA	Off/On	Landmark and JHF onsite to reinstall the DPE pump and restart the DPE system.
27-Jan-12	9:00	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event .
16-Feb-12	9:00	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event as well as quarterly groundwater sampling event . Landmark also changed oil at 17,520 hours.
16-Mar-12	11:00	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event . Landmark also changed oil at 18,219 hours.

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
25-Mar-12	19:58	Y	Air Stripper High High Level	On/Off	
27-Mar-12	7:00	Y	Air Stripper High High Level	Off/On	Landmark onsite to clean the air stripper floats. System restarted.
17-Apr-12	10:25	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event . Landmark also changed oil at 18,964 hours.
17-May-12	10:00	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event as well as quarterly groundwater sampling event . Solenoid for DPE-3 faulty and taken off-line. Landmark also changed oil at 19,660 hours.
31-May-12	10:59	NA	NA	On	Landmark onsite and replaced solenoid bonnet for DPE-2 and DPE-3, and inner seal on DPE-1. Landmark also changed oil at 19,950 hours.
14-Jun-12	10:17	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event . Landmark also changed oil at 20,279 hours.
18-Jun-12	14:18	NA	NA	On	Landmark changed the DPE operational configuration from operating at DPE-1, DPE-2, DPE-3, and DPE-4 to operation of only DPE-3.
19-Jul-12	11:11	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event . Conducted troubleshooting of MS#1 and MS#2 pressure drop. Replaced DPE#3 solenoid components. Landmark also changed oil at 21,119 hours.
23-Aug-12	7:30	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event . Conducted troubleshooting of MS#1 and MS#2 pressure drop. Landmark also changed oil at 21,872 hours.
26-Sep-12	20:12	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event as well as quarterly groundwater sampling event . Pressure drop issue determined to be clogged demister pad from MS#2. Landmark also changed oil at 22,695 hours.

NA: Not Applicable.

Y: Yes.

N: No.

TABLE 1

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

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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 sensophone. 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.

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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 and 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 and 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.

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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 sensaphone sound alarm, and remove sediment from the primary moisture separator (MS1).

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

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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.
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.

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221 1st Avenue SW
Rochester, Minnesota

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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.

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221 1st Avenue SW
Rochester, Minnesota

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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 as well as quarterly groundwater 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	
27-Jul-11	9:00	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event . Landmark also changed oil at 14,169 hours and installed new transfer pump stator as well as cleaned floats..

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

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28-Aug-11	11:00	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event . Landmark also changed oil at 14,962 hours and installed new transfer pump stator as well as rebuilt DPE-1 solenoid valve.
8-Sep-11	15:18	NA	NA	On	Landmark changed the operational configuration to focus operation on DPE-1, DPE_2, DPE-3, and DPE-4.
29-Sep-11	11:40	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event as well as quarterly groundwater sampling event . Landmark also changed oil at 15,722 hours and installed new moisture separator filters (both 1 micron).
2-Oct-11	14:11	Y	Air Stripper High High Level	On/Off	
4-Oct-11	10:46	NA	NA	Off	Landmark onsite to troubleshoot system alarm. Air stripper floats cleaned. Landmark cleaned moisture separator floats at MS-1 and noticed the bottom float was causing the transfer pump to operate continuously. Hunt Electric onsite to troubleshoot MS-1 float issues and confirmed the bottom reed of the tri-level float assembly was causing electrical connection in any float position. Hunt checked wiring from the tri-level assembly to the panel and found no issues.
11-Oct-11	12:28	NA	NA	Off	Landmark onsite replace the tri-level float switch for MS-1 and replace the transfer pump stator. The low float on the tri-level switch was 1/2-inch lower than previous switch and was allowing air through the transfer pump, preventing the low float from shutting down the transfer pump. The tri-level switch was returned to PLC to be rebuilt. Therefore the system could not be restarted.
18-Oct-11	10:00	NA	NA	Off/On	Landmark onsite to install a new float switch assembly for MS-1. System restarted.
27-Oct-11	8:00	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event . Landmark also changed oil at 16,013 hours.
21-Nov-11	11:00	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event . Landmark also changed oil at 16,619 hours.
2-Dec-11	8:52	Y	Lo Inlet Vacuum	On/Off	DPE system shut down due to a low inlet vacuum alarm. Paramark inspected the DPE pump and observed an oil leak from the DPE pump.
12-Dec-11	13:00	NA	NA	Off	Landmark and JHF onsite to remove the DPE pump for repair.
21-Dec-11	11:00	NA	NA	Off	Landmark onsite to collect sump water sample and inspect corrosion on elevator support buckets.
20-Jan-12	8:00	NA	NA	Off/On	Landmark and JHF onsite to reinstall the DPE pump and restart the DPE system.
27-Jan-12	9:00	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event .
16-Feb-12	9:00	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event as well as quarterly groundwater sampling event . Landmark also changed oil at 17,520 hours.
16-Mar-12	11:00	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event . Landmark also changed oil at 18,219 hours.

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

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25-Mar-12	19:58	Y	Air Stripper High High Level	On/Off	
27-Mar-12	7:00	Y	Air Stripper High High Level	Off/On	Landmark onsite to clean the air stripper floats. System restarted.
17-Apr-12	10:25	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event . Landmark also changed oil at 18,964 hours.
17-May-12	10:00	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event as well as quarterly groundwater sampling event . Solenoid for DPE-3 faulty and taken off-line. Landmark also changed oil at 19,660 hours.
31-May-12	10:59	NA	NA	On	Landmark onsite and replaced solenoid bonnet for DPE-2 and DPE-3, and inner seal on DPE-1. Landmark also changed oil at 19,950 hours.
14-Jun-12	10:17	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event . Landmark also changed oil at 20,279 hours.
18-Jun-12	14:18	NA	NA	On	Landmark changed the DPE operational configuration from operating at DPE-1, DPE-2, DPE-3, and DPE-4 to operation of only DPE-3.
19-Jul-12	11:11	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event . Conducted troubleshooting of MS#1 and MS#2 pressure drop. Replaced DPE#3 solenoid components. Landmark also changed oil at 21,119 hours.
23-Aug-12	7:30	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event . Conducted troubleshooting of MS#1 and MS#2 pressure drop. Landmark also changed oil at 21,872 hours.
26-Sep-12	20:12	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event as well as quarterly groundwater sampling event . Pressure drop issue determined to be clogged demister pad from MS#2. Landmark also changed oil at 22,695 hours.

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 ¹	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	548	0.10	2,834.37	215,000	39.54	2292.96
3/25/2010	4/16/2010	All Wells	5308	440	77.9	331,284	42.57	2,876.93	282,000	36.23	2329.19
4/16/2010	5/12/2010	All Wells	5908	600	86.9	438,730	85.73	2,962.66	27,900	5.45	2334.64
5/12/2010	6/17/2010	All Wells	6768	860	55.6	50,553	9.06	2,971.72	689,000	123.50	2458.14
6/17/2010	7/26/2010	All Wells	7671	903	75.6	1,032,070	264.11	3,235.83	489,000	125.14	2583.28
7/26/2010	9/27/2010 ⁸	All Wells	8222	551	86.8	493,213	88.42	3,324.25	245,150	43.95	2627.23
9/27/2010	10/18/2010	All Wells	8662	440	77.4	246,881	31.52	3,355.77	1,300	0.17	2627.39
10/18/2010	12/22/2010	All Wells	9378	716	94.1	19,686	4.97	3,360.74	2,680	0.68	2628.07
12/22/2010	1/20/2011	All Wells	10034	656	88.0	46,334	10.03	3,370.77	5,040	1.09	2629.16
1/20/2011	2/28/2011	All Wells	10969	935	83.1	61,844	18.02	3,388.79	4,590	1.34	2630.50
2/28/2011	3/23/2011	All Wells	11277	308	64.8	21,690	1.62	3,390.41	7,340	0.55	2631.05
3/23/2011	4/22/2011	All Wells	11995	718	65.8	56,955	10.08	3,400.49	6,840	1.21	2632.26
4/22/2011	5/19/2011	All Wells	12645	650	61.3	29,665	4.43	3,404.92	6,270	0.94	2633.19
5/19/2011	6/16/2011	All Wells	13314	669	56.4	25,270	3.57	3,408.49	668	0.09	2633.29
6/16/2011	7/25/2011	All Wells	14169	855	59.5	8,991	1.71	3,410.20	308	0.06	2633.35
7/25/2011	8/28/2011	All Wells	14962	793	68.7	8,866	1.81	3,412.01	0	0.00	2633.35
8/28/2011	9/29/2011	DPE-1, 2, 3, & 4	15722	760	59.9	8,324	1.42	3,413.44	3,420	0.58	2633.93
9/29/2011	10/27/2011	DPE-1, 2, 3, & 4	16013	291	52.3	106,710	6.09	3,419.52	180	0.01	2633.94
10/27/2011	11/21/2011	DPE-1, 2, 3, & 4	16619	606	57.6	11,328	1.48	3,421.01	22,100	2.89	2636.83
11/21/2011	1/27/2012	DPE-1, 2, 3, & 4	17042	423	49.1	268,469	20.90	3,441.91	29,100	2.27	2639.10
1/27/2012	2/16/2012	DPE-1, 2, 3, & 4	17520	478	39.9	85,733	6.13	3,448.04	4,440	0.32	2639.41
2/16/2012	3/16/2012	DPE-1, 2, 3, & 4	18219	699	34.0	59,394	5.29	3,453.33	0	0.00	2639.41
3/16/2012	4/17/2012	DPE-1, 2, 3, & 4	18964	745	29.2	71,800	5.86	3,459.18	20,600	1.68	2641.09
4/17/2012	5/17/2012	DPE-1, 2, 3, & 4	19660	696	32.3	50,874	4.29	3,463.47	25,200	2.12	2643.22
5/17/2012	6/14/2012	DPE-1, 2, 3, & 4	20279	619	38.5	41,142	3.68	3,467.15	11,200	1.00	2644.22
6/14/2012	7/19/2012	DPE-3	21119	840	49.2	173,300	26.85	3,493.99	113,000	17.51	2661.72
7/19/2012	8/23/2012	DPE-3	21872	753	33.3	54,700	5.14	3,499.13	27,800	2.61	2664.34
8/23/2012	9/26/2012	DPE-3	22695	823	45.9	100,659	14.25	3,513.39	45,800	6.49	2670.82

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 baselining 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 0795	DPE-EXHAUST 2048	DPE-EXHAUST 1660	DPE-EXHAUST 0558	DPE-EXHAUST 0361	DPE-EXHAUST 1071
Wells Operating	DPE3	DPE-3	DPE-3	DPE-1,2,3 & 4	DPE-1,2,3 & 4	DPE-1,2,3 & 4
Sample Collection Method	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite
Collected Date	9/26/2012	8/23/2012	7/19/2012	6/14/2012	5/17/2012	4/17/2012
1,1,1-Trichloroethane	<298	<478	<1100	<341	13.1	<357
1,1,2,2-Tetrachloroethane	<188	<300	<692	<214	<1.2	<224
1,1,2-Trichloroethane	<148	<237	<546	<169	<0.92	<177
1,1,2-Trichlorotrifluoroethane	34800	26900	60300	29200	25500	51200
1,1-Dichloroethane	<220	<353	<813	<252	<1.4	<264
1,1-Dichloroethene	<218	<349	<804	<249	<1.4	<260
1,2,4-Trichlorobenzene	<406	<650	<1500	<304	<1.7	<318
1,2,4-Trimethylbenzene	<269	<430	<991	<307	2.2	<321
1,2-Dibromoethane (EDB)	<419	<671	<1550	<479	<2.6	<502
1,2-Dichlorobenzene	<328	<525	<1210	<375	<2.0	<392
1,2-Dichloroethane	<110	<176	<407	<126	<0.69	<132
1,2-Dichloropropane	<253	<405	<932	<289	<1.6	<302
1,3,5-Trimethylbenzene	<269	<430	<991	<307	<1.7	<321
1,3-Butadiene	<121	<194	<446	<138	<0.76	<145
1,3-Dichlorobenzene	<328	<525	<1210	<375	<2.0	<392
1,4-Dichlorobenzene	<328	<525	<1210	<375	<2.0	<392
2-Butanone (MEK)	<161	<258	<595	<184	<1.0	<193
2-Hexanone	<223	<357	<823	<255	<1.4	<267
2-Propanol	<134	<215	<496	<768	<4.2	<804
4-Ethyltoluene	<269	<430	<992	<307	<1.7	<322
4-Methyl-2-pentanone (MIBK)	<223	<357	<823	<255	<1.4	<267
Acetone	169	<207	<476	<147	16.6	<154
Benzene	<87.4	<140	<322	<99.8	<0.55	<105
Benzyl chloride	<282	<452	<1040	<323	<1.8	<338
Bromodichloromethane	<366	<585	<1350	<418	<2.3	<437
Bromoform	<564	<904	<2080	<645	<3.5	<675
Bromomethane	<212	<340	<784	<243	<1.3	<254
Carbon disulfide	<169	<271	<625	<194	<1.1	<203
Carbon tetrachloride	<172	<275	<635	<197	<1.1	<206
Chlorobenzene	<253	<405	<932	<289	<1.6	<302
Chloroethane	<145	<232	<536	<166	<0.91	<174
Chloroform	<266	<426	<982	<304	<1.7	<318
Chloromethane	<113	<181	<417	<129	<0.71	<135
cis-1,2-Dichloroethene	<218	<349	<804	<249	34.8	<260
cis-1,3-Dichloropropene	<247	<396	<913	<283	<1.5	<296
Cyclohexane	<188	<301	<694	<209	<1.1	<219
Dibromochloromethane	<465	<745	<1720	<531	<2.9	<556
Dichlorodifluoromethane	<271	<435	<1000	<310	1.8	<325
Dichlorotetrafluoroethane	<382	<611	<1410	<436	<2.4	<457
Ethanol	18700	<164	<377	742	51.8	<122
Ethyl acetate	1190	<314	<724	<224	37.6	<235
Ethylbenzene	<237	<379	<873	<270	<1.5	<283
Hexachloro-1,3-butadiene	<591	<947	<2180	<676	<3.7	<708
m&p-Xylene	<473	<758	<1750	<541	<3.0	<566
Methylene Chloride	<191	<306	<704	<218	<1.2	<228
Methyl-tert-butyl ether	<196	<314	<724	<224	<1.2	<235
Naphthalene	<288	<461	<1060	<329	1.8	<344
n-Heptane	<223	<357	<823	<255	<1.4	<267
n-Hexane	<194	<310	<714	<221	1.6	<232
o-Xylene	<237	<379	<873	<270	<1.5	<283
Propylene	<94.1	<151	<347	<108	<0.59	<113
Styrene	<234	<374	<863	<267	<1.5	<280
Tetrachloroethene	45800	27800	113000	11200	25200	20600
Tetrahydrofuran	<161	<258	<595	<184	<1.0	<193
Toluene	<207	<331	<764	<237	3.1	<248
trans-1,2-Dichloroethene	<218	<349	<804	<249	<1.4	<260
trans-1,3-Dichloropropene	<247	<396	<913	<283	<1.5	<296
Trichloroethene	<148	<237	<546	<169	9.6	<177
Trichlorofluoromethane	<306	<491	<1130	<350	<1.9	<367
Vinyl acetate	<192	<308	<710	<218	<1.2	<228
Vinyl chloride	<69.9	<112	<258	<79.9	<0.44	<83.6
TOTAL VOCs	100,659	54,700	173,300	41,142	50,874	71,800

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 1637	DPE-EXHAUST 1289	DPE-EXHAUST 1250	DPE-EXHAUST 1627	DPE-EXHAUST 1105251-01
Wells Operating	DPE-1,2,3 & 4	DPE-1,2,3 & 4	DPE-1,2,3 & 4	DPE-1,2,3 & 4	DPE-1,2,3 & 4
Sample Collection Method	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite
Collected Date	3/16/2012	2/16/2012	1/27/2012	11/21/2011	10/27/2011
1,1,1-Trichloroethane	<682	<567	51	<260	<14
1,1,2,2-Tetrachloroethane	<429	<360	<1.3	<165	<17
1,1,2-Trichloroethane	<338	<283	<1.1	<130	<14
1,1,2-Trichlorotrifluoroethane	58500	60400	56,100	244,000	11,000
1,1-Dichloroethane	<504	<422	<1.6	<194	<10
1,1-Dichloroethene	<498	<417	<1.6	<192	<10
1,2,4-Trichlorobenzene	<608	<510	<1.9	<234	<18
1,2,4-Trimethylbenzene	<614	<515	5.6	<237	<4.9
1,2-Dibromoethane (EDB)	<958	<824	<3.1	<379	<19
1,2-Dichlorobenzene	<750	<618	<2.3	<284	<15
1,2-Dichloroethane	<252	<211	<0.79	<97.1	<10
1,2-Dichloropropane	<578	484	<1.8	<223	<12
1,3,5-Trimethylbenzene	<614	<515	<1.9	<237	<4.9
1,3-Butadiene	<276	<232	<0.86	<107	<5.5
1,3-Dichlorobenzene	<750	<618	<2.3	<284	<15
1,4-Dichlorobenzene	<750	<618	5.4	<284	<15
2-Butanone (MEK)	<369	<309	5.2	343	11
2-Hexanone	<510	<428	<1.6	<197	<10
2-Propanol	<1540	<1290	17.5	<592	16
4-Ethyltoluene	<614	<1290	<4.8	<592	<12
4-Methyl-2-pentanone (MIBK)	<510	<428	<1.6	<197	<10
Acetone	<295	<247	43.6	693	25
Benzene	<200	<167	1.4	<77.0	<3.2
Benzyl chloride	<645	<541	<2.0	<249	<13
Bromodichloromethane	<836	<721	<2.7	<332	<17
Bromoform	<1290	<1080	<4.0	<497	<26
Bromomethane	<485	<407	<1.5	<187	<9.5
Carbon disulfide	<387	<325	<1.2	<149	<8.0
Carbon tetrachloride	<393	<330	<1.2	<152	<16
Chlorobenzene	<578	484	<1.8	<223	<12
Chloroethane	<332	<278	<1.0	<128	<6.5
Chloroform	<608	<510	10.3	<234	<12
Chloromethane	<258	<216	<0.81	<99.5	<5.0
cis-1,2-Dichloroethene	<498	<417	80	262	<10
cis-1,3-Dichloropropene	<565	<474	<1.8	<218	<12
Cyclohexane	<418	<350	<1.3	<161	<8.5
Dibromochloromethane	<1060	<876	<3.3	<403	<22
Dichlorodifluoromethane	<621	<515	<1.9	<237	<12
Dichlorotetrafluoroethane	<872	<721	<2.7	<332	<18
Ethanol	894	<979	249	777	81
Ethyl acetate	<449	<376	<1.4	<173	<9.0
Ethylbenzene	<541	<453	3.1	<208	<4.4
Hexachloro-1,3-butadiene	<1350	<1130	<4.2	<521	<26
m&p-Xylene	<1080	<907	3.9	<417	<8.5
Methylene Chloride	<436	1390	<1.4	<168	15
Methyl-tert-butyl ether	<449	<376	<1.4	<173	<9.0
Naphthalene	<657	<1390	<5.2	<639	<13
n-Heptane	<510	<428	2.9	<197	<10
n-Hexane	<442	585	6.9	<170	<9.0
o-Xylene	<541	<453	2.3	<208	<4.4
Propylene	<215	<180	<0.67	<82.9	<4.3
Styrene	<535	<448	<1.7	<206	<10
Tetrachloroethene	<423	4440	29100	22100	180
Tetrahydrofuran	<369	<309	<1.2	<142	<7.5
Toluene	<473	<397	7.5	<182	<3.8
trans-1,2-Dichloroethene	<498	<417	<1.6	<192	<10
trans-1,3-Dichloropropene	<565	<474	<1.8	<218	<12
Trichloroethene	<338	<283	36.9	294	<14
Trichlorofluoromethane	<700	<567	<2.1	<260	<14
Vinyl acetate	<436	<366	<1.4	<168	<9.0
Vinyl chloride	<160	<134	<0.50	<61.6	<6.5
TOTAL VOCs	59,394	85,733	268,469	11,328	106,710

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 1214	DPE-EXHAUST 0260	DPE-EXHAUST 1571	DPE EXHAUST 0727	DPE EXHAUST 0416
Wells Operating	DPE-1,2,3 & 4	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
Collected Date	9/29/2011	8/28/2011	7/25/2011	6/16/2011	5/19/2011
1,1,1-Trichloroethane	<33.9	<41.4	<39.6	<33.9	<280
1,1,1,2-Tetrachloroethane	<21.5	<26.2	<25.1	<21.5	<178
1,1,2-Trichloroethane	<16.9	<20.7	<19.8	<16.9	<140
1,1,2-Trichlorotrifluoroethane	103,000	8,150	8,250	8,050	19,000
1,1-Dichloroethane	<25.3	<30.8	<29.5	<25.3	<209
1,1-Dichlorobenzene	<24.9	<30.5	<29.2	<24.9	<206
1,2,4-Trichlorobenzene	<30.5	<37.2	<35.6	<30.5	<252
1,2,4-Trimethylbenzene	50.5	<37.6	<36.0	<30.8	<254
1,2-Dibromoethane (EDB)	<49.3	<60.2	<57.6	<49.3	<407
1,2-Dichlorobenzene	<37.0	<45.1	<43.2	<37.0	<305
1,2-Dichloroethane	<12.6	<15.4	<14.8	<12.6	<104
1,2-Dichloropropane	<29.0	<35.3	<33.8	<29.0	<239
1,3,5-Trimethylbenzene	<30.8	<37.6	<36.0	<30.8	<254
1,3-Butadiene	<13.9	<16.9	<16.2	<13.9	<114
1,3-Dichlorobenzene	<37.0	<45.1	<43.2	<37.0	<305
1,4-Dichlorobenzene	<37.0	<45.1	<43.2	<37.0	<305
2-Butanone (MEK)	80.1	<22.6	27.1	<18.5	<153
2-Hexanone	<25.6	<31.2	<29.9	<25.6	<211
2-Propanol	<77.0	<94.0	<90.0	<77.0	<636
4-Ethyltoluene	<77.0	<94.0	<90.0	<77.0	<636
4-Methyl-2-pentanone (MIBK)	<25.6	<31.2	<29.9	<25.6	<211
Acetone	58.3	53.1	83.1	72.5	<122
Benzene	<10.0	<12.2	<11.7	<10.0	<82.7
Benzyl chloride	<32.3	<39.5	<37.8	<32.3	<267
Bromodichloromethane	<43.1	<52.6	<50.4	<43.1	<356
Bromoform	<64.7	<79.0	<75.6	<64.7	<534
Bromomethane	<24.3	<29.7	<28.4	<24.3	<201
Carbon disulfide	<19.4	<23.7	<22.7	<19.4	<160
Carbon tetrachloride	<19.7	<24.1	<23.0	<19.7	<163
Chlorobenzene	<29.0	<35.3	<33.8	<29.0	<239
Chloroethane	<16.6	<20.3	<19.4	<16.6	<137
Chloroform	<30.5	<37.2	<35.6	<30.5	<252
Chloromethane	<12.9	<15.8	<15.1	<12.9	<107
cis-1,2-Dichloroethene	49.1	<30.5	<29.2	<24.9	<206
cis-1,3-Dichloropropene	<28.3	<34.6	<33.1	<28.3	<234
Cyclohexane	<20.9	<25.6	<24.5	<20.9	<173
Dibromochloromethane	<52.4	<63.9	<61.2	<52.4	<432
Dichlorodifluoromethane	<30.8	<37.6	<36.0	<30.8	<254
Dichlorotetrafluoroethane	<43.1	<52.6	<50.4	<43.1	<356
Ethanol	<58.5	121	198	201	<483
Ethyl acetate	<22.5	<27.4	<26.3	<22.5	<186
Ethylbenzene	<27.1	<33.1	<31.7	<27.1	<224
Hexachloro-1,3-butadiene	<67.8	<82.7	<79.2	<67.8	<560
m&p-Xylene	<54.2	<66.2	<63.4	<54.2	<448
Methylene Chloride	<21.9	<26.7	<25.6	<21.9	<181
Methyl-tert-butyl ether	<22.5	<27.4	<26.3	<22.5	<186
Naphthalene	<83.2	<102	<97.2	<83.2	<687
n-Heptane	<25.6	<31.2	<29.9	<25.6	<211
n-Hexane	<22.2	<27.1	<25.9	<22.2	<183
o-Xylene	<27.1	<33.1	<31.7	<27.1	<224
Propylene	<10.8	<13.2	<12.6	<10.8	<89.0
Styrene	<26.8	<32.7	<31.3	<26.8	<221
Tetrachloroethene	3420	<25.9	308	668	6,270
Tetrahydrofuran	<18.5	<22.6	<21.6	<18.5	<153
Toluene	29.6	<29.0	<27.7	<23.7	<196
trans-1,2-Dichloroethene	<24.9	<30.5	<29.2	<24.9	<206
trans-1,3-Dichloropropene	<28.3	<34.6	<33.1	<28.3	<234
Trichloroethene	22.2	<20.7	<19.8	<16.9	<140
Trichlorofluoromethane	<33.9	<41.4	<39.6	<33.9	<280
Vinyl acetate	<21.9	<26.7	<25.6	<21.9	<181
Vinyl chloride	<8.0	<9.8	<9.4	<8.0	<66.1
TOTAL VOCs	8,324	8,866	8,991	25,270	29,665

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 0514	DPE EXHAUST 1186	DPE EXHAUST 0798	DPE EXHAUST 1513	DPE EXHAUST 0224
Wells Operating	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
Collected Date	4/22/2011	3/23/2011	2/28/2011	1/20/2011	12/23/2010
1,1,1-Trichloroethane	<36.5	<39.6	<140	20.8	45.6
1,1,1,2-Tetrachloroethane	<46.5	<50.4	<88.8	<2.2	<46.5
1,1,2-Trichloroethane	<36.5	<39.6	<70.0	<1.7	<36.5
1,1,2-Trichlorotrifluoroethane	22,600	49,100	17,100	56,200	42,700
1,1-Dichloroethane	<27.2	<29.5	<104	<1.3	<27.2
1,1-Dichloroethene	<26.9	<29.2	<103	<1.3	<26.9
1,2,4-Trichlorobenzene	<32.9	<35.6	<126	<1.6	<32.9
1,2,4-Trimethylbenzene	<33.2	<36.0	<127	3.3	<33.2
1,2-Dibromoethane (EDB)	<53.1	<57.6	<204	<2.5	<53.1
1,2-Dichlorobenzene	<39.8	<43.2	<153	<1.9	<39.8
1,2-Dichloroethane	<27.2	<29.5	<52.2	<1.3	<27.2
1,2-Dichloropropane	<31.2	<33.8	<120	<1.5	<31.2
1,3,5-Trimethylbenzene	<33.2	<36.0	<127	<1.6	<33.2
1,3-Butadiene	<14.9	<16.2	<57.2	<0.72	<14.9
1,3-Dichlorobenzene	<39.8	<43.2	<153	<1.9	<39.8
1,4-Dichlorobenzene	<39.8	<43.2	<153	<1.9	<39.8
2-Butanone (MEK)	<19.9	<21.6	<76.3	41.4	26.9
2-Hexanone	<27.6	<29.9	<106	<1.3	<27.6
2-Propanol	<83.0	<90.0	<318	21.9	<83.0
4-Ethyltoluene	<83.0	<90.0	<318	<4.0	<83.0
4-Methyl-2-pentanone (MIBK)	<27.6	<29.9	<106	8.3	<27.6
Acetone	88.4	25.4	<61.1	29.0	78.0
Benzene	<21.6	<23.4	<41.3	<1.0	<21.6
Benzyl chloride	<34.9	<37.8	<134	<1.7	<34.9
Bromodichloromethane	<46.5	<50.4	<178	<2.2	<46.5
Bromoform	<69.7	<75.6	<267	<3.3	<69.7
Bromomethane	<26.2	<28.4	<100	<1.3	<26.2
Carbon disulfide	<20.9	<22.7	<80.1	<1.0	<20.9
Carbon tetrachloride	<43.2	<46.8	<81.4	<2.1	<43.2
Chlorobenzene	<31.2	<33.8	<120	<1.5	<31.2
Chloroethane	<17.9	<19.4	<68.7	<0.86	<17.9
Chloroform	<32.9	<35.6	<126	4.9	<32.9
Chloromethane	<13.9	<15.1	<53.4	<0.67	<13.9
cis-1,2-Dichloroethene	<26.9	<29.2	<103	36.3	77.3
cis-1,3-Dichloropropene	<30.5	<33.1	<117	<1.5	<30.5
Cyclohexane	<22.6	<24.5	<86.5	<1.1	<22.6
Dibromochloromethane	<56.4	<61.2	<216	<2.7	<56.4
Dichlorodifluoromethane	<33.2	<36.0	<127	<1.6	<33.2
Dichlorotetrafluoroethane	<46.5	<50.4	<178	<2.2	<46.5
Ethanol	137	139	<242	286	726
Ethyl acetate	<24.2	<26.3	<92.9	3.4	<24.2
Ethylbenzene	<29.2	<31.7	<112	2.0	<29.2
Hexachloro-1,3-butadiene	<73.0	<79.2	<280	<3.5	<73.0
m&p-Xylene	<58.4	<63.4	<224	6.9	<58.4
Methylene Chloride	<23.6	310	<90.3	101	<23.6
Methyl-tert-butyl ether	<24.2	<26.3	<92.9	<1.2	<24.2
Naphthalene	<89.6	<97.2	<343	<4.3	<89.6
n-Heptane	<27.6	<29.9	<106	<1.3	<27.6
n-Hexane	<23.9	40.9	<91.6	<1.1	<23.9
o-Xylene	<29.2	<31.7	<112	5.8	<29.2
Propylene	<11.6	<12.6	<44.5	<0.56	<11.6
Styrene	<28.9	<31.3	<111	<1.4	<28.9
Tetrachloroethene	6,840	7,340	4,590	5,040	2,680
Tetrahydrofuran	<19.9	<21.6	<76.3	6.3	<19.9
Toluene	<25.6	<27.7	<97.9	12.3	<25.6
trans-1,2-Dichloroethene	<26.9	<29.2	<103	<1.3	<26.9
trans-1,3-Dichloropropene	<30.5	<33.1	<117	<1.5	<30.5
Trichloroethene	<36.5	<39.6	<70.0	14.8	<36.5
Trichlorofluoromethane	<36.5	<39.6	<140	<1.7	<36.5
Vinyl acetate	<23.6	<25.6	<90.3	<1.1	<23.6
Vinyl chloride	<17.3	<18.7	<33.1	<0.83	<17.3
TOTAL VOCs	56,955	21,690	61,844	46,334	19,686

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 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
Sample Collection Method	6-hr Composite	1/2-hr Composite ¹	6-hr Composite	6-hr Composite	6-hr Composite
Collected Date	10/18/2010	9/27/2010	7/26/2010	6/17/2010	5/12/2010
1,1,1-Trichloroethane	<146	<2.3	<79.2	<760	12.9
1,1,2,2-Tetrachloroethane	<186	<3.0	<101	<968	<2.7
1,1,2-Trichloroethane	<146	<2.3	<79.2	<760	<2.1
1,1,2-Trichlorotrifluoroethane	16,300	9.2	3,720	342,000	21,900
1,1-Dichloroethane	<109	<1.7	<59.0	<567	<1.6
1,1-Dichloroethene	<108	<1.7	<58.3	<560	<1.6
1,2,4-Trichlorobenzene	<131	<2.1	<71.3	<684	<1.9
1,2,4-Trimethylbenzene	153	<5.3	<180	<1730	<4.8
1,2-Dibromoethane (EDB)	<212	<3.4	<115	<1110	<3.1
1,2-Dichlorobenzene	<159	<2.6	<86.4	<829	5.5
1,2-Dichloroethane	<109	<1.7	<59.0	<567	<1.6
1,2-Dichloropropane	<125	<2.0	<67.7	<650	2.5
1,3,5-Trimethylbenzene	<133	<5.3	<180	<1730	<4.8
1,3-Butadiene	<59.8	<0.96	<32.4	<311	<0.87
1,3-Dichlorobenzene	<159	<2.6	<86.4	<829	<2.3
1,4-Dichlorobenzene	<159	<2.6	<86.4	<829	3.7
2-Butanone (MEK)	1,120	12.1	<43.2	<415	18.0
2-Hexanone	<110	<1.8	<59.8	<574	<1.6
2-Propanol	484	9.6	<180	<1730	7.9
4-Ethyltoluene	<332	<5.3	<180	<1730	<4.8
4-Methyl-2-pentanone (MIBK)	<110	<1.8	<59.8	<574	<1.6
Acetone	227	53.9	74.8	<332	509
Benzene	<86.3	<1.4	<46.8	<449	<1.3
Benzyl chloride	<139	<2.2	<1210	<726	<2.0
Bromodichloromethane	<186	<3.0	<101	<968	<2.7
Bromoform	<279	<4.5	<151	<1450	<4.1
Bromomethane	<105	<1.7	<56.9	<546	<1.5
Carbon disulfide	<83.7	<1.3	<45.4	<435	7.7
Carbon tetrachloride	<173	<2.8	<93.6	<899	<2.5
Chlorobenzene	<125	<2.0	<67.7	<650	3.1
Chloroethane	<71.7	<1.2	<38.9	<373	<1.0
Chloroform	<131	<2.1	<71.3	<684	4.9
Chloromethane	<55.8	1.2	<30.2	<290	9.6
cis-1,2-Dichloroethene	<108	<1.7	272	1,070	33.6
cis-1,3-Dichloropropene	<122	<2.0	<66.2	<636	<1.8
Cyclohexane	<90.3	<1.4	<49.0	<470	3.7
Dibromochloromethane	<226	<3.6	<122	<1180	<3.3
Dichlorodifluoromethane	<133	2.6	<72.0	<691	4.1
Dichlorotetrafluoroethane	<186	<3.0	<101	<968	<2.7
Ethanol	<252	48.3	<2190	<1310	67.3
Ethyl acetate	<96.9	<1.6	<52.6	<505	<1.4
Ethylbenzene	<117	<1.9	<63.4	<608	<1.7
Hexachloro-1,3-butadiene	<292	<4.7	<158	<1520	<4.2
m&p-Xylene	<234	<3.7	<127	<1220	5.1
Methylene Chloride	<94.3	294	<51.1	<491	<1.4
Methyl-tert-butyl ether	<96.9	<1.6	<52.6	<505	<1.4
Naphthalene	<359	<5.8	<194	<1870	<5.2
n-Heptane	<110	<1.8	<59.8	<574	2.0
n-Hexane	<95.6	45.9	<51.8	<498	<1.4
o-Xylene	<117	<1.9	<63.4	<608	1.8
Propylene	<46.5	1.3	<25.2	<242	<0.68
Styrene	<116	<1.9	<62.6	<601	<1.7
Tetrachloroethene	1,300	6.5	489,000	689,000	27,900
Tetrahydrofuran	<79.7	<1.3	45.3	<415	15.0
Toluene	102	21.2	<55.4	<532	8.0
trans-1,2-Dichloroethene	<108	<1.7	<58.3	<560	<1.6
trans-1,3-Dichloropropene	<122	<2.0	<66.2	<636	<1.8
Trichloroethene	<146	42.3	101	<760	24.5
Trichlorofluoromethane	<146	<2.3	<79.2	<760	<2.1
Vinyl acetate	<94.3	<1.5	<51.1	<491	3.0
Vinyl chloride	<69.1	<1.1	<37.4	<359	<1.0
TOTAL VOCs	548	493,213	1,032,070	50,553	438,730

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
Wells Operating	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
Collected Date	4/16/2010	3/25/2010	2/22/2010	1/14/2010	12/17/2009
1,1,1-Trichloroethane	ND	30.7	61	ND	23.9
1,1,2,2-Tetrachloroethane	ND	<2.5	ND	ND	ND
1,1,2-Trichloroethane	ND	<2.0	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	153,000	115,000	644,000	2,720,000	4,440
1,1-Dichloroethane	ND	<1.5	ND	ND	ND
1,1-Dichloroethene	ND	3.0	7.66	ND	ND
1,2,4-Trichlorobenzene	ND	<1.8	ND	ND	ND
1,2,4-Trimethylbenzene	ND	12.8	ND	ND	ND
1,2-Dibromoethane (EDB)	ND	<2.9	ND	ND	ND
1,2-Dichlorobenzene	ND	<2.2	ND	ND	ND
1,2-Dichloroethane	ND	<1.5	ND	ND	ND
1,2-Dichloropropane	ND	<1.7	7.05	ND	ND
1,3,5-Trimethylbenzene	ND	<4.5	ND	ND	ND
1,3-Butadiene	ND	<0.81	ND	ND	ND
1,3-Dichlorobenzene	ND	<2.2	ND	ND	ND
1,4-Dichlorobenzene	ND	<2.2	ND	ND	ND
2-Butanone (MEK)	ND	44.2	12.9	ND	ND
2-Hexanone	ND	<1.5	ND	ND	ND
2-Propanol	ND	19.0	NA	NA	NA
4-Ethyltoluene	ND	<4.5	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	ND	<1.5	ND	ND	ND
Acetone	ND	163	84.5	76,800	126
Benzene	ND	<1.2	ND	ND	16.2
Benzyl chloride	ND	<1.9	NA	NA	NA
Bromodichloromethane	ND	<2.5	ND	ND	ND
Bromoform	ND	<3.8	ND	ND	ND
Bromomethane	ND	<1.4	ND	ND	ND
Carbon disulfide	ND	1.3	ND	ND	ND
Carbon tetrachloride	ND	<2.3	ND	ND	ND
Chlorobenzene	ND	<1.7	ND	ND	ND
Chloroethane	ND	<0.97	ND	ND	ND
Chloroform	ND	11.3	15.4	ND	ND
Chloromethane	ND	<0.76	ND	ND	ND
cis-1,2-Dichloroethene	ND	80.2	198	ND	47.2
cis-1,3-Dichloropropene	ND	<1.7	ND	ND	ND
Cyclohexane	ND	2.2	14.3	ND	766
Dibromochloromethane	ND	<3.1	ND	ND	ND
Dichlorodifluoromethane	ND	11.0	ND	ND	ND
Dichlorotetrafluoroethane	ND	<2.5	ND	ND	ND
Ethanol	ND	26.1	NA	NA	NA
Ethyl acetate	ND	<1.3	ND	ND	ND
Ethylbenzene	ND	118	ND	ND	ND
Hexachloro-1,3-butadiene	ND	<4.0	ND	ND	ND
m&p-Xylene	ND	456	ND	ND	ND
Methylene Chloride	ND	<1.3	ND	ND	270
Methyl-tert-butyl ether	ND	<1.3	ND	ND	ND
Naphthalene	ND	<4.9	NA	NA	NA
n-Heptane	ND	2.7	ND	ND	ND
n-Hexane	ND	4.7	135	ND	ND
o-Xylene	ND	159	ND	ND	ND
Propylene	ND	<0.63	ND	ND	ND
Styrene	ND	<1.6	ND	ND	ND
Tetrachloroethene	282,000	215,000	1,720,000	8,550,000	6,790
Tetrahydrofuran	ND	58.0	45.6	56,400	ND
Toluene	ND	28.4	124	ND	9.58
trans-1,2-Dichloroethene	ND	<1.5	ND	ND	ND
trans-1,3-Dichloropropene	ND	<1.7	ND	ND	ND
Trichloroethene	3,730	43.7	116	ND	21.3
Trichlorofluoromethane	ND	<2.0	ND	ND	ND
Vinyl acetate	ND	8.9	ND	ND	ND
Vinyl chloride	ND	<0.94	ND	ND	ND
TOTAL VOCs	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-OUTLET 1254	DPE-EFFLUENT 519	DPE-EFFLUENT 253	DPE - EFFLUENT 0680
Wells Operating	All DPE Wells	All DPE Wells	DPE-1	DPE-1
Sample Collection Method	6-hr Composite	6-hr Composite	Grab	Grab
Collected Date	11/17/2009	10/16/2009	10/15/2009	9/4/2009
1,1,1-Trichloroethane	ND	81.7	4.2	127
1,1,2,2-Tetrachloroethane	ND	<2.2	<2.1	<2.1
1,1,2-Trichloroethane	ND	<1.7	<1.6	<1.6
1,1,2-Trichlorotrifluoroethane	72,100	172	97,900	153,000
1,1-Dichloroethane	ND	<1.3	<1.2	<1.2
1,1-Dichloroethene	ND	13.9	<1.2	15.0
1,2,4-Trichlorobenzene	ND	<1.5	<1.5	<1.5
1,2,4-Trimethylbenzene	ND	<3.8	<3.7	10.2
1,2-Dibromoethane (EDB)	ND	<2.5	<2.4	<2.4
1,2-Dichlorobenzene	ND	<1.8	<1.8	<1.8
1,2-Dichloroethane	ND	<1.3	<1.2	<1.2
1,2-Dichloropropane	ND	<1.4	<1.4	<1.4
1,3,5-Trimethylbenzene	ND	<3.8	<3.7	5.0
1,3-Butadiene	ND	<0.69	<0.67	<0.67
1,3-Dichlorobenzene	ND	<1.8	<1.8	6.0
1,4-Dichlorobenzene	ND	<1.8	<1.8	8.6
2-Butanone (MEK)	ND	12.2	<0.89	15.8
2-Hexanone	ND	<1.3	<1.2	<1.2
2-Propanol	NA	4.9	<3.7	<3.7
4-Ethyltoluene	ND	<3.8	<3.7	6.0
4-Methyl-2-pentanone (MIBK)	ND	<1.3	<1.2	<1.2
Acetone	116	37,000	501	7,510
Benzene	ND	1.1	1.5	2.3
Benzyl chloride	NA	NA	NA	NA
Bromodichloromethane	ND	<2.2	<2.1	<2.1
Bromoform	ND	<3.2	<3.1	<3.1
Bromomethane	ND	<1.2	<1.2	<1.2
Carbon disulfide	ND	<0.97	<0.93	5.9
Carbon tetrachloride	ND	<2.0	<1.9	<1.9
Chlorobenzene	ND	<1.4	<1.4	<1.4
Chloroethane	ND	<0.83	<0.80	<0.80
Chloroform	ND	25.8	<1.5	21.5
Chloromethane	ND	<0.65	<0.62	<0.62
cis-1,2-Dichloroethene	118	257	21.5	2,620
cis-1,3-Dichloropropene	ND	<1.4	<1.4	<1.4
Cyclohexane	ND	<1.0	<1.0	3.5
Dibromochloromethane	ND	<2.6	<2.5	<2.5
Dichlorodifluoromethane	ND	<1.5	2.8	<1.5
Dichlorotetrafluoroethane	ND	<2.2	<2.1	<2.1
Ethanol	NA	8.9	8.4	5.7
Ethyl acetate	ND	<1.1	<1.1	<1.1
Ethylbenzene	ND	7.9	<1.3	<1.3
Hexachloro-1,3-butadiene	ND	<3.4	<3.3	<3.3
m&p-Xylene	ND	25.0	2.6	14.2
Methylene Chloride	ND	<1.1	276	<1.1
Methyl-tert-butyl ether	ND	<1.1	<1.1	<1.1
Naphthalene	NA	5.6	<4.0	4.2
n-Heptane	ND	<1.3	<1.2	2.6
n-Hexane	ND	2.1	35.4	3.4
o-Xylene	ND	7.5	<1.3	4.8
Propylene	ND	<0.54	<0.52	<0.52
Styrene	ND	<1.3	<1.3	<1.3
Tetrachloroethene	381,000	571,000	396,000	3,630,000
Tetrahydrofuran	145	36.2	<0.89	31.1
Toluene	ND	17.6	10.3	14.4
trans-1,2-Dichloroethene	ND	<1.2	<1.2	4.2
trans-1,3-Dichloropropene	ND	<1.4	<1.4	<1.4
Trichloroethene	ND	153	13.6	1,640
Trichlorofluoromethane	ND	<1.7	1.7	2.2
Vinyl acetate	ND	7.4	<1.1	8.7
Vinyl chloride	ND	<0.80	<0.77	<0.77
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
7/25/2011	All Wells	PCE	308	NA	NA	NA	NA	NA	NA	6	5	11	0	0	8.5E-09
8/28/2011	All Wells	PCE	0	NA	NA	NA	NA	NA	NA	0	7	7	0	0	5.5E-09
9/29/2011	DPE-1,2,3,4	PCE	3,420	NA	NA	NA	NA	NA	NA	97	0	97	0	0	1.0E-07
10/27/2011	DPE-1,2,3,4	PCE	180	NA	NA	NA	NA	NA	NA	4	0	4	0	0	5.2E-09
11/21/2011	DPE-1,2,3,4	PCE	22,100	NA	NA	NA	NA	NA	NA	578	1	579	0	0	5.1E-07
1/27/2012	DPE-1,2,3,4	PCE	29,100	NA	NA	NA	NA	NA	NA	674	3	677	0	0	3.7E-10
2/16/2012	DPE-1,2,3,4	PCE	4,440	NA	NA	NA	NA	NA	NA	84	2	86	0	0	7.1E-08
3/16/2012	DPE-1,2,3,4	PCE	0	NA	NA	NA	NA	NA	NA	0	1	1	0	0	4.9E-10
4/17/2012	DPE-1,2,3,4	PCE	20,600	NA	NA	NA	NA	NA	NA	284	1	285	0	0	2.4E-07
5/17/2012	DPE-1,2,3,4	PCE	25,200	NA	NA	NA	NA	NA	NA	384	1	385	0	0	3.1E-07
6/14/2012	DPE-1,2,3,4	PCE	11,200	NA	NA	NA	NA	NA	NA	204	1	205	0	0	1.6E-07
7/19/2012	DPE-3	PCE	113,000	NA	NA	NA	NA	NA	NA	2,624	0	2,624	0	0	2.1E-06
8/23/2012	DPE-3	PCE	27,800	NA	NA	NA	NA	NA	NA	437	1	438	0	0	3.5E-07
9/26/2012	DPE-3	PCE	45,800	NA	NA	NA	NA	NA	NA	983	0	983	0	0	7.9E-07

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
6/16/2011	7/25/2011	39	936	606,917	119,065	2.1	0.134	37	0	100	0.037	0.51	0.001
7/25/2011	8/28/2011	34	816	645,249	38,332	0.8	0.049	51	5	90	0.015	0.52	0.000
8/28/2011	9/29/2011	32	768	673,352	28,103	0.6	0.038	45	7	86	0.009	0.53	0.000
9/29/2011	10/27/2011	28	672	694,330	20,978	0.5	0.033	41	0	100	0.007	0.54	0.000
10/27/2011	11/21/2011	25	600	716,049	21,719	0.6	0.038	32	0	100	0.006	0.55	0.000
11/21/2011	1/20/2012	60	1440	725,742	9,693	0.1	0.007	149	45	70	0.008	0.55	0.000
1/20/2012	1/27/2012	7	168	731,337	5,595	0.6	0.035	76	0	100	0.004	0.56	0.001
1/27/2012	2/16/2012	20	480	746,725	15,388	0.5	0.034	52	0	100	0.007	0.56	0.000
2/16/2012	3/16/2012	29	696	757,124	10,399	0.2	0.016	87	0	100	0.007	0.57	0.000
3/16/2012	4/17/2012	32	768	783,562	26,438	0.6	0.036	40	0	100	0.009	0.58	0.000
4/17/2012	5/17/2012	30	720	809,091	25,529	0.6	0.037	23	0	100	0.005	0.58	0.000
5/17/2012	6/14/2012	28	672	830,565	21,474	0.5	0.034	39	3	92	0.006	0.59	0.000
6/14/2012	7/19/2012	35	840	835,414	4,849	0.1	0.006	36	35	2	0.000	0.59	0.000
7/19/2012	8/23/2012	35	840	849,507	14,093	0.3	0.018	46	0	100	0.005	0.60	0.000
8/23/2012	9/26/2012	34	816	860,318	10,811	0.2	0.014	22	2	92	0.002	0.60	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.
- Analog flow totalizer reading on 10/27/11 was estimated from field readings from Oct. 27 and Sept 29, 2011.

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	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent
Collected Date	9/26/2012	9/26/2012	8/23/2012	8/23/2012	7/19/2012	7/19/2012	6/14/2012	6/14/2012
1,1,1,2-Tetrachloroethane	<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
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichlorotrifluoroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	<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
1,1-Dichloropropene	<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
1,2,3-Trichloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2,4-Trichlorobenzene	<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
1,2-Dibromo-3-chloropropane	<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
1,2-Dichlorobenzene	<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
1,2-Dichloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,3,5-Trimethylbenzene	<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
1,3-Dichloropropane	<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
2,2-Dichloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Butanone (MEK)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Chloroethylvinyl ether	<10.0	<10.0	<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
2-Hexanone	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*	NA*
2-Methylnaphthalene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA*	NA*
4-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acrolein	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA*	NA*
Acrylonitrile	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA*	NA*
Allyl chloride	<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
Bromobenzene	<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
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromomethane	<10.0	<10.0	<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	NA*	NA*
Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	<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
Chloroform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Chloroprene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*	NA*
cis-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	<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
Dibromomethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dichlorodifluoromethane	<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
Diethyl ether (Ethyl ether)	<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
Hexachloro-1,3-butadiene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	<10.0	<10.0	<4.0	<4.0	<4.0	<4.0	NA*	NA*
Isopropylbenzene (Cumene)	<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
Methylene Chloride	<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
Naphthalene	<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
n-Propylbenzene	<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
p-Isopropyltoluene	<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
Styrene	<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
Tetrachloroethene	21.8	1.8	45.5	<1.0	36.1	35.2	39.0	3.3
Tetrahydrofuran	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Toluene	<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
trans-1,3-Dichloropropene	<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
Trichlorofluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl acetate	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA*	NA*
Vinyl chloride	<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
Total VOC Concentration	21.8	1.8	45.5	0	36.1	35.2	39	3.3

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 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	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent
Collected Date	5/17/2012	5/17/2012	4/17/2012	4/17/2012	3/16/2012	3/16/2012	2/16/2012	2/16/2012
1,1,1,2-Tetrachloroethane	<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
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichlorotrifluoroethane	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	<1.0
1,1-Dichloroethane	<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
1,1-Dichloropropene	<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
1,2,3-Trichloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2,4-Trichlorobenzene	<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
1,2-Dibromo-3-chloropropane	<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
1,2-Dichlorobenzene	<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
1,2-Dichloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,3,5-Trimethylbenzene	<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
1,3-Dichloropropane	<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
2,2-Dichloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Butanone (MEK)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Chloroethylvinyl ether	<10.0	<10.0	<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
2-Hexanone	NA*	NA*	<4.0	<4.0	NA	NA	<4.0	<4.0
2-Methylnaphthalene	NA*	NA*	<5.0	<5.0	NA	NA	<5.0	<5.0
4-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acrolein	NA*	NA*	<10.0	<10.0	NA	NA	<10.0	<10.0
Acrylonitrile	NA*	NA*	<10.0	<10.0	NA	NA	<10.0	<10.0
Allyl chloride	<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
Bromobenzene	<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
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromomethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Carbon disulfide	NA*	NA*	<1.0	<1.0	NA	NA	<1.0	<1.0
Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	<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
Chloroform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	<4.0	<4.0	<4.0	<4.0	4	<4.0	<4.0	<4.0
Chloroprene	NA*	NA*	<1.0	<1.0	NA	NA	<1.0	<1.0
cis-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	<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
Dibromomethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dichlorodifluoromethane	<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
Diethyl ether (Ethyl ether)	<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
Hexachloro-1,3-butadiene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	NA*	NA*	<4.0	<4.0	NA	NA	<4.0	<4.0
Isopropylbenzene (Cumene)	<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
Methylene Chloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<10.0	<10.0
Methyl-tert-butyl ether	<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
n-Butylbenzene	<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
o-Xylene	<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
sec-Butylbenzene	<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
tert-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	22.7	<1.0	39.6	<1.0	86.5	<1.0	51.8	<1.0
Tetrahydrofuran	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Toluene	<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
trans-1,3-Dichloropropene	<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
Trichlorofluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl acetate	<0.40	<0.40	<10.0	<10.0	NA	NA	<10.0	<10.0
Vinyl chloride	<3.0	<3.0	<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
Total VOC Concentration	22.7	0	39.6	0	91.7	0	51.8	0

0 : Parameter detected above the reporting limit.

22.7 : 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	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent
Collected Date	1/27/2012	1/27/2012	1/20/2012	1/20/2012	11/21/2011	11/21/2011	10/27/2011	10/27/2011
1,1,1,2-Tetrachloroethane	<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
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichlorotrifluoroethane	<1.0	<1.0	2.9	6.4	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	<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
1,1-Dichloropropene	<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
1,2,3-Trichloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2,4-Trichlorobenzene	<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
1,2-Dibromo-3-chloropropane	<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
1,2-Dichlorobenzene	<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
1,2-Dichloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,3,5-Trimethylbenzene	<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
1,3-Dichloropropane	<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
2,2-Dichloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Butanone (MEK)	<4.0	<4.0	8.8	<4.0	<4.0	<4.0	<4.0	<4.0
2-Chloroethylvinyl ether	<10.0	<10.0	<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
2-Hexanone	<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
4-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acrolein	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Acrylonitrile	<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
Benzene	<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
Bromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromomethane	<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
Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	<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
Chloroform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	<4.0	<4.0	9.4	7.8	<4.0	<4.0	<4.0	<4.0
Chloroprene	<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	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	<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
Dibromomethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dichlorodifluoromethane	<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
Diethyl ether (Ethyl ether)	<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
Hexachloro-1,3-butadiene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	<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
m&p-Xylene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Methyl-tert-butyl ether	<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
n-Butylbenzene	<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
o-Xylene	<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
sec-Butylbenzene	<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
tert-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	76.3	<1.0	149	45.1	31.6	<1.0	40.3	<1.0
Tetrahydrofuran	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Toluene	<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	<4.0	<4.0	<4.0	<4.0
trans-1,3-Dichloropropene	<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
Trichlorofluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl acetate	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Vinyl chloride	<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
Total VOC Concentration	76.3	0	149	45.1	31.6	0	40.3	0

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	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent
Collected Date	9/29/2011	9/29/2011	8/28/2011	8/28/2011	7/25/2011	7/25/2011	6/16/2011	6/16/2011
1,1,1,2-Tetrachloroethane	<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
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichlorotrifluoroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	<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
1,1-Dichloropropene	<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
1,2,3-Trichloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2,4-Trichlorobenzene	<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
1,2-Dibromo-3-chloropropane	<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
1,2-Dichlorobenzene	<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
1,2-Dichloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,3,5-Trimethylbenzene	<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
1,3-Dichloropropane	<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
2,2-Dichloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Butanone (MEK)	<4.0	6.5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Chloroethylvinyl ether	<10.0	<10.0	<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
2-Hexanone	<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
4-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acrolein	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Acrylonitrile	<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
Benzene	<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
Bromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromomethane	<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
Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	<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
Chloroform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	<4.0	<4.0	<4.0	4.9	<4.0	<4.0	<4.0	<4.0
Chloroprene	<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	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	<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
Dibromomethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dichlorodifluoromethane	<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
Diethyl ether (Ethyl ether)	<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
Hexachloro-1,3-butadiene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	<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
m&p-Xylene	<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
Methyl-tert-butyl ether	<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
n-Butylbenzene	<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
o-Xylene	<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
sec-Butylbenzene	<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
tert-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	45.1	<1.0	50.7	<1.0	37.0	<1.0	42.8	<1.0
Tetrahydrofuran	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
trans-1,3-Dichloropropene	<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
Trichlorofluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl acetate	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Vinyl chloride	<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
Total VOC Concentration	45.1	6.5	50.7	4.9	37	0	42.8	0

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	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent
Collected Date	5/19/2011	5/19/2011	4/22/2011	4/22/2011	3/23/2011	3/23/2011	3/1/2011	3/1/2011
1,1,1,2-Tetrachloroethane	<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
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichlorotrifluoroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.3	<1.0
1,1-Dichloroethane	<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
1,1-Dichloropropene	<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
1,2,3-Trichloropropane	<4.0	<4.0	<4.0	<4.0	<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
1,2,4-Trimethylbenzene	<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
1,2-Dibromoethane (EDB)	<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
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	<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
1,4-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Butanone (MEK)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Chloroethylvinyl ether	<10.0	<10.0	<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
2-Hexanone	<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
4-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acrolein	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Acrylonitrile	<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
Benzene	<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
Bromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0
Bromomethane	<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
Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0
Chlorobenzene	<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
Chloroform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	<4.0	<4.0	<4.0	<4.0	35.0	<4.0	<4.0	<4.0
Chloroprene	<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	<1.0	1.3	<1.0
cis-1,3-Dichloropropene	<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
Dibromomethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dichlorodifluoromethane	<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
Diethyl ether (Ethyl ether)	<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
Hexachloro-1,3-butadiene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0	<4.0
Iodomethane	<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
m&p-Xylene	<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	6.8	<4.0	<4.0
Methyl-tert-butyl ether	<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
n-Butylbenzene	<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
o-Xylene	<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
sec-Butylbenzene	<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
tert-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethane	21.8	<1.0	41.3	<1.0	7.6	<1.0	127	<1.0
Tetrahydrofuran	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<4.0	<4.0	<4.0	<4.0	<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
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl acetate	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<20.0	<20.0
Vinyl chloride	<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
Total VOC Concentration	21.8	0	41.3	0	42.6	6.8	130.6	0

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	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent
Collected Date	1/20/2011	1/20/2011	12/23/2010	12/23/2010	10/19/2010	10/19/2010	7/26/2010	7/26/2010
1,1,1,2-Tetrachloroethane	<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
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0
1,1,2-Trichlorotrifluoroethane	<1.0	<1.0	3.0	<1.0	1.9	<1.0	<1.0	<1.0
1,1-Dichloroethane	<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
1,1-Dichloropropene	<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
1,2,3-Trichloropropane	<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
1,2,4-Trimethylbenzene	<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
1,2-Dibromoethane (EDB)	<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
1,2-Dichloroethane	<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
1,3,5-Trimethylbenzene	<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
1,3-Dichloropropane	<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
2,2-Dichloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Butanone (MEK)	<4.0	<4.0	<4.0	<4.0	4.5	5.6	<4.0	<4.0
2-Chloroethylvinyl ether	<10.0	<10.0	<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
2-Hexanone	<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
4-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<5.0	<5.0
Acetone	<25.0	<25.0	<10.0	11.1	<10.0	<10.0	<10.0	<10.0
Acrolein	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<40.0	<40.0
Acrylonitrile	<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
Benzene	<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
Bromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0
Bromoform	<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
Carbon disulfide	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Chlorobenzene	<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
Chloroform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Chloroprene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	<1.0	<1.0	1.8	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	<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
Dibromomethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0
Dichlorodifluoromethane	<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
Diethyl ether (Ethyl ether)	<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
Hexachloro-1,3-butadiene	<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
Isopropylbenzene (Cumene)	<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
Methylene Chloride	<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
Naphthalene	<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
n-Propylbenzene	<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
p-Isopropyltoluene	<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
Styrene	<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
Tetrachloroethene	51.8	<1.0	168	<1.0	204	<1.0	<1.0	40.6
Tetrahydrofuran	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Toluene	<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
trans-1,3-Dichloropropene	<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
Trichlorofluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0
Vinyl acetate	<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
Xylene (Total)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Total VOC Concentration	51.8	0	172.8	11.1	210.4	5.6	0	40.6

Bold : Parameter detected above the reporting limit.
Bold : Total VOC Concentration is above discharge limit of 2,140 ug/L.

- Initial sampling event to determine if groundwater treatment was necessary.
- Increase in VOCs was from PVC glue and cement from construction of the DPE system and air stripper.
- 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	AS-Influent	AS-Effluent ³	AS-Influent	AS-Effluent ²
Collected Date	6/17/2010	6/17/2010	5/12/2010	5/12/2010	4/16/2010	4/16/2010	3/25/2010	3/25/2010
1,1,1,2-Tetrachloroethane	<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
1,1,2,2-Tetrachloroethane	<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
1,1,2-Trichlorotrifluoroethane	2.6	<1.0	2.5	<1.0	1.4	<1.0	1.0	<1.0
1,1-Dichloroethane	<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
1,1-Dichloropropene	<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
1,2,3-Trichloropropane	<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
1,2,4-Trimethylbenzene	<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
1,2-Dibromoethane (EDB)	<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
1,2-Dichloroethane	<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
1,3,5-Trimethylbenzene	<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
1,3-Dichloropropane	<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
2,2-Dichloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Butanone (MEK)	<4.0	<4.0	<4.0	<4.0	<4.0	4.9	4.9	7.5
2-Chloroethylvinyl ether	<10.0	<10.0	<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
2-Hexanone	<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
4-Chlorotoluene	<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
Acetone	<10.0	13.3	<10.0	<10.0	<10.0	29.3	11.2	29.8
Acrolein	<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
Allyl chloride	<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
Bromobenzene	<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
Bromodichloromethane	<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
Bromomethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	37.3	38.0
Carbon disulfide	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Chlorobenzene	<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
Chloroform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	7.2	8.7	<4.0	<4.0	10.7	491	380	644
Chloroprene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	<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
Dibromomethane	<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
Dichlorofluoromethane	<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
Ethylbenzene	<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
Iodomethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	17.3	18.9
Isopropylbenzene (Cumene)	<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	3.4
Methylene Chloride	<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
Naphthalene	<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
n-Propylbenzene	<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	1.6
p-Isopropyltoluene	<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
Styrene	<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
Tetrachloroethane	108	2.4	63.4	<1.0	48.6	<1.0	55.5	<1.0
Tetrahydrofuran	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	20.3
Toluene	<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
trans-1,3-Dichloropropene	<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
Trichlorofluoromethane	<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
Vinyl chloride	<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	4.9
Total VOC Concentration	119.3	15.7	65.9	0	60.7	525.2	507.2	763.5

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	AS-Influent	AS-IN Vial 2	AS-Effluent	AS-INFLUENT	AS-EFFLUENT
Collected Date	2/22/2010	2/22/2010	1/14/2010	1/14/2010	12/17/2009	12/17/2009	12/17/2009	11/16/2009	11/16/2009
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	2.1	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0
2-Butanone (MEK)	<4.0	<4.0	7.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Chloroethylvinyl ether	<10.0	<10.0	<25.0	<25.0	<25.0	<25.0	<25.0	<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	14.6	<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
Bromoforn	<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	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0
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	<4.0	<4.0	98.5	31.9	<1.0	<1.0	1.3	<4.0	<4.0
Chloroprene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	1.3	<1.0	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	69.6	<1.0	157	<1.0	<1.0	<1.0	22.7	30.7	<1.0
Tetrahydrofuran	<10.0	15.7	29.4	<10.0	11.7	11.5	<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	73	15.7	308.8	31.9	11.7	11.5	24	30.7	0

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	AS-INFLUENT	AS-EFFLUENT	AS INFLUENT	AS EFFLUENT ²	DPE Discharge ¹
Collected Date	10/15/2009	10/15/2009	9/4/2009	9/4/2009	7/9/2009	7/9/2009	6/4/2009	6/4/2009	4/9/2009
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	29.4
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,1,2-Trichloroethane	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
1,1,2-Trichlorotrifluoroethane	1.4	<1.0	1.2	<1.0	10.4	<1.0	53.7	<1.0	7860
1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,1-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,1-Dichloropropene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,2,4-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	26.0
1,2-Dibromo-3-chloropropane	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
1,2-Dibromoethane (EDB)	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,2-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	7.1
1,3-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,3-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,4-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	7.8
2,2-Dichloropropane	<4.0	<4.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
2-Butanone (MEK)	5.4	<4.0	13.5	19.8	<20.0	82.1	<200	1670	392
2-Chloroethylvinyl ether	<10.0	<10.0	<10.0	<10.0	<50.0	<10.0	<1250	<25.0	<50.0
2-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	51.0
2-Hexanone	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
2-Methylnaphthalene	<5.0	<5.0	<5.0	<5.0	<25.0	<5.0	<250	<5.0	<25.0
4-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
4-Methyl-2-pentanone (MIBK)	<5.0	<5.0	<5.0	<5.0	<25.0	<5.0	<250	<5.0	<25.0
Acetone	<10.0	<10.0	<10.0	<10.0	<50.0	68.7	<500	987	<50.0
Acrolein	<40.0	<40.0	<40.0	<40.0	<200	<40.0	<2000	<40.0	<200
Acrylonitrile	<10.0	<10.0	<10.0	<10.0	<50.0	<10.0	<500	<10.0	<50.0
Allyl chloride	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Benzene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Bromobenzene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Bromochloromethane	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Bromodichloromethane	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Bromoform	<8.0	<8.0	<8.0	<8.0	<40.0	<8.0	<400	<8.0	<40.0
Bromomethane	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Carbon disulfide	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Carbon tetrachloride	<4.0	<4.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Chlorobenzene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Chloroethane	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Chloroform	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Chloromethane	<1.0	<1.0	<1.0	<1.0	63.3	76.4	<50.0	<1.0	<5.0
Chloroprene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
cis-1,2-Dichloroethene	1.5	<1.0	1.5	<1.0	13.0	<1.0	62.9	<1.0	206
cis-1,3-Dichloropropene	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Dibromomethane	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Dichlorodifluoromethane	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Dichlorofluoromethane	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Diethyl ether (Ethyl ether)	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Hexachloro-1,3-butadiene	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Iodomethane	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Isopropylbenzene (Cumene)	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
m&p-Xylene	<2.0	<2.0	<2.0	<2.0	<10.0	<2.0	<100	<2.0	<10.0
Methylene Chloride	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Methyl-tert-butyl ether	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Naphthalene	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
n-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	5.0
n-Propylbenzene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
o-Xylene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
p-Isopropyltoluene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
sec-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Styrene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
tert-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Tetrachloroethene	214	<1.0	175	<1.0	1460	<1.0	3970	33.8	167000
Tetrahydrofuran	15.7	<10.0	<10.0	<10.0	<50.0	252	543	6300	600
Toluene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
trans-1,3-Dichloropropene	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	159
Trichlorofluoromethane	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Vinyl acetate	<20.0	<20.0	<20.0	<20.0	<100	<20.0	<1000	<20.0	<100
Vinyl chloride	<0.40	<0.40	<0.40	<0.40	<2.0	<0.40	<20.0	<0.40	<2.0
Xylene (Total)	<3.0	<3.0	<3.0	<3.0	<15.0	<3.0	<150	<3.0	<15.0
Total VOC Concentration	238	0	191.2	19.8	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-14	7/25/2011	989.50	10.72	978.78	DPE System on all wells
MW-14	8/28/2011	989.50	12.11	977.39	DPE System on all wells
MW-14	9/29/2011	989.50	12.26	977.24	DPE-1,2,3,4
MW-14	10/18/2011	989.50	11.18	978.32	DPE-1,2,3,4
MW-14	10/27/2011	989.50	12.30	977.20	DPE-1,2,3,4
MW-14	11/21/2011	989.50	12.77	976.73	DPE-1,2,3,4
MW-14	1/20/2012	989.50	12.29	977.21	DPE-1,2,3,4
MW-14	1/27/2012	989.50	13.06	976.44	DPE-1,2,3,4
MW-14	2/16/2012	989.50	13.14	976.36	DPE-1,2,3,4
MW-14	3/16/2012	989.50	13.56	975.94	DPE-1,2,3,4
MW-14	3/27/2012	989.50	12.46	977.04	DPE-1,2,3,4
MW-14	4/17/2012	989.50	13.00	976.50	DPE-1,2,3,4
MW-14	5/17/2012	989.50	12.88	976.62	DPE-1,2,3,4
MW-14	5/31/2012	989.50	12.64	976.86	DPE-1,2,3,4
MW-14	6/14/2012	989.50	13.35	976.15	DPE-1,2,3,4
MW-14	7/19/2012	989.50	13.80	975.70	DPE-3
MW-14	8/23/2012	989.50	13.20	976.30	DPE-3
MW-14	9/26/2012	989.50	13.47	976.03	DPE-3

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	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
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-15	7/25/2011	991.50	13.08	978.42	DPE System on all wells
MW-15	8/28/2011	991.50	14.76	976.74	DPE System on all wells
MW-15	9/29/2011	991.50	15.28	976.22	DPE-1,2,3,4
MW-15	10/18/2011	991.50	13.79	977.71	DPE-1,2,3,4
MW-15	10/27/2011	991.50	15.56	975.94	DPE-1,2,3,4
MW-15	11/21/2011	991.50	15.89	975.61	DPE-1,2,3,4
MW-15	1/20/2012	991.50	14.92	976.58	DPE-1,2,3,4
MW-15	1/27/2012	991.50	15.91	975.59	DPE-1,2,3,4
MW-15	2/16/2012	991.50	15.78	975.72	DPE-1,2,3,4
MW-15	3/16/2012	991.50	15.81	975.69	DPE-1,2,3,4
MW-15	3/27/2012	991.50	15.19	976.31	DPE-1,2,3,4
MW-15	4/17/2012	991.50	15.49	976.01	DPE-1,2,3,4
MW-15	5/17/2012	991.50	15.90	975.60	DPE-1,2,3,4
MW-15	5/31/2012	991.50	15.26	976.24	DPE-1,2,3,4
MW-15	6/14/2012	991.50	15.93	975.57	DPE-1,2,3,4
MW-15	7/19/2012	991.50	16.63	974.87	DPE-3
MW-15	8/23/2012	991.50	16.04	975.46	DPE-3
MW-15	9/26/2012	991.50	16.32	975.18	DPE-3

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-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-16	7/25/2011	989.44	11.31	978.13	DPE System on all wells
MW-16	8/28/2011	989.44	12.59	976.85	DPE System on all wells
MW-16	9/29/2011	989.44	13.09	976.35	DPE-1,2,3,4
MW-16	10/18/2011	989.44	11.59	977.85	DPE-1,2,3,4
MW-16	10/27/2011	989.44	12.88	976.56	DPE-1,2,3,4
MW-16	11/21/2011	989.44	13.68	975.76	DPE-1,2,3,4
MW-16	1/20/2012	989.44	12.73	976.71	DPE-1,2,3,4
MW-16	1/27/2012	989.44	13.88	975.56	DPE-1,2,3,4
MW-16	2/16/2012	989.44	13.99	975.45	DPE-1,2,3,4
MW-16	3/16/2012	989.44	14.14	975.30	DPE-1,2,3,4
MW-16	3/27/2012	989.44	13.34	976.10	DPE-1,2,3,4
MW-16	4/17/2012	989.44	13.88	975.56	DPE-1,2,3,4
MW-16	5/17/2012	989.44	13.80	975.64	DPE-1,2,3,4
MW-16	5/31/2012	989.44	13.26	976.18	DPE-1,2,3,4
MW-16	6/14/2012	989.44	14.21	975.23	DPE-1,2,3,4
MW-16	7/19/2012	989.44	14.51	974.93	DPE-3
MW-16	8/23/2012	989.44	13.99	975.45	DPE-3
MW-16	9/26/2012	989.44	14.32	975.12	DPE-3

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	12/3/2008	989.53	12.81	976.72	pre-system installation
MW-17	6/8/2009	989.53	13.69	975.84	pre-system startup
MW-17	7/9/2009	989.53	14.44	975.09	DPE system on DPE-1
MW-17	7/9/2009	989.53	14.35	975.18	DPE system temporarily off
MW-17	9/4/2009	989.53	14.31	975.22	DPE system on
MW-17	9/4/2009	989.53	14.33	975.20	DPE system on after replacing inlet screen
MW-17	9/4/2009	989.53	14.39	975.14	DPE system on after replacing inlet filter
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-17	7/25/2011	989.53	12.02	977.51	DPE System on all wells
MW-17	8/28/2011	989.53	13.41	976.12	DPE System on all wells
MW-17	9/29/2011	989.53	13.04	976.49	DPE-1,2,3,4
MW-17	10/18/2011	989.53	12.66	976.87	DPE-1,2,3,4
MW-17	10/27/2011	989.53	13.08	976.45	DPE-1,2,3,4
MW-17	11/21/2011	989.53	13.48	976.05	DPE-1,2,3,4
MW-17	1/20/2012	989.53	13.72	975.81	DPE-1,2,3,4
MW-17	1/27/2012	989.53	13.99	975.54	DPE-1,2,3,4
MW-17	2/16/2012	989.53	14.04	975.49	DPE-1,2,3,4
MW-17	3/16/2012	989.53	14.11	975.42	DPE-1,2,3,4
MW-17	3/27/2012	989.53	13.59	975.94	DPE-1,2,3,4
MW-17	4/17/2012	989.53	13.83	975.70	DPE-1,2,3,4
MW-17	5/17/2012	989.53	13.91	975.62	DPE-1,2,3,4
MW-17	5/31/2012	989.53	13.99	975.54	DPE-1,2,3,4
MW-17	6/14/2012	989.53	14.48	975.05	DPE-1,2,3,4
MW-17	7/19/2012	989.53	15.29	974.24	DPE-3
MW-17	8/23/2012	989.53	14.68	974.85	DPE-3
MW-17	9/26/2012	989.53	14.88	974.65	DPE-3

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	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
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-18	7/25/2011	989.50	13.00	976.50	DPE System on all wells
MW-18	8/28/2011	989.50	14.52	974.98	DPE System on all wells
MW-18	9/29/2011	989.50	13.67	975.83	DPE-1,2,3,4
MW-18	10/18/2011	989.50	13.44	976.06	DPE-1,2,3,4
MW-18	10/27/2011	989.50	13.56	975.94	DPE-1,2,3,4
MW-18	11/21/2011	989.50	13.88	975.62	DPE-1,2,3,4
MW-18	1/20/2012	989.50	14.42	975.08	DPE-1,2,3,4
MW-18	1/27/2012	989.50	14.53	974.97	DPE-1,2,3,4
MW-18	2/16/2012	989.50	14.63	974.87	DPE-1,2,3,4
MW-18	3/16/2012	989.50	14.71	974.79	DPE-1,2,3,4
MW-18	3/27/2012	989.50	14.22	975.28	DPE-1,2,3,4
MW-18	4/17/2012	989.50	14.26	975.24	DPE-1,2,3,4
MW-18	5/17/2012	989.50	14.88	974.62	DPE-1,2,3,4
MW-18	5/31/2012	989.50	14.96	974.54	DPE-1,2,3,4
MW-18	6/14/2012	989.50	15.47	974.03	DPE-1,2,3,4
MW-18	7/19/2012	989.50	16.70	972.80	DPE-3
MW-18	8/23/2012	989.50	16.02	973.48	DPE-3
MW-18	9/26/2012	989.50	16.06	973.44	DPE-3

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-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-19	7/25/2011	991.13	12.42	978.71	DPE System on all wells
MW-19	8/28/2011	991.13	14.29	976.84	DPE System on all wells
MW-19	9/29/2011	991.13	14.05	977.08	DPE-1,2,3,4
MW-19	10/18/2011	991.13	13.33	977.80	DPE-1,2,3,4
MW-19	10/27/2011	991.13	14.32	976.81	DPE-1,2,3,4
MW-19	11/21/2011	991.13	14.74	976.39	DPE-1,2,3,4
MW-19	1/20/2012	991.13	14.76	976.37	DPE-1,2,3,4
MW-19	1/27/2012	991.13	15.43	975.70	DPE-1,2,3,4
MW-19	2/16/2012	991.13	15.46	975.67	DPE-1,2,3,4
MW-19	3/16/2012	991.13	15.59	975.54	DPE-1,2,3,4
MW-19	3/27/2012	991.13	14.60	976.53	DPE-1,2,3,4
MW-19	4/17/2012	991.13	15.37	975.76	DPE-1,2,3,4
MW-19	5/17/2012	991.13	15.03	976.10	DPE-1,2,3,4
MW-19	5/31/2012	991.13	14.79	976.34	DPE-1,2,3,4
MW-19	6/14/2012	991.13	15.56	975.57	DPE-1,2,3,4
MW-19	7/19/2012	991.13	16.06	975.07	DPE-3
MW-19	8/23/2012	991.13	15.38	975.75	DPE-3
MW-19	9/26/2012	991.13	15.77	975.36	DPE-3

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	12/3/2008	991.50	12.40	979.10	pre-system installation
MW-20	6/8/2009	991.50	11.93	979.57	pre-system startup
MW-20	7/9/2009	991.50	12.19	979.31	DPE system on DPE-1
MW-20	7/9/2009	991.50	12.24	979.26	DPE system temporarily off
MW-20	9/4/2009	991.50	12.53	978.97	DPE system on
MW-20	9/4/2009	991.50	12.47	979.03	DPE system on after replacing inlet screen
MW-20	9/4/2009	991.50	12.49	979.01	DPE system on after replacing inlet filter
MW-20	10/15/2009	991.50	12.16	979.34	DPE system on DPE-1
MW-20	10/23/2009	991.50	11.33	980.17	DPE system off
MW-20	11/16/2009	991.50	11.02	980.48	DPE System on all wells
MW-20	12/17/2009	991.50	12.31	979.19	DPE System on all wells
MW-20	1/14/2010	991.50	12.34	979.16	DPE System on all wells
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
MW-20	7/25/2011	991.50	10.13	981.37	DPE System on all wells
MW-20	8/28/2011	991.50	12.32	979.18	DPE System on all wells
MW-20	9/29/2011	991.50	12.48	979.02	DPE-1,2,3,4
MW-20	10/18/2011	991.50	12.31	979.19	DPE-1,2,3,4
MW-20	10/27/2011	991.50	12.98	978.52	DPE-1,2,3,4
MW-20	11/21/2011	991.50	13.46	978.04	DPE-1,2,3,4
MW-20	1/20/2012	991.50	13.71	977.79	DPE-1,2,3,4
MW-20	1/27/2012	991.50	13.96	977.54	DPE-1,2,3,4
MW-20	2/16/2012	991.50	14.08	977.42	DPE-1,2,3,4
MW-20	3/16/2012	991.50	14.20	977.30	DPE-1,2,3,4
MW-20	3/27/2012	991.50	13.64	977.86	DPE-1,2,3,4
MW-20	4/17/2012	991.50	14.03	977.47	DPE-1,2,3,4
MW-20	5/17/2012	991.50	13.59	977.91	DPE-1,2,3,4
MW-20	5/31/2012	991.50	13.38	978.12	DPE-1,2,3,4
MW-20	6/14/2012	991.50	13.81	977.69	DPE-1,2,3,4
MW-20	7/19/2012	991.50	13.71	977.79	DPE-3
MW-20	8/23/2012	991.50	13.13	978.37	DPE-3
MW-20	9/26/2012	991.50	13.88	977.62	DPE-3

TABLE 7

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

Well ID	Date Measured	Top of Casing Elevation ^{1,2}	Depth to Groundwater (feet)	Groundwater Elevation ³	System Status
DPE-1	12/3/2008	991.46	13.66	977.80	pre-system installation
DPE-1	6/8/2009	992.40	18.78	973.62	pre-system startup
DPE-1	7/9/2009	992.40	20.51	971.89	DPE system on DPE-1
DPE-1	7/9/2009	992.40	16.38	976.02	DPE system temporarily off
DPE-1	9/4/2009	992.40	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
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	15.12	977.28	DPE System on all wells
DPE-1	7/25/2011	992.40	14.35	978.05	DPE System on all wells
DPE-1	8/28/2011	992.40	13.04	979.36	DPE System on all wells. Appears to be a data outlier.
DPE-1	9/29/2011	992.40	15.89	976.51	DPE-1,2,3,4
DPE-1	10/18/2011	992.40	14.89	977.51	DPE-1,2,3,4
DPE-1	10/27/2011	992.40	16.65	975.75	DPE-1,2,3,4
DPE-1	11/21/2011	992.40	17.40	975.00	DPE-1,2,3,4
DPE-1	1/20/2012	992.40	15.39	977.01	DPE-1,2,3,4
DPE-1	1/27/2012	992.40	17.19	975.21	DPE-1,2,3,4
DPE-1	2/16/2012	992.40	18.28	974.12	DPE-1,2,3,4
DPE-1	3/16/2012	992.40	19.30	973.10	DPE-1,2,3,4
DPE-1	3/27/2012	992.40	17.95	974.45	DPE-1,2,3,4
DPE-1	4/17/2012	992.40	16.67	975.73	DPE-1,2,3,4
DPE-1	5/17/2012	992.40	16.93	975.47	DPE-1,2,3,4
DPE-1	5/31/2012	992.40	15.79	976.61	DPE-1,2,3,4
DPE-1	6/14/2012	992.40	17.05	975.35	DPE-1,2,3,4
DPE-1	7/19/2012	992.40	17.54	974.86	DPE-3
DPE-1	8/23/2012	992.40	16.68	975.72	DPE-3
DPE-1	9/26/2012	992.40	16.41	975.99	DPE-3

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-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-2	7/25/2011	992.80	14.83	977.97	DPE System on all wells
DPE-2	8/28/2011	992.80	17.81	974.99	DPE System on all wells
DPE-2	9/29/2011	992.80	15.78	977.02	DPE-1,2,3,4
DPE-2	10/18/2011	992.80	14.78	978.02	DPE-1,2,3,4
DPE-2	10/27/2011	992.80	15.94	976.86	DPE-1,2,3,4
DPE-2	11/21/2011	992.80	16.49	976.31	DPE-1,2,3,4
DPE-2	1/20/2012	992.80	15.94	976.86	DPE-1,2,3,4
DPE-2	1/27/2012	992.80	16.98	975.82	DPE-1,2,3,4
DPE-2	2/16/2012	992.80	17.06	975.74	DPE-1,2,3,4
DPE-2	3/16/2012	992.80	17.04	975.76	DPE-1,2,3,4
DPE-2	3/27/2012	992.80	16.29	976.51	DPE-1,2,3,4
DPE-2	4/17/2012	992.80	16.76	976.04	DPE-1,2,3,4
DPE-2	5/17/2012	992.80	16.63	976.17	DPE-1,2,3,4
DPE-2	5/31/2012	992.80	16.34	976.46	DPE-1,2,3,4
DPE-2	6/14/2012	992.80	17.10	975.70	DPE-1,2,3,4
DPE-2	7/19/2012	992.80	17.79	975.01	DPE-3
DPE-2	8/23/2012	992.80	16.90	975.90	DPE-3
DPE-2	9/26/2012	992.80	16.99	975.81	DPE-3

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	12/3/2008	991.50	10.30	981.20	pre-system installation
DPE-3	6/8/2009	992.48	13.64	978.84	pre-system startup
DPE-3	7/9/2009	992.48	13.98	978.50	DPE system on DPE-1
DPE-3	7/9/2009	992.48	14.06	978.42	DPE system temporarily off
DPE-3	9/4/2009	992.48	14.48	978.00	DPE system on DPE-1
DPE-3	9/4/2009	992.48	14.49	977.99	DPE-1 on after replacing inlet screen
DPE-3	9/4/2009	992.48	14.50	977.98	DPE-1 on after replacing inlet filter
DPE-3	10/15/2009	992.48	14.87	977.61	DPE system on DPE-1
DPE-3	10/23/2009	992.48	14.76	977.72	DPE system off
DPE-3	11/16/2009	992.48	14.59	977.89	DPE System on all wells
DPE-3	12/17/2009	992.48	15.28	977.20	DPE System on all wells
DPE-3	1/14/2010	992.48	16.52	975.96	DPE System on all wells
DPE-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-3	7/25/2011	992.48	14.11	978.37	DPE System on all wells
DPE-3	8/28/2011	992.48	15.88	976.60	DPE System on all wells
DPE-3	9/29/2011	992.48	16.56	975.92	DPE-1,2,3,4
DPE-3	10/18/2011	992.48	14.89	977.59	DPE-1,2,3,4
DPE-3	10/27/2011	992.48	16.82	975.66	DPE-1,2,3,4
DPE-3	11/21/2011	992.48	16.51	975.97	DPE-1,2,3,4
DPE-3	1/20/2012	992.48	16.15	976.33	DPE-1,2,3,4
DPE-3	1/27/2012	992.48	17.60	974.88	DPE-1,2,3,4
DPE-3	2/16/2012	992.48	17.90	974.58	DPE-1,2,3,4
DPE-3	3/16/2012	992.48	17.51	974.97	DPE-1,2,3,4
DPE-3	3/27/2012	992.48	16.38	976.10	DPE-1,2,3,4
DPE-3	4/17/2012	992.48	17.28	975.20	DPE-1,2,3,4
DPE-3	5/17/2012	992.48	17.08	975.40	DPE-1,2,3,4
DPE-3	5/31/2012	992.48	16.82	975.66	DPE-1,2,3,4
DPE-3	6/14/2012	992.48	17.42	975.06	DPE-1,2,3,4
DPE-3	7/19/2012	992.48	16.61	975.87	DPE-3
DPE-3	8/23/2012	992.48	17.20	975.28	DPE-3
DPE-3	9/26/2012	992.48	17.02	975.46	DPE-3

TABLE 7

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

Well ID	Date Measured	Top of Casing Elevation ^{1,2}	Depth to Groundwater (feet)	Groundwater Elevation ³	System Status
DPE-4	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
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-4	7/25/2011	992.40	14.49	977.91	DPE System on all wells
DPE-4	8/28/2011	992.40	16.58	975.82	DPE System on all wells
DPE-4	9/29/2011	992.40	16.42	975.98	DPE-1,2,3,4
DPE-4	10/18/2011	992.40	14.98	977.42	DPE-1,2,3,4
DPE-4	10/27/2011	992.40	16.64	975.76	DPE-1,2,3,4
DPE-4	11/21/2011	992.40	17.11	975.29	DPE-1,2,3,4
DPE-4	1/20/2012	992.40	16.08	976.32	DPE-1,2,3,4
DPE-4	1/27/2012	992.40	17.49	974.91	DPE-1,2,3,4
DPE-4	2/16/2012	992.40	17.76	974.64	DPE-1,2,3,4
DPE-4	3/16/2012	992.40	17.70	974.70	DPE-1,2,3,4
DPE-4	3/27/2012	992.40	16.29	976.11	DPE-1,2,3,4
DPE-4	4/17/2012	992.40	17.61	974.79	DPE-1,2,3,4
DPE-4	5/17/2012	992.40	18.44	973.96	DPE-1,2,3,4
DPE-4	5/31/2012	992.40	17.71	974.69	DPE-1,2,3,4
DPE-4	6/14/2012	992.40	18.41	973.99	DPE-1,2,3,4
DPE-4	7/19/2012	992.40	18.08	974.32	DPE-3
DPE-4	8/23/2012	992.40	17.12	975.28	DPE-3
DPE-4	9/26/2012	992.40	17.14	975.26	DPE-3

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-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-5	7/25/2011	992.46	13.59	978.87	DPE System on all wells
DPE-5	8/28/2011	992.46	16.28	976.18	DPE System on all wells
DPE-5	9/29/2011	992.46	15.35	977.11	DPE-1,2,3,4
DPE-5	10/18/2011	992.46	14.24	978.22	DPE-1,2,3,4
DPE-5	10/27/2011	992.46	16.46	976.00	DPE-1,2,3,4
DPE-5	11/21/2011	992.46	17.18	975.28	DPE-1,2,3,4
DPE-5	1/20/2012	992.46	15.39	977.07	DPE-1,2,3,4
DPE-5	1/27/2012	992.46	16.44	976.02	DPE-1,2,3,4
DPE-5	2/16/2012	992.46	17.42	975.04	DPE-1,2,3,4
DPE-5	3/16/2012	992.46	17.41	975.05	DPE-1,2,3,4
DPE-5	3/27/2012	992.46	15.62	976.84	DPE-1,2,3,4
DPE-5	4/17/2012	992.46	17.08	975.38	DPE-1,2,3,4
DPE-5	5/17/2012	992.46	16.65	975.81	DPE-1,2,3,4
DPE-5	5/31/2012	992.46	15.58	976.88	DPE-1,2,3,4
DPE-5	6/14/2012	992.46	16.95	975.51	DPE-1,2,3,4
DPE-5	7/19/2012	992.46	17.22	975.24	DPE-3
DPE-5	8/23/2012	992.46	16.22	976.24	DPE-3
DPE-5	9/26/2012	992.46	16.31	976.15	DPE-3

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-6	12/3/2008	991.44	12.93	978.51	pre-system installation
DPE-6	6/8/2009	992.40	16.19	976.21	pre-system startup
DPE-6	7/9/2009	992.40	16.54	975.86	DPE system on DPE-1
DPE-6	7/9/2009	992.40	15.92	976.48	DPE system temporarily off
DPE-6	9/4/2009	992.40	15.68	976.72	DPE system on DPE-1
DPE-6	9/4/2009	992.40	15.65	976.75	DPE-1 on after replacing inlet screen
DPE-6	9/4/2009	992.40	15.81	976.59	DPE-1 on after replacing inlet filter
DPE-6	10/15/2009	992.40	15.94	976.46	DPE system on DPE-1
DPE-6	10/23/2009	992.40	14.56	977.84	DPE system off
DPE-6	11/16/2009	992.40	14.24	978.16	DPE System on all wells
DPE-6	12/17/2009	992.40	14.89	977.51	DPE System on all wells
DPE-6	1/14/2010	992.40	15.14	977.26	DPE System on all wells
DPE-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-6	7/25/2011	992.40	14.64	977.76	DPE System on all wells
DPE-6	8/28/2011	992.40	15.38	977.02	DPE System on all wells
DPE-6	9/29/2011	992.40	15.57	976.83	DPE-1,2,3,4
DPE-6	10/18/2011	992.40	14.20	978.20	DPE-1,2,3,4
DPE-6	10/27/2011	992.40	15.64	976.76	DPE-1,2,3,4
DPE-6	11/21/2011	992.40	15.81	976.59	DPE-1,2,3,4
DPE-6	1/20/2012	992.40	15.39	977.01	DPE-1,2,3,4
DPE-6	1/27/2012	992.40	16.29	976.11	DPE-1,2,3,4
DPE-6	2/16/2012	992.40	16.28	976.12	DPE-1,2,3,4
DPE-6	3/16/2012	992.40	16.40	976.00	DPE-1,2,3,4
DPE-6	3/27/2012	992.40	15.68	976.72	DPE-1,2,3,4
DPE-6	4/17/2012	992.40	16.19	976.21	DPE-1,2,3,4
DPE-6	5/17/2012	992.40	16.09	976.31	DPE-1,2,3,4
DPE-6	5/31/2012	992.40	15.56	976.84	DPE-1,2,3,4
DPE-6	6/14/2012	992.40	16.51	975.89	DPE-1,2,3,4
DPE-6	7/19/2012	992.40	16.96	975.44	DPE-3
DPE-6	8/23/2012	992.40	16.51	975.89	DPE-3
DPE-6	9/26/2012	992.40	16.36	976.04	DPE-3

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-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
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-7	7/25/2011	993.48	14.64	978.84	DPE System on all wells
DPE-7	8/28/2011	993.48	16.96	976.52	DPE System on all wells
DPE-7	9/29/2011	993.48	17.35	976.13	DPE-1,2,3,4
DPE-7	10/18/2011	993.48	16.25	977.23	DPE-1,2,3,4
DPE-7	10/27/2011	993.48	17.46	976.02	DPE-1,2,3,4
DPE-7	11/21/2011	993.48	17.14	976.34	DPE-1,2,3,4
DPE-7	1/20/2012	993.48	16.68	976.80	DPE-1,2,3,4
DPE-7	1/27/2012	993.48	17.64	975.84	DPE-1,2,3,4
DPE-7	2/16/2012	993.48	17.69	975.79	DPE-1,2,3,4
DPE-7	3/16/2012	993.48	17.71	975.77	DPE-1,2,3,4
DPE-7	3/27/2012	993.48	17.08	976.40	DPE-1,2,3,4
DPE-7	4/17/2012	993.48	17.41	976.07	DPE-1,2,3,4
DPE-7	5/17/2012	993.48	17.62	975.86	DPE-1,2,3,4
DPE-7	5/31/2012	993.48	17.11	976.37	DPE-1,2,3,4
DPE-7	6/14/2012	993.48	17.83	975.65	DPE-1,2,3,4
DPE-7	7/19/2012	993.48	18.41	975.07	DPE-3
DPE-7	8/23/2012	993.48	18.21	975.27	DPE-3
DPE-7	9/26/2012	993.48	17.81	975.67	DPE-3

TABLE 7

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

Well ID	Date Measured	Top of Casing Elevation ^{1,2}	Depth to Groundwater (feet)	Groundwater Elevation ³	System Status
DPE-8	12/3/2008	991.48	12.56	978.92	pre-system installation
DPE-8	6/8/2009	992.84	14.50	978.34	pre-system startup
DPE-8	7/9/2009	992.84	14.57	978.27	DPE system on DPE-1
DPE-8	7/9/2009	992.84	14.49	978.35	DPE system temporarily off
DPE-8	9/4/2009	992.84	14.29	978.55	DPE system on DPE-1
DPE-8	9/4/2009	992.84	14.31	978.53	DPE-1 on after replacing inlet screen
DPE-8	9/4/2009	992.84	14.28	978.56	DPE-1 on after replacing inlet filter
DPE-8	10/15/2009	992.84	14.01	978.83	DPE system on DPE-1
DPE-8	10/23/2009	992.84	13.18	979.66	DPE system off
DPE-8	11/16/2009	992.84	13.30	979.54	DPE System on all wells
DPE-8	12/17/2009	992.84	15.31	977.53	DPE System on all wells
DPE-8	1/14/2010	992.84	16.58	976.26	DPE System on all wells
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
DPE-8	7/25/2011	992.84	14.41	978.43	DPE System on all wells
DPE-8	8/28/2011	992.84	16.91	975.93	DPE System on all wells
DPE-8	9/29/2011	992.84	16.37	976.47	DPE-1,2,3,4
DPE-8	10/18/2011	992.84	15.41	977.43	DPE-1,2,3,4
DPE-8	10/27/2011	992.84	16.82	976.02	DPE-1,2,3,4
DPE-8	11/21/2011	992.84	17.11	975.73	DPE-1,2,3,4
DPE-8	1/20/2012	992.84	16.74	976.10	DPE-1,2,3,4
DPE-8	1/27/2012	992.84	17.43	975.41	DPE-1,2,3,4
DPE-8	2/16/2012	992.84	DRY	NA	DPE-1,2,3,4
DPE-8	3/16/2012	992.84	17.50	975.34	DPE-1,2,3,4
DPE-8	3/27/2012	992.84	16.78	976.06	DPE-1,2,3,4
DPE-8	4/17/2012	992.84	17.49	975.35	DPE-1,2,3,4
DPE-8	5/17/2012	992.84	DRY	NA	DPE-1,2,3,4
DPE-8	5/31/2012	992.84	16.99	975.85	DPE-1,2,3,4
DPE-8	6/14/2012	992.84	DRY	NA	DPE-1,2,3,4
DPE-8	7/19/2012	992.84	DRY	NA	DPE-3
DPE-8	8/23/2012	992.84	DRY	NA	DPE-3
DPE-8	9/26/2012	992.84	DRY	NA	DPE-3

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	6/8/2009	989.58	7.00	982.58	pre-system startup
Elevator Draintile Sump	6/25/2009	990.20	6.34	983.86	pre-system startup
Elevator Draintile Sump	7/9/2009	990.20	6.38	983.82	DPE system on DPE-1
Elevator Draintile Sump	9/4/2009	990.20	6.29	983.91	DPE system on DPE-1
Elevator Draintile Sump	10/15/2009	990.20	6.18	984.02	DPE system on DPE-1
Elevator Draintile Sump	10/23/2009	990.20	6.08	984.12	DPE system off
Elevator Draintile Sump	11/16/2009	990.20	5.72	984.48	DPE System on all wells
Elevator Draintile Sump	12/17/2009	990.20	6.48	983.72	DPE System on all wells
Elevator Draintile Sump	1/14/2010	990.20	6.46	983.74	DPE System on all wells
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

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	9/27/2010	990.20	6.02	984.18	DPE System on all wells
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
Elevator Draintile Sump	7/25/2011	990.20	5.58	984.62	DPE System on all wells
Elevator Draintile Sump	8/28/2011	990.20	6.56	983.64	DPE System on all wells
Elevator Draintile Sump	9/29/2011	990.20	6.97	983.23	DPE-1,2,3,4

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	10/18/2011	990.20	6.68	983.52	DPE-1,2,3,4
Elevator Draintile Sump	10/27/2011	990.20	7.01	983.19	DPE-1,2,3,4
Elevator Draintile Sump	11/21/2011	990.20	7.31	982.89	DPE-1,2,3,4
Elevator Draintile Sump	1/20/2012	990.20	7.33	982.87	DPE-1,2,3,4
Elevator Draintile Sump	1/27/2012	990.20	7.38	982.82	DPE-1,2,3,4
Elevator Draintile Sump	2/16/2012	990.20	7.44	982.76	DPE-1,2,3,4
Elevator Draintile Sump	3/16/2012	990.20	7.61	982.59	DPE-1,2,3,4
Elevator Draintile Sump	4/17/2012	990.20	7.97	982.23	DPE-1,2,3,4
Elevator Draintile Sump	5/17/2012	990.20	DRY	NA	DPE-1,2,3,4
Elevator Draintile Sump	5/31/2012	990.20	6.99	983.21	DPE-1,2,3,4
Elevator Draintile Sump	6/14/2012	990.20	7.11	983.09	DPE-1,2,3,4
Elevator Draintile Sump	7/19/2012	990.20	7.09	983.11	DPE-3
Elevator Draintile Sump	8/23/2012	990.20	6.88	983.32	DPE-3
Elevator Draintile Sump	9/26/2012	990.20	7.19	983.01	DPE-3

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.

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	6.6	-78.4
	3/1/2011	4.8	-84.3
	5/19/2011	5.0	-83.7
	8/28/2011	1.5	-95.1
	11/21/2011	1.5	-95.1
	2/16/2012	<1.0	-100.0
	5/17/2012	<1.0	-100.0
9/26/2012	<1.0	-100.0	
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	3.3	-96.8
	3/1/2011	<1.0	-100.0
	5/19/2011	<1.0	-100.0
	8/28/2011	1.2	-98.8
	11/21/2011	<1.0	-100.0
	2/15/2012	<1.0	-100.0
	5/17/2012	<1.0	-100.0
9/26/2012	<1.1	-99.0	
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	2,120	-85.0
	3/1/2011	322	-97.7
	5/19/2011	1,310	-90.7
	8/28/2011	590	-95.8
	11/21/2011	75	-99.5
	2/15/2012	16.1	-99.9
	5/17/2012	7.8	-99.9
9/26/2012	21.8	-99.8	

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-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	209	-42.4
	3/1/2011	145	-60.1
	5/19/2011	109	-70.0
	8/28/2011	107	-70.5
	11/21/2011	106	-70.8
	2/15/2012	47.1	-87.0
	5/17/2012	37.1	-89.8
9/26/2012	38.1	-89.5	
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	8.6	-96.7
	3/1/2011	4.8	-98.1
	5/19/2011	3.6	-98.6
	8/28/2011	3.6	-98.6
	11/21/2011	3.6	-98.6
	2/15/2012	2.9	-98.9
	5/17/2012	1.5	-99.4
9/26/2012	1.8	-99.3	
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
	8/28/2011	2.9	20.8
	11/21/2011	2.7	12.5
	2/15/2012	2.2	-8.3
	5/17/2012	1.1	-54.2
9/26/2012	<1.0	-100.0	

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-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
	8/28/2011	12.2	-98.0
	11/21/2011	32.5	-94.6
	2/15/2012	41.8	-93.0
	5/17/2012	28.7	-95.2
9/26/2012	17.4	-97.1	
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
	8/28/2011	309	-99.8
	11/21/2011	99	-99.9
	2/16/2012	26.4	-100.0
5/17/2012	38.8	-100.0	
9/26/2012	82.2	-99.9	
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
	8/28/2011	2,080	-94.6
	11/21/2011	890	-97.7
	2/16/2012	511	-98.7
	5/17/2012	206	-99.5
9/26/2012	39	-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-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
	8/28/2011	4,260	-97.2
	11/21/2011	5,310	-96.5
	2/16/2012	1,010	-99.3
	5/17/2012	3,690	-97.6
9/26/2012	75	-100.0	
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
	8/28/2011	771	-97.8
	11/21/2011	763	-97.9
	2/16/2012	830	-97.7
	5/17/2012	223	-99.4
9/26/2012	187	-99.5	
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
	8/28/2011	<1.0	-100.0
	11/21/2011	51	-96.2
	2/16/2012	70	-94.8
	5/17/2012	11	-99.2
9/26/2012	16	-98.8	

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
	8/28/2011	7.7	-95.9
	11/21/2011	1.9	-99.0
	2/16/2012	44.8	-76.2
	5/17/2012	<1.0	-100.0
9/26/2012	4.6	-99.0	
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
	8/28/2011	26.9	20.6
	11/21/2011	<1.0	-100.0
	2/16/2012	27.8	24.7
	5/17/2012	<1.0	-100.0
9/26/2012	<1.0	-100.0	
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
	8/28/2011	700.0	-95.1
	11/21/2011	389.0	-97.3
	2/16/2012	NS	NS
	5/17/2012	NS	NS
9/26/2012	NS	NS	

Notes:

NS - Not Sampled

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-1	DPE-1	DPE-1	DPE-1	DPE-1	DPE-1	DPE-1	DPE-1	
		9/26/2012	5/17/2012	2/16/2012	11/21/2011	8/28/2011	5/19/2011	03/01/11	12/22/10	
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
1,1,2-Trichlorotrifluoroethane	200000	1.1	1.1	<1.0	3.2	9.5	13.3	3.2	37.8	
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
1,2,3-Trichloropropane	40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<5.0
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
1,2-Dichloropropane	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<5.0
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0
Acetone	700	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
Bromoform	40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<40.0
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<10.0	<20.0
Carbon tetrachloride	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<20.0
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
Chloroform	30	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0
cis-1,2-Dichloroethene	50	<1.0	<1.0	<1.0	<1.0	2.9	1.3	<1.0	11.5	
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
Hexachloro-1,3-butadiene	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0	<20.0
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10.0
Methylene Chloride	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
Tetrachloroethene	5	82.2	38.8	26.4	99.2	309	185	101	1190	
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<50.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<4.0	<4.0	<4.0	<1.0	<1.0	<5.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<2.0
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<15.0

Notes:

NL: No Limit

NA*: Not Analyzed

NS: Not Sampled

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

Notes:

NL: No Limit

NA*: Not Analyzed

NS: Not Sampled

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 09/26/12	DPE-2 05/17/12	DPE-2 02/16/12	DPE-2 11/21/11	DPE-2 08/28/11	DPE-2 05/19/11	DPE-2 03/01/11	DPE-2 12/22/10
1,1,1,2-Tetrachloroethane	70	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
1,1,1-Trichloroethane	9000	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
1,1,2,2-Tetrachloroethane	2	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
1,1,2-Trichloroethane	3	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
1,1,2-Trichlorotrifluoroethane	200000	3.1	23.8	41.5	110	212	199	<25.0	356
1,1-Dichloroethane	70	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
1,1-Dichloroethene	6	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
1,1-Dichloropropene	NL	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
1,2,3-Trichlorobenzene	NL	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
1,2,3-Trichloropropane	40	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0	<100	<50.0
1,2,4-Trichlorobenzene	NL	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
1,2,4-Trimethylbenzene	NL	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
1,2-Dibromo-3-chloropropane	NL	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0	<100	<200
1,2-Dibromoethane (EDB)	.004	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
1,2-Dichlorobenzene	600	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
1,2-Dichloroethane	4	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
1,2-Dichloropropane	5	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0	<25.0	<50.0
1,3,5-Trimethylbenzene	100	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
1,3-Dichlorobenzene	NL	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
1,3-Dichloropropane	NL	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
1,4-Dichlorobenzene	10	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
2,2-Dichloropropane	NL	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0	<100	<200
2-Butanone (MEK)	4000	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0	<100	<200
2-Chlorotoluene	NL	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
4-Chlorotoluene	NL	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
4-Methyl-2-pentanone (MIBK)	300	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0	<100	<200
Acetone	700	<25.0	<50.0	<125	<250	<250	<25.0	<625	<500
Allyl chloride	30	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0	<100	<200
Benzene	2	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
Bromobenzene	NL	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
Bromochloromethane	NL	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
Bromodichloromethane	6	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
Bromoform	40	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0	<200	<400
Bromomethane	10	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0	<250	<200
Carbon tetrachloride	3	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<100	<200
Chlorobenzene	100	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
Chloroethane	300	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
Chloroform	30	<1.0	<2.0	<5.0	<10.0	<10.0	3.1	<25.0	<50.0
Chloromethane	NL	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0	<100	<200
cis-1,2-Dichloroethene	50	<1.0	<2.0	<5.0	<10.0	<10.0	5.5	<25.0	<50.0
cis-1,3-Dichloropropene	NL	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0	<100	<200
Dibromochloromethane	10	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
Dibromomethane	NL	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0	<100	<200
Dichlorodifluoromethane	1000	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
Dichlorofluoromethane	NL	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
Diethyl ether (Ethyl ether)	1000	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0	<100	<200
Ethylbenzene	700	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
Hexachloro-1,3-butadiene	1	<5.0	<10.0	<25.0	<50.0	<50.0	<5.0	<100	<200
Isopropylbenzene (Cumene)	300	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
m&p-Xylene	NL	<2.0	<4.0	<10.0	<20.0	<20.0	<2.0	<50.0	<100
Methylene Chloride	5	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0	<100	<200
Methyl-tert-butyl ether	70	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
Naphthalene	300	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0	<100	<200
n-Butylbenzene	NL	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
n-Propylbenzene	NL	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
o-Xylene	NL	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
p-Isopropyltoluene	NL	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
sec-Butylbenzene	NL	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
Styrene	NL	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
tert-Butylbenzene	NL	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
Tetrachloroethene	5	39.0	206	511	890	2080	1680	2,990	4,690
Tetrahydrofuran	100	<10.0	<20.0	<50.0	<100	<100	<10.0	<250	<500
Toluene	1000	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
trans-1,2-Dichloroethene	100	<1.0	<2.0	<5.0	<40.0	<40.0	<4.0	<25.0	<50.0
trans-1,3-Dichloropropene	NL	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0	<100	<200
Trichloroethene	5	<1.0	<2.0	<5.0	<10.0	<10.0	2.2	<25.0	<50.0
Trichlorofluoromethane	2000	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
Vinyl chloride	0.2	<0.40	<0.80	<2.0	<4.0	<4.0	<0.40	<10.0	<20.0
Xylene (Total)	10000	<3.0	<6.0	<15.0	<30.0	<30.0	<3.0	<75.0	<150

Notes:

NL: No Limit

NA*: Not Analyzed

NS: Not Sampled

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 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	<50.0	<1.0	<20.0	<100	<250	NA*
1,1,1-Trichloroethane	9000	<50.0	2.9	<20.0	<100	<250	NA*
1,1,2,2-Tetrachloroethane	2	<50.0	<1.0	<20.0	<100	<250	NA*
1,1,2-Trichloroethane	3	<50.0	<1.0	<20.0	<100	<250	NA*
1,1,2-Trichlorotrifluoroethane	200000	997	673	305	1,270	1,620	NA*
1,1-Dichloroethane	70	<50.0	<1.0	<20.0	<100	<250	NA*
1,1-Dichloroethene	6	<50.0	<1.0	<20.0	<100	<250	<500
1,1-Dichloropropene	NL	<50.0	<1.0	<20.0	<100	<250	NA*
1,2,3-Trichlorobenzene	NL	<50.0	<1.0	<20.0	<100	<250	NA*
1,2,3-Trichloropropane	40	<50.0	<1.0	<20.0	<100	<250	NA*
1,2,4-Trichlorobenzene	NL	<50.0	<1.0	<20.0	<100	<250	NA*
1,2,4-Trimethylbenzene	NL	<50.0	<1.0	<20.0	<100	<250	NA*
1,2-Dibromo-3-chloropropane	NL	<200	<4.0	<80.0	<400	<1000	NA*
1,2-Dibromoethane (EDB)	.004	<50.0	<1.0	<20.0	<100	<250	NA*
1,2-Dichlorobenzene	600	<50.0	<1.0	<20.0	<100	<250	NA*
1,2-Dichloroethane	4	<50.0	<1.0	<20.0	<100	<250	NA*
1,2-Dichloropropane	5	<50.0	1.3	<20.0	<100	<250	NA*
1,3,5-Trimethylbenzene	100	<50.0	<1.0	<20.0	<100	<250	NA*
1,3-Dichlorobenzene	NL	<50.0	<1.0	<20.0	<100	<250	NA*
1,3-Dichloropropane	NL	<50.0	<1.0	<20.0	<100	<250	NA*
1,4-Dichlorobenzene	10	<50.0	<1.0	<20.0	<100	<250	NA*
2,2-Dichloropropane	NL	<200	<4.0	<20.0	<400	<250	NA*
2-Butanone (MEK)	4000	<200	<4.0	<80.0	<400	<1000	NA*
2-Chlorotoluene	NL	<50.0	<1.0	<20.0	<100	<250	NA*
4-Chlorotoluene	NL	<50.0	<1.0	<20.0	<100	<250	NA*
4-Methyl-2-pentanone (MIBK)	300	<200	<4.0	<80.0	<400	<1000	NA*
Acetone	700	<500	<10.0	<200	<1000	<2500	NA*
Allyl chloride	30	<200	<4.0	<80.0	<400	<1000	NA*
Benzene	2	<50.0	<1.0	<20.0	<100	<250	NA*
Bromobenzene	NL	<50.0	<1.0	<20.0	<100	<250	NA*
Bromochloromethane	NL	<50.0	<1.0	<20.0	<100	<250	NA*
Bromodichloromethane	6	<50.0	<1.0	<20.0	<100	<250	NA*
Bromoform	40	<400	<8.0	<160	<800	<2000	NA*
Bromomethane	10	<200	<4.0	<80.0	<400	<1000	NA*
Carbon tetrachloride	3	<200	<4.0	<20.0	<400	<250	NA*
Chlorobenzene	100	<50.0	<1.0	<20.0	<100	<250	NA*
Chloroethane	300	<50.0	<1.0	<20.0	<100	<250	NA*
Chloroform	30	<50.0	3.7	<20.0	<100	<250	NA*
Chloromethane	NL	<200	<4.0	<80.0	<400	<1000	NA*
cis-1,2-Dichloroethene	50	<50.0	25.8	<20.0	<100	<250	<500
cis-1,3-Dichloropropene	NL	<200	<4.0	<80.0	<400	<1000	NA*
Dibromochloromethane	10	<50.0	<1.0	<20.0	<100	<250	NA*
Dibromomethane	NL	<200	<4.0	<20.0	<100	<250	NA*
Dichlorodifluoromethane	1000	<50.0	<1.0	<20.0	<100	<250	NA*
Dichlorofluoromethane	NL	<50.0	<1.0	<20.0	<100	<250	NA*
Diethyl ether (Ethyl ether)	1000	<200	<4.0	<80.0	<400	<1000	NA*
Ethylbenzene	700	<50.0	<1.0	<20.0	<100	<250	NA*
Hexachloro-1,3-butadiene	1	<200	<4.0	<80.0	<400	<1000	NA*
Isopropylbenzene (Cumene)	300	<50.0	<1.0	<20.0	<100	<250	NA*
m&p-Xylene	NL	<100	<2.0	<40.0	<200	<500	NA*
Methylene Chloride	5	<200	<4.0	<80.0	<400	<1000	NA*
Methyl-tert-butyl ether	70	<50.0	<1.0	<20.0	<100	<250	NA*
Naphthalene	300	<200	<4.0	<80.0	<400	<1000	NA*
n-Butylbenzene	NL	<50.0	<1.0	<20.0	<100	<250	NA*
n-Propylbenzene	NL	<50.0	<1.0	<20.0	<100	<250	NA*
o-Xylene	NL	<50.0	<1.0	<20.0	<100	<250	NA*
p-Isopropyltoluene	NL	<50.0	<1.0	<20.0	<100	<250	NA*
sec-Butylbenzene	NL	<50.0	<1.0	<20.0	<100	<250	NA*
Styrene	NL	<50.0	<1.0	<20.0	<100	<250	NA*
tert-Butylbenzene	NL	<50.0	<1.0	<20.0	<100	<250	NA*
Tetrachloroethene	5	12,100	5,800	2,710	10,600	32,000	38,200
Tetrahydrofuran	100	<50.0	<10.0	<200	<1000	<2500	NA*
Toluene	1000	<50.0	<1.0	<20.0	<100	<250	NA*
trans-1,2-Dichloroethene	100	<50.0	<1.0	<20.0	<100	<250	<500
trans-1,3-Dichloropropene	NL	<200	<4.0	<80.0	<400	<1000	NA*
Trichloroethene	5	<50.0	7.5	<20.0	<100	<250	<500
Trichlorofluoromethane	2000	<50.0	<1.0	<20.0	<100	<250	NA*
Vinyl chloride	0.2	<20.0	<0.40	<8.0	<40.0	<100	<200
Xylene (Total)	10000	<150	<3.0	<60.0	<300	<750	NA*

Notes:

NL: No Limit

NA*: Not Analyzed

NS: Not Sampled

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
		09/26/12	05/17/12	02/16/12	11/21/11	08/28/11	05/19/11	03/01/11	12/22/10
1,1,1,2-Tetrachloroethane	70	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
1,1,1-Trichloroethane	9000	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
1,1,2,2-Tetrachloroethane	2	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
1,1,2-Trichloroethane	3	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
1,1,2-Trichlorotrifluoroethane	200000	2.7	414	251	787	348	343	1030	78.8
1,1-Dichloroethane	70	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
1,1-Dichloroethene	6	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
1,1-Dichloropropene	NL	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
1,2,3-Trichlorobenzene	NL	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
1,2,3-Trichloropropane	40	<4.0	<80.0	<40.0	<100	<100	<80.0	<40.0	<10.0
1,2,4-Trichlorobenzene	NL	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
1,2,4-Trimethylbenzene	NL	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
1,2-Dibromo-3-chloropropane	NL	<4.0	<80.0	<40.0	<100	<100	<80.0	<40.0	<40.0
1,2-Dibromoethane (EDB)	.004	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
1,2-Dichlorobenzene	600	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
1,2-Dichloroethane	4	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
1,2-Dichloropropane	5	<4.0	<80.0	<40.0	<100	<100	<80.0	<40.0	<10.0
1,3,5-Trimethylbenzene	100	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
1,3-Dichlorobenzene	NL	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
1,3-Dichloropropane	NL	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
1,4-Dichlorobenzene	10	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
2,2-Dichloropropane	NL	<4.0	<80.0	<40.0	<100	<100	<80.0	<40.0	<40.0
2-Butanone (MEK)	4000	<4.0	<80.0	<40.0	<100	<100	<80.0	<40.0	<40.0
2-Chlorotoluene	NL	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
4-Chlorotoluene	NL	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
4-Methyl-2-pentanone (MIBK)	300	<4.0	<80.0	<40.0	<100	<100	<80.0	<40.0	<40.0
Acetone	700	<25.0	<500	<250	<625	<625	<500	<250	<100
Allyl chloride	30	<4.0	<80.0	<40.0	<100	<100	<80.0	<40.0	<40.0
Benzene	2	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
Bromobenzene	NL	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
Bromochloromethane	NL	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
Bromodichloromethane	6	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
Bromoform	40	<4.0	<80.0	<40.0	<100	<100	<80.0	<80.0	<80.0
Bromomethane	10	<4.0	<80.0	<40.0	<100	<100	<80.0	<40.0	<40.0
Carbon tetrachloride	3	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<40.0	<40.0
Chlorobenzene	100	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
Chloroethane	300	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
Chloroform	30	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
Chloromethane	NL	<4.0	<80.0	<40.0	<100	<100	<80.0	<40.0	<40.0
cis-1,2-Dichloroethene	50	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	19.6	<10.0
cis-1,3-Dichloropropene	NL	<4.0	<80.0	<40.0	<100	<100	<80.0	<40.0	<40.0
Dibromochloromethane	10	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
Dibromomethane	NL	<4.0	<80.0	<40.0	<100	<100	<80.0	<40.0	<40.0
Dichlorodifluoromethane	1000	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
Dichlorofluoromethane	NL	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
Diethyl ether (Ethyl ether)	1000	<4.0	<80.0	<40.0	<100	<100	<80.0	<40.0	<40.0
Ethylbenzene	700	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
Hexachloro-1,3-butadiene	1	<5.0	<100	<50.0	<125	<125	<100	<40.0	<40.0
Isopropylbenzene (Cumene)	300	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
m&p-Xylene	NL	<2.0	<40.0	<20.0	<50.0	<50.0	<40.0	<20.0	<20.0
Methylene Chloride	5	<4.0	<80.0	<40.0	<100	<100	<80.0	<40.0	<40.0
Methyl-tert-butyl ether	70	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
Naphthalene	300	<4.0	<80.0	<40.0	<100	<100	<80.0	<40.0	<40.0
n-Butylbenzene	NL	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
n-Propylbenzene	NL	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
o-Xylene	NL	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
p-Isopropyltoluene	NL	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
sec-Butylbenzene	NL	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
Styrene	NL	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
tert-Butylbenzene	NL	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
Tetrachloroethene	5	74.8	3690	1010	5310	4260	3220	12,700	1,450
Tetrahydrofuran	100	<10.0	<200	<100	<250	<250	<200	<100	<100
Toluene	1000	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
trans-1,2-Dichloroethene	100	<1.0	<20.0	<10.0	<100	<100	<80.0	<10.0	<10.0
trans-1,3-Dichloropropene	NL	<4.0	<80.0	<40.0	<100	<100	<80.0	<40.0	<40.0
Trichloroethene	5	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	12.3	<10.0
Trichlorofluoromethane	2000	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
Vinyl chloride	0.2	<0.40	<8.0	<4.0	<10.0	<10.0	<8.0	<4.0	<4.0
Xylene (Total)	10000	<3.0	<60.0	<30.0	<75.0	<75.0	<60.0	<30.0	<30.0

Notes:

NL: No Limit

NA*: Not Analyzed

NS: Not Sampled

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-3 08/18/10	DPE-3 05/13/10	DPE-3 02/22/10	DPE-3 11/17/09	DPE-3 09/28/09	DPE-3 12/10/08
1,1,1,2-Tetrachloroethane	70	<20.0	<1.0	<10.0	<200	<200	NA*
1,1,1-Trichloroethane	9000	<20.0	<1.0	<10.0	<200	<200	NA*
1,1,2,2-Tetrachloroethane	2	<20.0	<1.0	<10.0	<200	<200	NA*
1,1,2-Trichloroethane	3	<20.0	<1.0	<10.0	<200	<200	NA*
1,1,2-Trichlorotrifluoroethane	200000	2,260	49.5	67.1	1,920	843	NA*
1,1-Dichloroethane	70	<20.0	<1.0	<10.0	<200	<200	NA*
1,1-Dichloroethene	6	<20.0	<1.0	<10.0	<200	<200	<500
1,1-Dichloropropene	NL	<20.0	<1.0	<10.0	<200	<200	NA*
1,2,3-Trichlorobenzene	NL	<20.0	<1.0	<10.0	<200	<200	NA*
1,2,3-Trichloropropane	40	<20.0	<1.0	<10.0	<200	<200	NA*
1,2,4-Trichlorobenzene	NL	<20.0	<1.0	<10.0	<200	<200	NA*
1,2,4-Trimethylbenzene	NL	<20.0	<1.0	<10.0	<200	<200	NA*
1,2-Dibromo-3-chloropropane	NL	<80.0	<4.0	<40.0	<800	<800	NA*
1,2-Dibromoethane (EDB)	.004	<20.0	<1.0	<10.0	<200	<200	NA*
1,2-Dichlorobenzene	600	<20.0	<1.0	<10.0	<200	<200	NA*
1,2-Dichloroethane	4	<20.0	<1.0	<10.0	<200	<200	NA*
1,2-Dichloropropane	5	<20.0	<1.0	<10.0	<200	<200	NA*
1,3,5-Trimethylbenzene	100	<20.0	<1.0	<10.0	<200	<200	NA*
1,3-Dichlorobenzene	NL	<20.0	<1.0	<10.0	<200	<200	NA*
1,3-Dichloropropane	NL	<20.0	<1.0	<10.0	<200	<200	NA*
1,4-Dichlorobenzene	10	<20.0	<1.0	<10.0	<200	<200	NA*
2,2-Dichloropropane	NL	<80.0	<4.0	<10.0	<800	<200	NA*
2-Butanone (MEK)	4000	<80.0	<4.0	<40.0	<800	<800	NA*
2-Chlorotoluene	NL	<20.0	<1.0	<10.0	<200	<200	NA*
4-Chlorotoluene	NL	<20.0	<1.0	<10.0	<200	<200	NA*
4-Methyl-2-pentanone (MIBK)	300	<80.0	<4.0	<40.0	<800	<800	NA*
Acetone	700	<200	<10.0	<100	<2000	<2000	NA*
Allyl chloride	30	<80.0	<4.0	<40.0	<800	<800	NA*
Benzene	2	<20.0	<1.0	<10.0	<200	<200	NA*
Bromobenzene	NL	<20.0	<1.0	<10.0	<200	<200	NA*
Bromochloromethane	NL	<20.0	<1.0	<10.0	<200	<200	NA*
Bromodichloromethane	6	<20.0	<1.0	<10.0	<200	<200	NA*
Bromoform	40	<160	<8.0	<80.0	<1600	<1600	NA*
Bromomethane	10	<80.0	<4.0	<40.0	<800	<800	NA*
Carbon tetrachloride	3	<80.0	<4.0	<10.0	<800	<200	NA*
Chlorobenzene	100	<20.0	<1.0	<10.0	<200	<200	NA*
Chloroethane	300	<20.0	<1.0	<10.0	<200	<200	NA*
Chloroform	30	<20.0	<1.0	<10.0	<200	<200	NA*
Chloromethane	NL	<80.0	<4.0	<40.0	<800	<800	NA*
cis-1,2-Dichloroethene	50	59.2	2.6	<10.0	<200	<200	1,090
cis-1,3-Dichloropropene	NL	<80.0	<4.0	<40.0	<800	<800	NA*
Dibromochloromethane	10	<20.0	<1.0	<10.0	<200	<200	NA*
Dibromomethane	NL	<80.0	<4.0	<10.0	<200	<200	NA*
Dichlorodifluoromethane	1000	<20.0	<1.0	<10.0	<200	<200	NA*
Dichlorofluoromethane	NL	<20.0	<1.0	<10.0	<200	<200	NA*
Diethyl ether (Ethyl ether)	1000	<80.0	<4.0	<40.0	<800	<800	NA*
Ethylbenzene	700	<20.0	<1.0	<10.0	<200	<200	NA*
Hexachloro-1,3-butadiene	1	<80.0	<4.0	<40.0	<800	<800	NA*
Isopropylbenzene (Cumene)	300	<20.0	<1.0	<10.0	<200	<200	NA*
m&p-Xylene	NL	<40.0	<2.0	<20.0	<400	<400	NA*
Methylene Chloride	5	<80.0	<4.0	<40.0	<800	<800	NA*
Methyl-tert-butyl ether	70	<20.0	<1.0	<10.0	<200	<200	NA*
Naphthalene	300	<80.0	<4.0	<40.0	<800	<800	NA*
n-Butylbenzene	NL	<20.0	<1.0	<10.0	<200	<200	NA*
n-Propylbenzene	NL	<20.0	<1.0	<10.0	<200	<200	NA*
o-Xylene	NL	<20.0	<1.0	<10.0	<200	<200	NA*
p-Isopropyltoluene	NL	<20.0	<1.0	<10.0	<200	<200	NA*
sec-Butylbenzene	NL	<20.0	<1.0	<10.0	<200	<200	NA*
Styrene	NL	<20.0	<1.0	<10.0	<200	<200	NA*
tert-Butylbenzene	NL	<20.0	<1.0	<10.0	<200	<200	NA*
Tetrachloroethene	5	20,400	2,240	806	34,600	20,300	152,000
Tetrahydrofuran	100	<200	10.9	<100	<2000	<2000	NA*
Toluene	1000	<20.0	<1.0	<10.0	<200	<200	NA*
trans-1,2-Dichloroethene	100	<20.0	<1.0	<10.0	<200	<200	<500
trans-1,3-Dichloropropene	NL	<80.0	<4.0	<40.0	<800	<800	NA*
Trichloroethene	5	22.8	<1.0	<10.0	<200	<200	<500
Trichlorofluoromethane	2000	<20.0	<1.0	<10.0	<200	<200	NA*
Vinyl chloride	0.2	<8.0	<0.40	<4.0	<80.0	<80.0	<200
Xylene (Total)	10000	<60.0	<3.0	<30.0	<600	<600	NA*

Notes:

NL: No Limit

NA*: Not Analyzed

NS: Not Sampled

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
		09/26/12	05/17/12	02/16/12	11/21/11	08/28/11	05/19/11	03/01/11	12/22/10
1,1,1,2-Tetrachloroethane	70	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
1,1,1-Trichloroethane	9000	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
1,1,2,2-Tetrachloroethane	2	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
1,1,2-Trichloroethane	3	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
1,1,2-Trichlorotrifluoroethane	200000	9.7	9.5	54.4	99.7	93.8	60.2	127	39.4
1,1-Dichloroethane	70	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
1,1-Dichloroethene	6	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
1,1-Dichloropropene	NL	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
1,2,3-Trichlorobenzene	NL	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
1,2,3-Trichloropropane	40	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0	<40.0	<10.0
1,2,4-Trichlorobenzene	NL	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
1,2,4-Trimethylbenzene	NL	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
1,2-Dibromo-3-chloropropane	NL	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0	<40.0	<40.0
1,2-Dibromoethane (EDB)	.004	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
1,2-Dichlorobenzene	600	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
1,2-Dichloroethane	4	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
1,2-Dichloropropane	5	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0	<10.0	<10.0
1,3,5-Trimethylbenzene	100	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
1,3-Dichlorobenzene	NL	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
1,3-Dichloropropane	NL	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
1,4-Dichlorobenzene	10	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
2,2-Dichloropropane	NL	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0	<40.0	<40.0
2-Butanone (MEK)	4000	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0	<40.0	<40.0
2-Chlorotoluene	NL	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
4-Chlorotoluene	NL	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
4-Methyl-2-pentanone (MIBK)	300	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0	<40.0	<40.0
Acetone	700	<25.0	<50.0	<125	<125	<125	<50.0	<250	<100
Allyl chloride	30	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0	<40.0	<40.0
Benzene	2	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
Bromobenzene	NL	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
Bromochloromethane	NL	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
Bromodichloromethane	6	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
Bromoform	40	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0	<80.0	<80.0
Bromomethane	10	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0	<100	<40.0
Carbon tetrachloride	3	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<40.0	<40.0
Chlorobenzene	100	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
Chloroethane	300	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
Chloroform	30	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
Chloromethane	NL	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0	<40.0	<40.0
cis-1,2-Dichloroethene	50	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
cis-1,3-Dichloropropene	NL	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0	<40.0	<40.0
Dibromochloromethane	10	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
Dibromomethane	NL	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0	<40.0	<40.0
Dichlorodifluoromethane	1000	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
Dichlorofluoromethane	NL	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
Diethyl ether (Ethyl ether)	1000	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0	<40.0	<40.0
Ethylbenzene	700	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
Hexachloro-1,3-butadiene	1	<5.0	<10.0	<25.0	<25.0	<25.0	<10.0	<40.0	<40.0
Isopropylbenzene (Cumene)	300	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
m&p-Xylene	NL	<2.0	<4.0	<10.0	<10.0	<10.0	<4.0	<20.0	<20.0
Methylene Chloride	5	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0	<40.0	<40.0
Methyl-tert-butyl ether	70	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
Naphthalene	300	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0	<40.0	<40.0
n-Butylbenzene	NL	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
n-Propylbenzene	NL	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
o-Xylene	NL	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
p-Isopropyltoluene	NL	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
sec-Butylbenzene	NL	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
Styrene	NL	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
tert-Butylbenzene	NL	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
Tetrachloroethene	5	187	223	830	763	771	367	1,160	1,100
Tetrahydrofuran	100	<10.0	<20.0	<50.0	<50.0	<50.0	<20.0	<100	<100
Toluene	1000	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
trans-1,2-Dichloroethene	100	<1.0	<2.0	<5.0	<20.0	<20.0	<8.0	<10.0	<10.0
trans-1,3-Dichloropropene	NL	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0	<40.0	<40.0
Trichloroethene	5	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
Trichlorofluoromethane	2000	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
Vinyl chloride	0.2	<0.40	<0.80	<2.0	<2.0	<2.0	<0.80	<4.0	<4.0
Xylene (Total)	10000	<3.0	<6.0	<15.0	<15.0	<15.0	<6.0	<30.0	<30.0

Notes:

NL: No Limit

NA*: Not Analyzed

NS: Not Sampled

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-4 08/18/10	DPE-4 05/13/10	DPE-4 02/22/10	DPE-4 11/17/09	DPE-4 09/28/09	DPE-4 12/10/08
1,1,1,2-Tetrachloroethane	70	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,1,1-Trichloroethane	9000	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,1,2,2-Tetrachloroethane	2	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,1,2-Trichloroethane	3	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	181	48.1	41.9	464	339	NA*
1,1-Dichloroethane	70	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,1-Dichloroethene	6	<5.0	<1.0	<5.0	<50.0	<50.0	<500
1,1-Dichloropropene	NL	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2,3-Trichlorobenzene	NL	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2,3-Trichloropropane	40	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2,4-Trichlorobenzene	NL	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2,4-Trimethylbenzene	NL	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2-Dibromo-3-chloropropane	NL	<20.0	<4.0	<20.0	<200	<200	NA*
1,2-Dibromoethane (EDB)	.004	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2-Dichlorobenzene	600	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2-Dichloroethane	4	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2-Dichloropropane	5	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,3,5-Trimethylbenzene	100	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,3-Dichlorobenzene	NL	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,3-Dichloropropane	NL	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,4-Dichlorobenzene	10	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
2,2-Dichloropropane	NL	<20.0	<4.0	<5.0	<200	<50.0	NA*
2-Butanone (MEK)	4000	<20.0	<4.0	<20.0	<200	<200	NA*
2-Chlorotoluene	NL	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
4-Chlorotoluene	NL	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<20.0	<4.0	<20.0	<200	<200	NA*
Acetone	700	<50.0	<10.0	<50.0	<500	<500	NA*
Allyl chloride	30	<20.0	<4.0	<20.0	<200	<200	NA*
Benzene	2	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Bromobenzene	NL	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Bromochloromethane	NL	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Bromodichloromethane	6	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Bromoform	40	<40.0	<8.0	<40.0	<400	<400	NA*
Bromomethane	10	<20.0	<4.0	<20.0	<200	<200	NA*
Carbon tetrachloride	3	<20.0	<4.0	<5.0	<200	<50.0	NA*
Chlorobenzene	100	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Chloroethane	300	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Chloroform	30	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Chloromethane	NL	<20.0	<4.0	<20.0	<200	<200	NA*
cis-1,2-Dichloroethene	50	20.7	1.1	<5.0	<50.0	<50.0	<500
cis-1,3-Dichloropropene	NL	<20.0	<4.0	<20.0	<200	<200	NA*
Dibromochloromethane	10	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Dibromomethane	NL	<20.0	<4.0	<5.0	<50.0	<50.0	NA*
Dichlorodifluoromethane	1000	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Dichlorofluoromethane	NL	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Diethyl ether (Ethyl ether)	1000	<20.0	<4.0	<20.0	<200	<200	NA*
Ethylbenzene	700	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Hexachloro-1,3-butadiene	1	<20.0	<4.0	<20.0	<200	<200	NA*
Isopropylbenzene (Cumene)	300	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
m&p-Xylene	NL	<10.0	<2.0	<10.0	<100	<100	NA*
Methylene Chloride	5	<20.0	<4.0	<20.0	<200	<200	NA*
Methyl-tert-butyl ether	70	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Naphthalene	300	<20.0	<4.0	<20.0	<200	<200	NA*
n-Butylbenzene	NL	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
n-Propylbenzene	NL	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
o-Xylene	NL	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
p-Isopropyltoluene	NL	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
sec-Butylbenzene	NL	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Styrene	NL	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
tert-Butylbenzene	NL	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Tetrachloroethene	5	2,600	357	429	5,040	7,340	35,600
Tetrahydrofuran	100	<50.0	<10.0	<50.0	<500	<500	NA*
Toluene	1000	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
trans-1,2-Dichloroethene	100	<5.0	<1.0	<5.0	<50.0	<50.0	<500
trans-1,3-Dichloropropene	NL	<20.0	<4.0	<20.0	<200	<200	NA*
Trichloroethene	5	7.1	<1.0	<5.0	<50.0	<50.0	<500
Trichlorofluoromethane	2000	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Vinyl chloride	0.2	<2.0	<0.40	<2.0	<20.0	<20.0	<200
Xylene (Total)	10000	<15.0	<3.0	<15.0	<150	<150	NA*

Notes:

NL: No Limit

NA*: Not Analyzed

NS: Not Sampled

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
		09/26/12	05/17/12	02/16/12	11/21/11	08/28/11	05/19/11	03/01/11	12/22/10
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichlorotrifluoroethane	200000	1.2	<1.0	2.2	3.0	<1.0	5.2	13.9	<1.0
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	6	<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
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	700	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<10.0
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Carbon tetrachloride	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	30	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
cis-1,2-Dichloroethene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.3	<1.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0	<4.0
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	6.2	<4.0
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	16.4	11.1	69.5	51.2	<1.0	67.2	339	21.6
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<4.0	<4.0	<4.0	<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
Trichloroethene	5	<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
Vinyl chloride	0.2	<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

Notes:

NL: No Limit

NA*: Not Analyzed

NS: Not Sampled

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-5 08/18/10	DPE-5 05/13/10	DPE-5 02/22/10	DPE-5 11/17/09	DPE-5 09/24/09	DPE-5 12/10/08
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,1,1-Trichloroethane	9000	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	11.5	16.9	19.4	498	37.9	NA*
1,1-Dichloroethane	70	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,1-Dichloroethene	6	<1.0	<1.0	<5.0	<10.0	<10.0	<10.0
1,1-Dichloropropene	NL	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2,3-Trichloropropane	40	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2-Dichlorobenzene	600	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2-Dichloroethane	4	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2-Dichloropropane	5	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,3-Dichlorobenzene	NL	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,3-Dichloropropane	NL	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
2,2-Dichloropropane	NL	<4.0	<4.0	<5.0	<40.0	<10.0	NA*
2-Butanone (MEK)	4000	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
4-Chlorotoluene	NL	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Acetone	700	<10.0	<10.0	<50.0	<100	<100	NA*
Allyl chloride	30	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Benzene	2	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Bromobenzene	NL	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Bromodichloromethane	6	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Bromoform	40	<8.0	<8.0	<40.0	<80.0	<80.0	NA*
Bromomethane	10	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Carbon tetrachloride	3	<4.0	<4.0	<5.0	<40.0	<10.0	NA*
Chlorobenzene	100	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Chloroethane	300	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Chloroform	30	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Chloromethane	NL	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
cis-1,2-Dichloroethene	50	1.3	1.8	<5.0	<10.0	<10.0	<10.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Dibromomethane	NL	<4.0	<4.0	<5.0	<10.0	<10.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Dichlorofluoromethane	NL	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Ethylbenzene	700	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Hexachloro-1,3-butadiene	1	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
m&p-Xylene	NL	<2.0	<2.0	<10.0	<20.0	<20.0	NA*
Methylene Chloride	5	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Methyl-tert-butyl ether	70	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Naphthalene	300	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
o-Xylene	NL	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Styrene	NL	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Tetrachloroethene	5	124	205	486	1,450	875	1,340
Tetrahydrofuran	100	<10.0	<10.0	<50.0	<100	<100	NA*
Toluene	1000	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
trans-1,2-Dichloroethene	100	<1.0	<1.0	<5.0	<10.0	<10.0	<10.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Trichloroethene	5	<1.0	<1.0	<5.0	<10.0	<10.0	<10.0
Trichlorofluoromethane	2000	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Vinyl chloride	0.2	<0.40	<0.40	<2.0	<4.0	<4.0	<4.0
Xylene (Total)	10000	<3.0	<3.0	<15.0	<30.0	<30.0	NA*

Notes:

NL: No Limit

NA*: Not Analyzed

NS: Not Sampled

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-6	DPE-6	DPE-6	DPE-6	DPE-6	DPE-6	DPE-6	DPE-6
		09/26/12	05/17/12	02/16/12	11/21/11	08/28/11	05/19/11	03/01/11	12/22/10
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichlorotrifluoroethane	200000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.5
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	6	<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
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	700	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<10.0
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Carbon tetrachloride	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	30	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	1.1	1.2
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
cis-1,2-Dichloroethene	50	<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
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0	<4.0
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	7.3	<4.0
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	4.6	<1.0	44.8	1.9	7.7	23.4	3.9	77.1
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<4.0	<4.0	<4.0	<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
Trichloroethene	5	<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
Vinyl chloride	0.2	<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

Notes:

NL: No Limit

NA*: Not Analyzed

NS: Not Sampled

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 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	NA*
1,1,1-Trichloroethane	9000	<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	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	<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	NA*
1,1-Dichloroethene	6	<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	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichloropropane	40	<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	NA*
1,2,4-Trimethylbenzene	NL	<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	NA*
1,2-Dibromoethane (EDB)	.004	<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	NA*
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloropropane	5	<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	NA*
1,3-Dichlorobenzene	NL	<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	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
2,2-Dichloropropane	NL	<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	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Chlorotoluene	NL	<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	NA*
Acetone	700	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromoform	40	<8.0	<8.0	<8.0	<8.0	<8.0	NA*
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Carbon tetrachloride	3	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroform	30	1.0	1.1	1.6	1.6	<1.0	NA*
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
cis-1,2-Dichloroethene	50	<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	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dibromomethane	NL	<4.0	<4.0	<1.0	<1.0	<1.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dichlorofluoromethane	NL	<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	NA*
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Hexachloro-1,3-butadiene	1	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Isopropylbenzene (Cumene)	300	<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	NA*
Methylene Chloride	5	<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	NA*
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Tetrachloroethene	5	21.7	14.6	57.8	104	79.3	188
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
trans-1,2-Dichloroethene	100	<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	NA*
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
Trichlorofluoromethane	2000	<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	<0.80
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	NA*

Notes:

NL: No Limit

NA*: Not Analyzed

NS: Not Sampled

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 09/26/12	DPE-7 05/17/12	DPE-7 02/16/12	DPE-7 11/21/11	DPE-7 08/28/11	DPE-7 05/19/11	DPE-7 03/01/11	DPE-7 12/22/10
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichlorotrifluoroethane	200000	<1.0	<1.0	<1.0	<1.0	3.8	1.8	<1.0	2.2
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	6	<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
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	700	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<10.0
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Carbon tetrachloride	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	30	<1.0	<1.0	<1.0	<1.0	1.2	2.3	2.3	<1.0
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
cis-1,2-Dichloroethene	50	<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
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0	<4.0
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	6.6	<4.0
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	<1.0	<1.0	27.8	<1.0	26.9	15.9	7.1	23.2
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<4.0	<4.0	<4.0	<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
Trichloroethene	5	<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
Vinyl chloride	0.2	<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

Notes:

NL: No Limit

NA*: Not Analyzed

NS: Not Sampled

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 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	NA*
1,1,1-Trichloroethane	9000	<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	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	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	NA*
1,1-Dichloroethene	6	<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	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichloropropane	40	<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	NA*
1,2,4-Trimethylbenzene	NL	<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	NA*
1,2-Dibromoethane (EDB)	.004	<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	NA*
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloropropane	5	<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	NA*
1,3-Dichlorobenzene	NL	<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	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
2,2-Dichloropropane	NL	<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	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Chlorotoluene	NL	<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	NA*
Acetone	700	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromoform	40	<8.0	<8.0	<8.0	<8.0	<8.0	NA*
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Carbon tetrachloride	3	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroform	30	1.3	1.3	1.2	1.1	1.3	NA*
Chloromethane	NL	<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
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dibromomethane	NL	<4.0	<4.0	<1.0	<1.0	<1.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dichlorofluoromethane	NL	<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	NA*
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Hexachloro-1,3-butadiene	1	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Isopropylbenzene (Cumene)	300	<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	NA*
Methylene Chloride	5	<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	NA*
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Tetrachloroethene	5	189	25.7	7.3	55.2	5.2	22.3
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
trans-1,2-Dichloroethene	100	<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	NA*
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	2000	<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
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	NA*

Notes:

NL: No Limit

NA*: Not Analyzed

NS: Not Sampled

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-8 09/26/12	DPE-8 05/17/12	DPE-8 02/16/12	DPE-8 11/21/11	DPE-8 08/28/11	DPE-8 05/19/11	DPE-8 03/01/11	DPE-8 12/22/10
1,1,1,2-Tetrachloroethane	70	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0
1,1,1-Trichloroethane	9000	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0
1,1,2,2-Tetrachloroethane	2	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0
1,1,2-Trichloroethane	3	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0
1,1,2-Trichlorotrifluoroethane	200000	NS	NS	NS	62.0	32.4	77.9	48.7	33.5
1,1-Dichloroethane	70	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0
1,1-Dichloroethene	6	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0
1,1-Dichloropropene	NL	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0
1,2,3-Trichlorobenzene	NL	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0
1,2,3-Trichloropropane	40	NS	NS	NS	<20.0	<8.0	<20.0	<8.0	<1.0
1,2,4-Trichlorobenzene	NL	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0
1,2,4-Trimethylbenzene	NL	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0
1,2-Dibromo-3-chloropropane	NL	NS	NS	NS	<20.0	<8.0	<20.0	<8.0	<4.0
1,2-Dibromoethane (EDB)	.004	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0
1,2-Dichlorobenzene	600	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0
1,2-Dichloroethane	4	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0
1,2-Dichloropropane	5	NS	NS	NS	<20.0	<8.0	<20.0	<2.0	<1.0
1,3,5-Trimethylbenzene	100	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0
1,3-Dichlorobenzene	NL	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0
1,3-Dichloropropane	NL	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0
1,4-Dichlorobenzene	10	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0
2,2-Dichloropropane	NL	NS	NS	NS	<20.0	<8.0	<20.0	<8.0	<4.0
2-Butanone (MEK)	4000	NS	NS	NS	<20.0	<8.0	<20.0	<8.0	<4.0
2-Chlorotoluene	NL	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0
4-Chlorotoluene	NL	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0
4-Methyl-2-pentanone (MIBK)	300	NS	NS	NS	<20.0	<8.0	<20.0	<8.0	<4.0
Acetone	700	NS	NS	NS	<125	<50.0	<125	<50.0	<10.0
Allyl chloride	30	NS	NS	NS	<20.0	<8.0	<20.0	<8.0	<4.0
Benzene	2	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0
Bromobenzene	NL	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0
Bromochloromethane	NL	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0
Bromodichloromethane	6	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0
Bromoform	40	NS	NS	NS	<20.0	<8.0	<20.0	<16.0	<8.0
Bromomethane	10	NS	NS	NS	<20.0	<8.0	<20.0	<8.0	<4.0
Carbon tetrachloride	3	NS	NS	NS	<5.0	<2.0	<5.0	<8.0	<4.0
Chlorobenzene	100	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0
Chloroethane	300	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0
Chloroform	30	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0
Chloromethane	NL	NS	NS	NS	<20.0	<8.0	<20.0	<8.0	<4.0
cis-1,2-Dichloroethene	50	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0
cis-1,3-Dichloropropene	NL	NS	NS	NS	<20.0	<8.0	<20.0	<8.0	<4.0
Dibromochloromethane	10	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0
Dibromomethane	NL	NS	NS	NS	<20.0	<8.0	<20.0	<8.0	<4.0
Dichlorodifluoromethane	1000	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0
Dichlorofluoromethane	NL	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0
Diethyl ether (Ethyl ether)	1000	NS	NS	NS	<20.0	<8.0	<20.0	<8.0	<4.0
Ethylbenzene	700	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0
Hexachloro-1,3-butadiene	1	NS	NS	NS	<25.0	<10.0	<25.0	<8.0	<4.0
Isopropylbenzene (Cumene)	300	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0
m&p-Xylene	NL	NS	NS	NS	<10.0	<4.0	<10.0	<4.0	<2.0
Methylene Chloride	5	NS	NS	NS	<20.0	<8.0	<20.0	<8.0	<4.0
Methyl-tert-butyl ether	70	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0
Naphthalene	300	NS	NS	NS	<20.0	<8.0	<20.0	<8.0	<4.0
n-Butylbenzene	NL	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0
n-Propylbenzene	NL	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0
o-Xylene	NL	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0
p-Isopropyltoluene	NL	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0
sec-Butylbenzene	NL	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0
Styrene	NL	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0
tert-Butylbenzene	NL	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0
Tetrachloroethene	5	NS	NS	NS	389	700	698	415	262
Tetrahydrofuran	100	NS	NS	NS	<50.0	<20.0	<50.0	<20.0	<10.0
Toluene	1000	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0
trans-1,2-Dichloroethene	100	NS	NS	NS	<20.0	<8.0	<20.0	<2.0	<1.0
trans-1,3-Dichloropropene	NL	NS	NS	NS	<20.0	<8.0	<20.0	<8.0	<4.0
Trichloroethene	5	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0
Trichlorofluoromethane	2000	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0
Vinyl chloride	0.2	NS	NS	NS	<2.0	<0.80	<2.0	<0.80	<0.40
Xylene (Total)	10000	NS	NS	NS	<15.0	<6.0	<15.0	<6.0	<3.0

Notes:

NL: No Limit

NA*: Not Analyzed

NS: Not Sampled

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-8 08/18/10	DPE-8 05/13/10	DPE-8 02/22/10	DPE-8 11/17/09	DPE-8 09/24/09	DPE-8 12/10/08
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	5.9	2.2	3.8	34.2	43.4	NA*
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<10.0	<2.0	<100
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2,3-Trichloropropane	40	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2-Dichloropropane	5	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
2,2-Dichloropropane	NL	<4.0	<4.0	<1.0	<40.0	<2.0	NA*
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<40.0	24.1	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
Acetone	700	<10.0	<10.0	12.9	<100	<20.0	NA*
Allyl chloride	30	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
Benzene	2	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Bromobenzene	NL	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Bromodichloromethane	6	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Bromoform	40	<8.0	<8.0	<8.0	<80.0	<16.0	NA*
Bromomethane	10	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
Carbon tetrachloride	3	<4.0	<4.0	<1.0	<40.0	<2.0	NA*
Chlorobenzene	100	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Chloroethane	300	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Chloroform	30	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Chloromethane	NL	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
cis-1,2-Dichloroethene	50	<1.0	<1.0	<1.0	<10.0	<2.0	<100
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Dibromomethane	NL	<4.0	<4.0	<1.0	<10.0	<2.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
Ethylbenzene	700	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Hexachloro-1,3-butadiene	1	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
m&p-Xylene	NL	<2.0	<2.0	<2.0	<20.0	<4.0	NA*
Methylene Chloride	5	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Naphthalene	300	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
o-Xylene	NL	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Styrene	NL	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Tetrachloroethene	5	131	66.9	90.3	1,480	1,850	14,200
Tetrahydrofuran	100	<10.0	<10.0	18.4	<100	46.1	NA*
Toluene	1000	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<10.0	<2.0	<100
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
Trichloroethene	5	<1.0	<1.0	<1.0	<10.0	<2.0	<100
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<4.0	<0.80	<40.0
Xylene (Total)	10000	<3.0	<3.0	<3.0	<30.0	<6.0	NA*

Notes:

NL: No Limit

NA*: Not Analyzed

NS: Not Sampled

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-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14
		09/26/12	05/17/12	02/16/12	11/21/11	08/28/11	05/19/11	03/01/11	11/18/10
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichlorotrifluoroethane	200000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	6	<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
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	700	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<10.0
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Carbon tetrachloride	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	30	1.6	1.4	1.2	1.4	1.6	1.9	2.3	3.5
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
cis-1,2-Dichloroethene	50	<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
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0	<4.0
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	7.2	<4.0
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	<1.0	<1.0	<1.0	1.5	1.5	5.0	4.8	6.6
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<4.0	<4.0	<4.0	<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
Trichloroethene	5	<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
Vinyl chloride	0.2	<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

Notes:

NL: No Limit

NA*: Not Analyzed

NS: Not Sampled

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 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	NA*
1,1,1-Trichloroethane	9000	<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	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	<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	NA*
1,1-Dichloroethene	6	<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	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichloropropane	40	<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	NA*
1,2,4-Trimethylbenzene	NL	<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	NA*
1,2-Dibromoethane (EDB)	.004	<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	NA*
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloropropane	5	<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	NA*
1,3-Dichlorobenzene	NL	<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	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
2,2-Dichloropropane	NL	<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	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Chlorotoluene	NL	<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	NA*
Acetone	700	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromodichloromethane	6	<1.0	1.1	<1.0	<1.0	<1.0	NA*
Bromoform	40	<8.0	<8.0	<8.0	<8.0	<8.0	NA*
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Carbon tetrachloride	3	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroform	30	3.0	4.1	3.2	2.7	3.7	NA*
Chloromethane	NL	<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
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dibromomethane	NL	<4.0	<4.0	<1.0	<1.0	<1.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dichlorofluoromethane	NL	<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	NA*
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Hexachloro-1,3-butadiene	1	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Isopropylbenzene (Cumene)	300	<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	NA*
Methylene Chloride	5	<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	NA*
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Tetrachloroethene	5	1.8	3.1	3.0	7.1	4.2	30.6
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
trans-1,2-Dichloroethene	100	<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	NA*
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	2000	<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
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	NA*

Notes:

NL: No Limit

NA*: Not Analyzed

NS: Not Sampled

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 09/26/12	MW-15 05/17/12	MW-15 02/16/12	MW-15 11/21/11	MW-15 08/28/11	MW-15 05/19/11	MW-15 03/01/11	MW-15 11/18/10
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichlorotrifluoroethane	200000	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	2.0
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	6	<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
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	700	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<10.0
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Carbon tetrachloride	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	30	<1.0	<1.0	<1.0	<1.0	1.0	2.8	1.2	1.8
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
cis-1,2-Dichloroethene	50	<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
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0	<4.0
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	6.4	<4.0
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	3.3
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<4.0	<4.0	<4.0	<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
Trichloroethene	5	<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
Vinyl chloride	0.2	<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

Notes:

NL: No Limit

NA*: Not Analyzed

NS: Not Sampled

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 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	NA*
1,1,1-Trichloroethane	9000	<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	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	<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	NA*
1,1-Dichloroethene	6	<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	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichloropropane	40	<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	NA*
1,2,4-Trimethylbenzene	NL	<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	NA*
1,2-Dibromoethane (EDB)	.004	<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	NA*
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloropropane	5	<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	NA*
1,3-Dichlorobenzene	NL	<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	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
2,2-Dichloropropane	NL	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	5.1	<4.0	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Chlorotoluene	NL	<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	NA*
Acetone	700	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromoform	40	<8.0	<8.0	<8.0	<8.0	<8.0	NA*
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Carbon tetrachloride	3	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroform	30	<1.0	1.3	1.4	2.2	2.2	NA*
Chloromethane	NL	<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
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dibromomethane	NL	<4.0	<4.0	<1.0	<1.0	<1.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dichlorofluoromethane	NL	<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	NA*
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Hexachloro-1,3-butadiene	1	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Isopropylbenzene (Cumene)	300	<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	NA*
Methylene Chloride	5	<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	NA*
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Tetrachloroethene	5	1.3	2.8	5.7	9.5	15.7	104
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
trans-1,2-Dichloroethene	100	<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	NA*
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	2000	<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
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	NA*

Notes:

NL: No Limit

NA*: Not Analyzed

NS: Not Sampled

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-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16
		09/26/12	05/17/12	02/16/12	11/21/11	08/28/11	05/19/11	03/01/11
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0
1,1,2-Trichlorotrifluoroethane	200000	1.3	<1.0	<1.0	3.1	19.7	43.6	23.0
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0
1,2,3-Trichloropropane	40	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0
1,2-Dichloropropane	5	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<2.0
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0
Acetone	700	<25.0	<25.0	<25.0	<25.0	<50.0	<50.0	<50.0
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0
Benzene	2	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0
Bromoform	40	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<16.0
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<20.0
Carbon tetrachloride	3	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<8.0
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0
Chloroform	30	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0
cis-1,2-Dichloroethene	50	<1.0	<1.0	<1.0	1.0	7.3	4.1	2.6
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0
Hexachloro-1,3-butadiene	1	<5.0	<5.0	<5.0	<5.0	<10.0	<10.0	<8.0
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<4.0	<4.0	<4.0
Methylene Chloride	5	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0
Tetrachloroethene	5	21.8	7.8	16.1	75.0	590	1310	322
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<20.0	<20.0	<20.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<4.0	<8.0	<8.0	<2.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<2.0	2.0	<2.0
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<0.40	<0.80	<0.80	<0.80
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<6.0	<6.0	<6.0

Notes:

NL: No Limit

NA*: Not Analyzed

NS: Not Sampled

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 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	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,1,1-Trichloroethane	9000	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,1,2,2-Tetrachloroethane	2	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,1,2-Trichloroethane	3	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	127	63.8	39.3	261	1,390	779	NA*
1,1-Dichloroethane	70	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,1-Dichloroethene	6	<5.0	<5.0	<10.0	<50.0	<250	<10.0	<1.0
1,1-Dichloropropene	NL	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2,3-Trichlorobenzene	NL	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2,3-Trichloropropane	40	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2,4-Trichlorobenzene	NL	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2,4-Trimethylbenzene	NL	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2-Dibromo-3-chloropropane	NL	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
1,2-Dibromoethane (EDB)	.004	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2-Dichlorobenzene	600	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2-Dichloroethane	4	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2-Dichloropropane	5	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,3,5-Trimethylbenzene	100	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,3-Dichlorobenzene	NL	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,3-Dichloropropane	NL	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,4-Dichlorobenzene	10	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
2,2-Dichloropropane	NL	<20.0	<20.0	<40.0	<200	<1000	<10.0	NA*
2-Butanone (MEK)	4000	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
2-Chlorotoluene	NL	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
4-Chlorotoluene	NL	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Acetone	700	<50.0	<50.0	<100	<500	<2500	<100	NA*
Allyl chloride	30	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Benzene	2	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Bromobenzene	NL	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Bromochloromethane	NL	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Bromodichloromethane	6	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Bromoform	40	<40.0	<40.0	<80.0	<400	<2000	<80.0	NA*
Bromomethane	10	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Carbon tetrachloride	3	<20.0	<20.0	<40.0	<200	<1000	<10.0	NA*
Chlorobenzene	100	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Chloroethane	300	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Chloroform	30	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Chloromethane	NL	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
cis-1,2-Dichloroethene	50	12.6	<5.0	<10.0	<50.0	<250	24.0	133
cis-1,3-Dichloropropene	NL	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Dibromochloromethane	10	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Dibromomethane	NL	<20.0	<20.0	<40.0	<200	<250	<10.0	NA*
Dichlorodifluoromethane	1000	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Dichlorofluoromethane	NL	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Diethyl ether (Ethyl ether)	1000	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Ethylbenzene	700	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Hexachloro-1,3-butadiene	1	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Isopropylbenzene (Cumene)	300	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
m&p-Xylene	NL	<10.0	<10.0	<20.0	<100	<500	<20.0	NA*
Methylene Chloride	5	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Methyl-tert-butyl ether	70	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Naphthalene	300	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
n-Butylbenzene	NL	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
n-Propylbenzene	NL	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
o-Xylene	NL	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
p-Isopropyltoluene	NL	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
sec-Butylbenzene	NL	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Styrene	NL	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
tert-Butylbenzene	NL	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Tetrachloroethene	5	2120	696	815	4,390	21,000	6,890	14,100
Tetrahydrofuran	100	<50.0	<50.0	<100	<500	<2500	<100	NA*
Toluene	1000	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
trans-1,2-Dichloroethene	100	<5.0	<5.0	<10.0	<50.0	<250	<10.0	<1.0
trans-1,3-Dichloropropene	NL	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Trichloroethene	5	<5.0	<5.0	<10.0	<50.0	<250	<10.0	35.0
Trichlorofluoromethane	2000	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Vinyl chloride	0.2	<2.0	<2.0	<4.0	<20.0	<100	<4.0	<0.40
Xylene (Total)	10000	<15.0	<15.0	<30.0	<150	<750	<30.0	NA*

Notes:

NL: No Limit

NA*: Not Analyzed

NS: Not Sampled

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-17 09/26/12	MW-17 05/17/12	MW-17 02/16/12	MW-17 11/21/11	MW-17 08/28/11	MW-17 05/19/11	MW-17 03/01/11	MW-17 11/18/10
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichlorotrifluoroethane	200000	2.0	6.3	6.6	11.5	6.5	15.8	21.6	25.1
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	6	<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
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	700	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<10.0
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<10.0	<4.0
Carbon tetrachloride	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	30	1.1	1.6	1.2	1.4	<1.0	1.1	1.4	1.8
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
cis-1,2-Dichloroethene	50	<1.0	<1.0	<1.0	1.0	1.3	1.0	1.8	2.2
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0	<4.0
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	5	<4.0	<4.0	<4.0	<4.0	<4.0	6.1	<4.0	<4.0
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	23.3	37.1	47.1	106	107	109	145	209
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<4.0	<4.0	<4.0	<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
Trichloroethene	5	<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
Vinyl chloride	0.2	<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

Notes:

NL: No Limit

NA*: Not Analyzed

NS: Not Sampled

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-17 08/18/10	MW-17 05/12/10	MW-17 02/22/10	MW-17 11/16/09	MW-17 10/01/09	MW-17 12/03/08
1,1,1,2-Tetrachloroethane	70	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,1,1-Trichloroethane	9000	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,1,2-Trichloroethane	3	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	25.4	46.8	76.2	199	249	NA*
1,1-Dichloroethane	70	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,1-Dichloroethene	6	<1.0	<5.0	<5.0	<5.0	<2.0	<5.0
1,1-Dichloropropene	NL	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2,3-Trichloropropane	40	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2-Dichlorobenzene	600	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2-Dichloroethane	4	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2-Dichloropropane	5	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,3-Dichlorobenzene	NL	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,3-Dichloropropane	NL	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,4-Dichlorobenzene	10	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
2,2-Dichloropropane	NL	<4.0	<20.0	<20.0	<20.0	<2.0	NA*
2-Butanone (MEK)	4000	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
2-Chlorotoluene	NL	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
4-Chlorotoluene	NL	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Acetone	700	<10.0	<50.0	<50.0	<50.0	<20.0	NA*
Allyl chloride	30	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Benzene	2	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Bromobenzene	NL	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Bromochloromethane	NL	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Bromodichloromethane	6	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Bromoform	40	<8.0	<40.0	<40.0	<40.0	<16.0	NA*
Bromomethane	10	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Carbon tetrachloride	3	<4.0	<20.0	<20.0	<20.0	<2.0	NA*
Chlorobenzene	100	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Chloroethane	300	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Chloroform	30	2.5	<5.0	<5.0	<5.0	2.4	NA*
Chloromethane	NL	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
cis-1,2-Dichloroethene	50	2.4	<5.0	5.4	7.9	4.8	<5.0
cis-1,3-Dichloropropene	NL	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Dibromochloromethane	10	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Dibromomethane	NL	<4.0	<20.0	<20.0	<5.0	<2.0	NA*
Dichlorodifluoromethane	1000	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Dichlorofluoromethane	NL	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Ethylbenzene	700	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Hexachloro-1,3-butadiene	1	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
m&p-Xylene	NL	<2.0	<10.0	<10.0	<10.0	<4.0	NA*
Methylene Chloride	5	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Methyl-tert-butyl ether	70	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Naphthalene	300	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
n-Butylbenzene	NL	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
n-Propylbenzene	NL	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
o-Xylene	NL	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
p-Isopropyltoluene	NL	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
sec-Butylbenzene	NL	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Styrene	NL	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
tert-Butylbenzene	NL	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Tetrachloroethene	5	174	412	639	1,100	803	363
Tetrahydrofuran	100	<10.0	<50.0	<50.0	<50.0	<20.0	NA*
Toluene	1000	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
trans-1,2-Dichloroethene	100	<1.0	<5.0	<5.0	<5.0	<2.0	<5.0
trans-1,3-Dichloropropene	NL	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Trichloroethene	5	<1.0	<5.0	<5.0	<5.0	<2.0	<5.0
Trichlorofluoromethane	2000	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Vinyl chloride	0.2	<0.40	<2.0	<2.0	<2.0	<0.80	<2.0
Xylene (Total)	10000	<3.0	<15.0	<15.0	<15.0	<6.0	NA*

Notes:

NL: No Limit

NA*: Not Analyzed

NS: Not Sampled

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 09/26/12	MW-18 05/17/12	MW-18 02/16/12	MW-18 11/21/11	MW-18 08/28/11	MW-18 05/19/11	MW-18 03/01/11	MW-18 11/18/10
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichlorotrifluoroethane	200000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	6	<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
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	700	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<10.0
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Carbon tetrachloride	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	30	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
cis-1,2-Dichloroethene	50	<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
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0	<4.0
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	7.2	<4.0
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	1.8	1.5	2.9	3.6	3.6	3.6	4.8	8.6
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<4.0	<4.0	<4.0	<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
Trichloroethene	5	<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
Vinyl chloride	0.2	<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

Notes:

NL: No Limit

NA*: Not Analyzed

NS: Not Sampled

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 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	NA*
1,1,1-Trichloroethane	9000	<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	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	<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	NA*
1,1-Dichloroethene	6	<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	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichloropropane	40	<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	NA*
1,2,4-Trimethylbenzene	NL	<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	NA*
1,2-Dibromoethane (EDB)	.004	<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	NA*
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloropropane	5	<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	NA*
1,3-Dichlorobenzene	NL	<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	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
2,2-Dichloropropane	NL	<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	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Chlorotoluene	NL	<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	NA*
Acetone	700	<10.0	<10.0	12.2	<10.0	<10.0	NA*
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromoform	40	<8.0	<8.0	<8.0	<8.0	<8.0	NA*
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Carbon tetrachloride	3	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroform	30	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloromethane	NL	<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	<2.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dibromomethane	NL	<4.0	<4.0	<1.0	<1.0	<1.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dichlorofluoromethane	NL	<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	NA*
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Hexachloro-1,3-butadiene	1	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Isopropylbenzene (Cumene)	300	<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	NA*
Methylene Chloride	5	<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	NA*
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Tetrachloroethene	5	8.4	26.0	96.8	130	250	257
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
trans-1,2-Dichloroethene	100	<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	NA*
Trichloroethene	5	<1.0	<1.0	1.2	2.1	2.6	<2.0
Trichlorofluoromethane	2000	<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	<0.80
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	NA*

Notes:

NL: No Limit

NA*: Not Analyzed

NS: Not Sampled

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 09/26/12	MW-19 05/17/12	MW-19 02/16/12	MW-19 11/21/11	MW-19 08/28/11	MW-19 05/19/11	MW-19 03/01/11	MW-19 11/18/10
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichlorotrifluoroethane	200000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	6	<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
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	700	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<10.0
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Carbon tetrachloride	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	30	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
cis-1,2-Dichloroethene	50	<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
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0	<4.0
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	5.2	<4.0
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	<1.0	1.1	2.2	2.7	2.9	4.7	4.8	4.8
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<4.0	<4.0	<4.0	<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
Trichloroethene	5	<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
Vinyl chloride	0.2	<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

Notes:

NL: No Limit

NA*: Not Analyzed

NS: Not Sampled

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 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	NA*
1,1,1-Trichloroethane	9000	<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	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	<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	NA*
1,1-Dichloroethene	6	<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	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichloropropane	40	<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	NA*
1,2,4-Trimethylbenzene	NL	<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	NA*
1,2-Dibromoethane (EDB)	.004	<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	NA*
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloropropane	5	<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	NA*
1,3-Dichlorobenzene	NL	<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	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
2,2-Dichloropropane	NL	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	5.5	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Chlorotoluene	NL	<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	NA*
Acetone	700	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromoform	40	<8.0	<8.0	<8.0	<8.0	<8.0	NA*
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Carbon tetrachloride	3	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroform	30	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloromethane	NL	<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
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dibromomethane	NL	<4.0	<4.0	<1.0	<1.0	<1.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dichlorofluoromethane	NL	<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	NA*
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Hexachloro-1,3-butadiene	1	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Isopropylbenzene (Cumene)	300	<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	NA*
Methylene Chloride	5	<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	NA*
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Tetrachloroethene	5	4.2	7.2	12.9	13.6	17.4	2.4
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
trans-1,2-Dichloroethene	100	<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	NA*
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	2000	<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
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	NA*

Notes:

NL: No Limit

NA*: Not Analyzed

NS: Not Sampled

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-20 09/26/12	MW-20 05/17/12	MW-20 02/16/12	MW-20 11/21/11	MW-20 08/28/11	MW-20 05/19/11	MW-20 03/01/11	MW-20 11/18/10
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichlorotrifluoroethane	200000	1.3	1.5	2.1	2.5	<1.0	2.3	8.6	2.7
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	6	<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
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	700	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<10.0
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Carbon tetrachloride	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	30	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
cis-1,2-Dichloroethene	50	<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
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0	<4.0
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	5.2	<4.0
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	17.4	28.7	41.8	32.5	12.2	16.8	211	50.9
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<4.0	<4.0	<4.0	<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
Trichloroethene	5	<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
Vinyl chloride	0.2	<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

Notes:

NL: No Limit

NA*: Not Analyzed

NS: Not Sampled

1,620 Parameter detected above MDH Health Risk 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-20 08/18/10	MW-20 05/12/10	MW-20 02/23/10	MW-20 11/16/09	MW-20 10/01/09	MW-20 12/10/08
1,1,1,2-Tetrachloroethane	70	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,1,1-Trichloroethane	9000	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,1,2-Trichloroethane	3	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	2.8	11.2	20.9	37.4	33.5	NA*
1,1-Dichloroethane	70	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,1-Dichloroethene	6	<1.0	<2.0	<2.0	<2.0	<1.0	<5.0
1,1-Dichloropropene	NL	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,2,3-Trichloropropane	40	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,2-Dichlorobenzene	600	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,2-Dichloroethane	4	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,2-Dichloropropane	5	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,3-Dichlorobenzene	NL	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,3-Dichloropropane	NL	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,4-Dichlorobenzene	10	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
2,2-Dichloropropane	NL	<4.0	<8.0	<2.0	<8.0	<1.0	NA*
2-Butanone (MEK)	4000	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
2-Chlorotoluene	NL	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
4-Chlorotoluene	NL	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
Acetone	700	<10.0	<20.0	<20.0	<20.0	<10.0	NA*
Allyl chloride	30	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
Benzene	2	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Bromobenzene	NL	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Bromochloromethane	NL	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Bromodichloromethane	6	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Bromoform	40	<8.0	<16.0	<16.0	<16.0	<8.0	NA*
Bromomethane	10	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
Carbon tetrachloride	3	<4.0	<8.0	<2.0	<8.0	<1.0	NA*
Chlorobenzene	100	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Chloroethane	300	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Chloroform	30	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Chloromethane	NL	<4.0	<8.0	8.6	<8.0	<4.0	NA*
cis-1,2-Dichloroethene	50	<1.0	<2.0	<2.0	<2.0	<1.0	<5.0
cis-1,3-Dichloropropene	NL	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
Dibromochloromethane	10	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Dibromomethane	NL	<4.0	<8.0	<2.0	<2.0	<1.0	NA*
Dichlorodifluoromethane	1000	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Dichlorofluoromethane	NL	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
Ethylbenzene	700	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Hexachloro-1,3-butadiene	1	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
m&p-Xylene	NL	<2.0	<4.0	<4.0	<4.0	<2.0	NA*
Methylene Chloride	5	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
Methyl-tert-butyl ether	70	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Naphthalene	300	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
n-Butylbenzene	NL	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
n-Propylbenzene	NL	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
o-Xylene	NL	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
sec-Butylbenzene	NL	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Styrene	NL	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
tert-Butylbenzene	NL	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Tetrachloroethene	5	74.7	194	402	307	713	599
Tetrahydrofuran	100	<10.0	<20.0	36.1	<20.0	<10.0	NA*
Toluene	1000	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
trans-1,2-Dichloroethene	100	<1.0	<2.0	<2.0	<2.0	<1.0	<5.0
trans-1,3-Dichloropropene	NL	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
Trichloroethene	5	<1.0	2.9	<2.0	<2.0	<1.0	<5.0
Trichlorofluoromethane	2000	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Vinyl chloride	0.2	<0.40	<0.80	<0.80	<0.80	<0.40	<2.0
Xylene (Total)	10000	<3.0	<6.0	<6.0	<6.0	<3.0	NA*

Notes:

NL: No Limit

NA*: Not Analyzed

NS: Not Sampled

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

TABLE 11

NATURAL ATTENUATION ANALYTICAL RESULTS (ug/L)

MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Sample ID	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	09/28/2009	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-14	8/28/2011	19.5	1711	5.59	148	3.21	NR
MW-14	11/21/2011	19.7	1123	6.92	-14.2	3.99	NR
MW-14	2/15/2012	19.3	1174	7.44	-44.9	4.58	NR
MW-14	5/17/2012	9.9	1062	7.07	-17	1.9	NR
MW-14	9/26/2012	19.4	1043	7.53	-23	6.36	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-15	8/28/2011	19.9	2051	6.65	121	5.15	NR
MW-15	11/21/2011	18.5	14	7.38	-37	97.3	NR
MW-15	2/15/2012	18.4	841	7.61	-53	4.21	NR
MW-15	5/17/2012	9.9	1223	7.49	-20	1.9	NR
MW-15	9/26/2012	19.2	1295	7.67	-30	6.3	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-16	8/28/2011	19.4	3357	6.96	117	4.16	NR
MW-16	11/21/2011	19.7	2535	7.17	-26	3.35	NR
MW-16	2/15/2012	18.9	1492	7.68	-57	4.25	NR
MW-16	5/17/2012	9.9	1129	7.54	-24	1.9	NR
MW-16	9/26/2012	18.9	1126	7.4	-16	6.21	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-17	8/28/2011	19.1	2206	6.96	-116	4.1	NR
MW-17	11/21/2011	19.81	1927	7.26	-31	0.83	NR
MW-17	2/15/2012	19.04	1349	7.45	-45	0.42	NR
MW-17	5/17/2012	9.9	1000	7.54	-39	1.09	NR
MW-17	9/26/2012	18.2	753	7.03	2.1	3.02	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-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
MW-18	8/28/2011	18.9	2149	6.71	2.7	1.1	NR
MW-18	11/21/2011	19.8	1840	7.31	-34	1.03	NR
MW-18	2/15/2012	18.76	1937	7.5	-86	0.71	NR
MW-18	5/17/2012	9.9	2361	6.68	-46	5.6	NR
MW-18	9/26/2012	19.3	1680	6.98	4.9	2.9	NR
MW-19	12/3/2008	13.7	735	7.20	219	2.2	0.13
MW-19	10/1/2009	15.6	3667	7.03	163	225	NR
MW-19	11/16/2009	15.96	3482	6.13	226	3.03	NR
MW-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-19	8/28/2011	17.4	4618	6.59	47	4.7	NR
MW-19	11/21/2011	17.1	64	5.18	300	5.93	NR
MW-19	2/15/2012	17.33	3772	6.23	19.7	4.25	NR
MW-19	5/17/2012	9.9	4425	7.30	-3.4	7	NR
MW-19	9/26/2012	18.14	4655	6.71	17.3	8.16	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
MW-20	8/28/2011	18.7	5102	7.12	82	6.24	NR
MW-20	11/21/2011	18.45	5491	5.19	253	1.89	NR
MW-20	2/15/2012	17.95	5192	6.99	-22	4.42	NR
MW-20	5/17/2012	9.9	726	7.02	-21	1.06	NR
MW-20	9/26/2012	18.4	4277	6.99	3.6	3.9	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-1	8/28/2011	18.1	2162	7.01	3	4	NR
DPE-1	11/21/2011	18.4	16.21	7.69	-53	5.89	NR
DPE-1	2/16/2012	18.14	1381	7.08	-26	5.04	NR
DPE-1	5/17/2012	9.9	1023	7.83	-57	1.09	NR
DPE-1	9/26/2012	19.1	1170	8.5	-74	5.7	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-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-2	8/28/2011	18.2	3408	7.04	-62	3.6	NR
DPE-2	11/21/2011	18.5	2767	7.56	-46	2.02	NR
DPE-2	2/16/2012	18.6	1931	7.56	-51	2.37	NR
DPE-2	5/17/2012	18.9	2156	7.74	-61	4.37	NR
DPE-2	9/26/2012	19.2	943	7.9	-42	3.8	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
DPE-3	8/28/2011	NR	5894	7.61	-41	5.3	NR
DPE-3	11/21/2011	17.6	3012	7.54	-45	2.7	NR
DPE-3	2/16/2012	17.92	4634	7.07	-25	4.85	NR
DPE-3	5/17/2012	9.9	4383	7.45	-40	1.09	NR
DPE-3	9/26/2012	17	2777	8.3	-63	7.1	NR
DPE-4	12/3/2008	13.5	735	7.84	114	1.9	2000
DPE-4	9/28/2009	17.14	3230	8.25	87.4	8.22	NR
DPE-4	11/17/2009	17.49	4057	7.16	285	5.2	NR
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-4	8/28/2011	18.6	3318	7.63	-48	5.4	NR
DPE-4	11/21/2011	17.8	2265	7.38	-42	2.09	NR
DPE-4	2/16/2012	18.2	2692	7.5	-47	4.18	NR
DPE-4	5/17/2012	19.2	2579	7.45	-18	6.33	NR
DPE-4	9/26/2012	18.5	1891	8.1	-56	5.9	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-5	8/28/2011	18.6	3219	6.69	-44	5.9	NR
DPE-5	11/21/2011	18.5	2939	7.76	-56	4.77	NR
DPE-5	2/16/2012	18.19	2280	7.95	-72	5.11	NR
DPE-5	5/17/2012	9.9	1767	7.85	-15	1.09	NR
DPE-5	9/26/2012	18.3	1972	8.5	-73	7.2	NR

TABLE 12

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

Monitoring Well	Date Measured	Temp (Deg. C)	Conductivity @ 25 deg. C (uS/cm)	pH	Redox Potential (Eh)	Dissolved Oxygen	Head Space (ppm)
DPE-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-6	8/28/2011	18.7	1800	6.82	-3	4.6	NR
DPE-6	11/21/2011	19.3	648	8.15	-76	3.49	NR
DPE-6	2/16/2012	19.07	590	7.9	-69	3.59	NR
DPE-6	5/17/2012	14.9	611	7.93	-23	6.43	NR
DPE-6	9/26/2012	19.6	461	8	50	4.3	NR
DPE-7	12/3/2008	15.2	735	7.95	92.8	0.4	2.5
DPE-7	9/28/2009	17.15	2216	7.01	196	2.14	NR
DPE-7	11/17/2009	19.01	2095	7.97	193	5.01	NR
DPE-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
DPE-7	8/28/2011	16.9	1602	7.72	-51	9.4	NR
DPE-7	11/21/2011	19.7	727	7.92	-64	3.48	NR
DPE-7	2/16/2012	19.3	1478	7.5	-48	2.5	NR
DPE-7	5/17/2012	19.3	1366	7.68	-22	4.76	NR
DPE-7	9/26/2012	19.9	747	7.8	40	4.3	NR
DPE-8	12/3/2008	13.6	753	7.52	165	1.4	1056
DPE-8	9/28/2009	17.31	2826	7.93	460	6.61	NR
DPE-8	11/17/2009	1678	3604	7.2	226	5.19	NR
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
DPE-8	8/28/2011	18.7	5345	7.14	-20	4.09	NR
DPE-8	11/21/2011	18.55	5100	7.2	-28	3.38	NR
DPE-8	2/16/2012	NR*	NR*	NR*	NR*	NR*	NR*
DPE-8	5/17/2012	NR*	NR*	NR*	NR*	NR*	NR*
DPE-8	9/26/2012	NR*	NR*	NR*	NR*	NR*	NR*

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

NR - Not Recorded

NR* - Not Recorded, well was dry

Attachments

Attachment A

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	300	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	
7/25/2011	900	171	745	606,917	MF	14.21	14.4	25.0	490	541	
8/28/2011	1100	197	875	645,249	63,442	12.80	12.9	14.0	490	NA	
9/29/2011	1140	198	921	673,352	94,268	12.07	12.5	15.0	490	515	
10/18/2011	NR	199	978	681,235	NR	NR	NR	NR	560	NR	
10/27/2011 ²	800	199	992	694,330	115,245	11.60	12.0	15.0	560	541	
11/21/2011	1100	199	1040	716,049	143,520	12.08	12.2	16.5	NR	541	
1/20/2012	800	199	1057	725,742	153,493	12.60	12.7	18.0	610	541	
1/27/2012	900	199	1065	731,337	159,280	12.20	12.2	17.0	610	541	
2/16/2012	900	199	1090	746,725	175,164	10.10	10.0	16.0	610	541	
3/16/2012	1100	199	1127	757,124	184,976	12.40	12.5	20.0	610	541	
3/27/2012	700	200	1142	764,672	192,639	11.91	12.0	18.0	610	NR	
4/17/2012	1025	206	1201	783,561	210,594	12.20	12.2	21.0	610	541	
5/17/2012	1000	211	1255	809,091	236,394	11.96	12.0	21.0	610	541	
5/31/2012	1059	215	1290	819,567	NR	11.20	11.2	20.0	610	NR	
6/14/2012	1017	220	1335	830,565	256,390	10.90	11.0	26.0	610	541	
7/19/2012	1111	220	1364	835,414	260,681	9.80	9.8	35.0	610	541	
8/23/2012	730	302	1399	849,507	275,367	13.20	13.2	12.0	610	541	
9/26/2012	2012	302	1414	860,318	286,603	14.00	14.0	8.0	610	541	

Notes:

NR: Not recorded.

NP: Not pumping

MF: Meter Failure

1. Discharge flowmeter malfunction caused invalid field totalizer reading; therefore, analog flow totalizer was used.

2. Analog flow totalizer reading estimated from field readings from Oct. 27 and Sept 29, 2011.

Attachment A - Table 3

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

Date	Time	AS Blower Hours	AS Discharge Pump Hours	AS Blower Pressure (in. H ₂ O)	AS Exhaust Pressure (in. H ₂ O)	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	25.7	
7/25/2011	900	5575	405	17	8	25	4.3	
8/28/2011	1100	5892	432	16	9	26	0.0	
9/29/2011	1140	6332	455	17	7	25	0.0	
10/18/2011	NR	6398	458	NR	NR	NR	NR	
10/27/2011	800	6524	465	17	9	25	ND	
11/21/2011	1100	6884	485	17	9	24	ND	
1/20/2012	800	7025	493	16	9	25	ND	
1/27/2012	900	7103	498	16	8	25	ND	
2/16/2012	900	7329	510	17	9	24	ND	
3/16/2012	1100	7664	530	16	8	26	NR	
3/27/2012	700	7767	535	16	9	25	ND	
4/17/2012	1025	8019	549	16	10	24	ND	
5/17/2012	1000	8359	563	16	9	24	ND	
5/31/2012	1059	8498	574	16	8	NR	ND	
6/14/2012	1017	8602	586	17	9	18	ND	
7/19/2012	1111	8903	602	16	8	19	ND	
8/23/2012	730	9110	615	9	16	19	ND	
9/26/2012	2012	9268	626	16	9	19	ND	

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
7/25/2011	60	145	125	120	110	105	40	80
8/28/2011	58	158	130	140	120	100	49	75
9/29/2011	50	150	135	130	110	150	65	80
10/27/2011	50	150	124	89	100	128	48	74
11/21/2011	49	151	148	125	115	105	49	75
1/20/2012	50	115	98	75	100	98	33	65
1/27/2012	40	148	130	120	110	105	40	80
2/16/2012	40	151	147	128	110	108	50	80
3/16/2012	48	130	115	80	80	105	48	80
3/27/2012	48	150	125	120	110	100	28	78
4/17/2012	48	149	130	130	110	100	49	75
5/17/2012	42	98	126	90	100	98	30	68
5/31/2012	32	149	126	140	85	100	48	95
6/14/2012	35	130	126	90	90	120	50	80
7/19/2012	35	148	126	125	100	109	48	80
8/23/2012	27	112	75	95	78	75	25	60
9/26/2012	40	128	135	128	115	109	49	80

Notes:

Bold indicates the current operating extraction well.

NR: Not recorded

* - DPE-1 issues

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-1	25-Jul-11	55.1	35.3	21.53
DPE-1	28-Aug-11	27.5	45.5	21.4
DPE-1	29-Sep-11	12.2	46.7	22.41
DPE-1	27-Oct-11	41.7	30.0	22.6
DPE-1	21-Nov-11	580.0	44.0	22.08
DPE-1	20-Jan-12	5.7	51.6	16.79
DPE-1	27-Jan-12	12.0	34.3	20.3
DPE-1	16-Feb-12	3.5	30.6	20.65
DPE-1	16-Mar-12	NA	23.0	21.14
DPE-1	27-Mar-12	10.5	29.6	20.73
DPE-1	17-Apr-12	11.3	25.5	21.05
DPE-1	17-May-12	13.1	16.0	20.9
DPE-1	31-May-12	31.4	24.0	20.12
DPE-1	14-Jun-12	6.9	37.0	19.4
DPE-1	19-Jul-12	10.9	40.9	18.6
DPE-1	23-Aug-12	13.6	30.9	14.4
DPE-1	26-Sep-12	6.9	30.4	19.11

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-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
DPE-2	25-Jul-11	13.5	38.1	21.43
DPE-2	28-Aug-11	10.2	45.0	21.8
DPE-2	29-Sep-11	11.8	46.0	22.63
DPE-2	27-Oct-11	177.0	38.0	22
DPE-2	21-Nov-11	365.0	39.0	22.4
DPE-2	20-Jan-12	7.2	46.3	16.76
DPE-2	27-Jan-12	6.4	29.2	20.19
DPE-2	16-Feb-12	6.0	26.7	21.6
DPE-2	16-Mar-12	NA	30.0	21.5
DPE-2	27-Mar-12	14.5	25.5	21.5
DPE-2	17-Apr-12	6.4	21.6	21.69
DPE-2	17-May-12	12.1	20.4	20.87
DPE-2	31-May-12	21.2	20.0	20
DPE-2	14-Jun-12	5.0	29.0	19.7
DPE-2	19-Jul-12	5.4	31.5	18.7
DPE-2	23-Aug-12	3.6	36.0	10.8
DPE-2	26-Sep-12	4.3	31.3	19.18

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-3	25-Jul-11	23.2	63.2	18.24
DPE-3	28-Aug-11	62.8	71.0	19.4
DPE-3	29-Sep-11	18.7	73.6	19.53
DPE-3	27-Oct-11	201.0	70.6	19.2
DPE-3	21-Nov-11	429.0	68.0	19.6
DPE-3	20-Jan-12	16.2	52.3	16.03
DPE-3	27-Jan-12	4.2	50.6	17.8
DPE-3	16-Feb-12	16.8	43.0	18.09
DPE-3	16-Mar-12	NA	44.0	18.5
DPE-3	27-Mar-12	20.4	41.0	18.2
DPE-3	17-Apr-12	22.5	35.2	18.74
DPE-3	17-May-12	16.4	31.3	17.2
DPE-3	31-May-12	54.5	31.0	18.8
DPE-3	14-Jun-12	15.8	46.0	19
DPE-3	19-Jul-12	15.6	49.2	18.3
DPE-3	23-Aug-12	11.4	33.0	10.8
DPE-3	26-Sep-12	11.6	45.8	19.3

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-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
DPE-4	25-Jul-11	3.1	56.3	19.04
DPE-4	28-Aug-11	14.0	63.0	20.4
DPE-4	29-Sep-11	2.8	66.0	20.36
DPE-4	27-Oct-11	156.0	64.0	20.5
DPE-4	21-Nov-11	120.0	65.0	20
DPE-4	20-Jan-12	8.0	51.3	16.41
DPE-4	27-Jan-12	0.0	40.9	19.7
DPE-4	16-Feb-12	8.6	37.0	19.17
DPE-4	16-Mar-12	NA	35.0	19.6
DPE-4	27-Mar-12	14.6	35.0	19.4
DPE-4	17-Apr-12	13.0	31.5	19.48
DPE-4	17-May-12	0.5	60.1	14.2
DPE-4	31-May-12	6.8	27.0	19.34
DPE-4	14-Jun-12	8.5	38.0	19
DPE-4	19-Jul-12	8.5	40.9	18.04
DPE-4	23-Aug-12	3.3	34.0	12.6
DPE-4	26-Sep-12	5.0	42.0	12.45

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-5	25-Jul-11	0.2	79.3	15.86
DPE-5	28-Aug-11	0.7	93.0	17.2
DPE-5	29-Sep-11	6.4	104.6	16.87
DPE-5	27-Oct-11	197.0	90.0	17.8
DPE-5	21-Nov-11	270.0	97.6	16.9
DPE-5	20-Jan-12	0.0	70.7	15.29
DPE-5	27-Jan-12	0.0	67.8	15.48
DPE-5	16-Feb-12	2.2	59.0	15.5
DPE-5	16-Mar-12	NA	52.0	17.6
DPE-5	27-Mar-12	3.6	58.0	15.9
DPE-5	17-Apr-12	4.2	46.9	16.6
DPE-5	17-May-12	1.2	46.0	16.12
DPE-5	31-May-12	2.1	36.0	18.5
DPE-5	14-Jun-12	2.4	60.0	15
DPE-5	19-Jul-12	3.5	60.4	16.5
DPE-5	23-Aug-12	1.1	42.0	11.6
DPE-5	26-Sep-12	1.4	59.0	17.2

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-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
DPE-6	25-Jul-11	2.5	56.3	19.21
DPE-6	28-Aug-11	4.8	62.0	20.6
DPE-6	29-Sep-11	6.6	69.8	20.26
DPE-6	27-Oct-11	127.0	65.0	20.1
DPE-6	21-Nov-11	40.0	62.0	20.4
DPE-6	20-Jan-12	0.0	57.8	16.12
DPE-6	27-Jan-12	0.0	46.7	18.49
DPE-6	16-Feb-12	0.9	37.8	18.68
DPE-6	16-Mar-12	NA	40.0	18.9
DPE-6	27-Mar-12	2.1	36.0	19.1
DPE-6	17-Apr-12	1.7	32.3	19.3
DPE-6	17-May-12	0.8	29.6	18.1
DPE-6	31-May-12	1.0	28.0	18.3
DPE-6	14-Jun-12	1.4	45.0	16
DPE-6	19-Jul-12	3.7	49.6	15.7
DPE-6	23-Aug-12	4.8	34.0	10.5
DPE-6	26-Sep-12	1.8	46.0	17.2

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-7	25-Jul-11	0.1	60.4	18.95
DPE-7	28-Aug-11	0.0	67.0	19.8
DPE-7	29-Sep-11	6.0	82.0	18.5
DPE-7	27-Oct-11	88.0	66.0	19.7
DPE-7	21-Nov-11	10.0	66.0	19.7
DPE-7	20-Jan-12	0.0	57.8	15.9
DPE-7	27-Jan-12	0.0	52.4	17.66
DPE-7	16-Feb-12	0.3	42.1	18.2
DPE-7	16-Mar-12	NA	46.0	17.9
DPE-7	27-Mar-12	0.2	48.0	17.4
DPE-7	17-Apr-12	0.7	34.3	18.8
DPE-7	17-May-12	0.6	32.3	17.16
DPE-7	31-May-12	0.5	30.0	18.4
DPE-7	14-Jun-12	0.8	49.0	17
DPE-7	19-Jul-12	2.2	53.5	15.72
DPE-7	23-Aug-12	1.1	30.0	11.3
DPE-7	26-Sep-12	0.2	50.0	17.3

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-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
DPE-8	25-Jul-11	0.5	87.0	15.4
DPE-8	28-Aug-11	0.0	104.0	15.38
DPE-8	29-Sep-11	0.3	108.0	16.7
DPE-8	27-Oct-11	79.8	102.0	16.9
DPE-8	21-Nov-11	0.6	94.0	17.3
DPE-8	20-Jan-12	0.6	72.7	15.22
DPE-8	27-Jan-12	0.0	71.0	15.06
DPE-8	16-Feb-12	0.9	63.6	15.2
DPE-8	16-Mar-12	NA	66.0	15.13
DPE-8	27-Mar-12	0.9	64.0	15.3
DPE-8	17-Apr-12	1.1	55.3	15.62
DPE-8	17-May-12	1.0	44.7	16.45
DPE-8	31-May-12	1.2	34.0	18.4
DPE-8	14-Jun-12	1.1	65.0	14
DPE-8	19-Jul-12	1.8	65.5	13.4
DPE-8	23-Aug-12	0.7	44.0	10.8
DPE-8	26-Sep-12	0.0	66.0	16.8

* - 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	21.87	0.03
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	15.12	6.78	4.4	21.84	0.06
DPE-1	25-Jul-11	21.9	14.35	7.55	4.9	21.14	0.76
DPE-1	28-Aug-11	21.9	13.04	8.86	5.8	21.6	0.3
DPE-1	29-Sep-11	21.9	15.89	6.01	3.9	21.89	0.01
DPE-1	18-Oct-11	21.9	14.89	7.01	4.6	21.5	0.4
DPE-1	27-Oct-11	21.9	16.65	5.25	3.4	21.8	0.1
DPE-1	21-Nov-11	21.9	17.4	4.5	2.9	21.2	0.7
DPE-1	20-Jan-12	21.9	15.39	6.51	4.2	21.9	0
DPE-1	27-Jan-12	21.9	17.19	4.71	3.1	21.8	0.1
DPE-1	16-Feb-12	21.9	18.28	3.62	2.4	21.7	0.2
DPE-1	16-Mar-12	21.9	19.3	2.6	1.7	21	0.9
DPE-1	27-Mar-12	21.9	17.95	3.95	2.6	21.6	0.3
DPE-1	17-Apr-12	21.9	16.67	5.23	3.4	21.8	0.1
DPE-1	17-May-12	21.9	16.93	4.97	3.2	21.1	0.8
DPE-1	14-Jun-12	21.9	17.05	4.85	3.2	21.6	0.3
DPE-1	19-Jul-12	21.9	17.54	4.36	2.8	21.8	0.1
DPE-1	23-Aug-12	21.9	16.68	5.22	3.4	21.6	0.3
DPE-1	26-Sep-12	21.9	16.41	5.49	3.6	16.5	5.4

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-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
DPE-2	25-Jul-11	20.5	14.83	5.67	3.7	20.15	0.35
DPE-2	28-Aug-11	20.5	17.81	2.69	1.8	20.2	0.3
DPE-2	29-Sep-11	20.5	15.78	4.72	3.1	20.5	0
DPE-2	18-Oct-11	20.5	14.78	5.72	3.7	20.5	0
DPE-2	27-Oct-11	20.5	15.94	4.56	3.0	20.1	0.4
DPE-2	21-Nov-11	20.5	16.49	4.01	2.6	20.4	0.1
DPE-2	20-Jan-12	20.5	15.94	4.56	3.0	20.5	0
DPE-2	27-Jan-12	20.5	16.98	3.52	2.3	21	-0.5
DPE-2	16-Feb-12	20.5	17.06	3.44	2.2	20	0.5
DPE-2	16-Mar-12	20.5	17.04	3.46	2.3	20.5	0
DPE-2	27-Mar-12	20.5	16.29	4.21	2.7	20.4	0.1
DPE-2	17-Apr-12	20.5	16.76	3.74	2.4	20.6	-0.1
DPE-2	17-May-12	20.5	16.63	3.87	2.5	20.4	0.1
DPE-2	14-Jun-12	20.5	17.1	3.4	2.2	20.2	0.3
DPE-2	19-Jul-12	20.5	17.79	2.71	1.8	20.6	-0.1
DPE-2	23-Aug-12	20.5	16.9	3.6	2.4	20.6	-0.1
DPE-2	26-Sep-12	20.5	16.99	3.51	2.3	17	3.5

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-3	25-Jul-11	17.1	14.11	2.99	2.0	19.2	-2.1
DPE-3	28-Aug-11	17.1	15.88	1.22	0.8	17.3	-0.2
DPE-3	29-Sep-11	17.1	16.56	0.54	0.4	17.1	0
DPE-3	18-Oct-11	17.1	14.89	2.21	1.4	17.3	-0.2
DPE-3	27-Oct-11	17.1	16.82	0.28	0.2	17.5	-0.4
DPE-3	21-Nov-11	17.1	16.51	0.59	0.4	17.2	-0.1
DPE-3	20-Jan-12	17.1	16.15	0.95	0.6	17	0.1
DPE-3	27-Jan-12	17.1	17.6	-0.5	-0.3	17.3	-0.2
DPE-3	16-Feb-12	17.1	17.9	-0.8	-0.5	17.6	-0.5
DPE-3	16-Mar-12	17.1	17.51	-0.41	-0.3	17.2	-0.1
DPE-3	27-Mar-12	17.1	16.38	0.72	0.5	17.2	-0.1
DPE-3	17-Apr-12	17.1	17.28	-0.18	-0.1	17.1	0
DPE-3	17-May-12	17.1	17.08	0.02	0.0	NR	NR
DPE-3	14-Jun-12	17.1	17.42	-0.32	-0.2	17.4	-0.3
DPE-3	19-Jul-12	17.1	16.61	0.49	0.3	17	0.1
DPE-3	23-Aug-12	17.1	17.2	-0.1	-0.1	17.3	-0.2
DPE-3	26-Sep-12	17.1	17.2	-0.1	-0.1	17	0.1

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-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
DPE-4	25-Jul-11	19.3	14.49	4.81	3.1	17.7	1.6
DPE-4	28-Aug-11	19.3	16.58	2.72	1.8	19.6	-0.3
DPE-4	29-Sep-11	19.3	16.42	2.88	1.9	19.3	0
DPE-4	18-Oct-11	19.3	14.98	4.32	2.8	19.5	-0.2
DPE-4	27-Oct-11	19.3	16.64	2.66	1.7	19.4	-0.1
DPE-4	21-Nov-11	19.3	17.11	2.19	1.4	19.1	0.2
DPE-4	20-Jan-12	19.3	16.08	3.22	2.1	19	0.3
DPE-4	27-Jan-12	19.3	17.45	1.85	1.2	19.3	0
DPE-4	16-Feb-12	19.3	17.76	1.54	1.0	19.2	0.1
DPE-4	16-Mar-12	19.3	17.7	1.6	1.0	19.3	0
DPE-4	27-Mar-12	19.3	16.29	3.01	2.0	19.4	-0.1
DPE-4	17-Apr-12	19.3	17.61	1.69	1.1	19.6	-0.3
DPE-4	17-May-12	19.3	18.44	0.86	0.6	19.2	0.1
DPE-4	14-Jun-12	19.3	18.41	0.89	0.6	19	0.3
DPE-4	19-Jul-12	19.3	18.08	1.22	0.8	19.6	-0.3
DPE-4	23-Aug-12	19.3	17.12	2.18	1.4	19	0.3
DPE-4	26-Sep-12	19.3	17.14	2.16	1.4	19	0.3

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-5	25-Jul-11	18.1	13.59	4.51	2.9	18.5	-0.4
DPE-5	28-Aug-11	18.1	16.28	1.82	1.2	18	0.1
DPE-5	29-Sep-11	18.1	15.35	2.75	1.8	18.4	-0.3
DPE-5	18-Oct-11	18.1	14.24	3.86	2.5	18	0.1
DPE-5	27-Oct-11	18.1	16.46	1.64	1.1	18	0.1
DPE-5	21-Nov-11	18.1	17.18	0.92	0.6	18	0.1
DPE-5	20-Jan-12	18.1	15.39	2.71	1.8	18	0.1
DPE-5	27-Jan-12	18.1	16.44	1.66	1.1	18.1	0
DPE-5	16-Feb-12	18.1	17.42	0.68	0.4	18	0.1
DPE-5	16-Mar-12	18.1	17.41	0.69	0.5	18.5	-0.4
DPE-5	27-Mar-12	18.1	15.62	2.48	1.6	18	0.1
DPE-5	17-Apr-12	18.1	17.08	1.02	0.7	18.3	-0.2
DPE-5	17-May-12	18.1	16.65	1.45	0.9	18.3	-0.2
DPE-5	14-Jun-12	18.1	16.95	1.15	0.8	18.2	-0.1
DPE-5	19-Jul-12	18.1	17.22	0.88	0.6	18.5	-0.4
DPE-5	23-Aug-12	18.1	16.22	1.88	1.2	18.4	-0.3
DPE-5	26-Sep-12	18.1	16.31	1.79	1.2	18	0.1

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-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
DPE-6	25-Jul-11	19.5	14.64	4.86	3.2	19.3	0.2
DPE-6	28-Aug-11	19.5	15.38	4.12	2.7	19.5	0
DPE-6	29-Sep-11	19.5	15.57	3.93	2.6	19.3	0.2
DPE-6	18-Oct-11	19.5	14.2	5.3	3.5	19.8	-0.3
DPE-6	27-Oct-11	19.5	15.64	3.86	2.5	19.8	-0.3
DPE-6	21-Nov-11	19.5	15.81	3.69	2.4	19.8	-0.3
DPE-6	20-Jan-12	19.5	15.39	4.11	2.7	19.6	-0.1
DPE-6	27-Jan-12	19.5	16.29	3.21	2.1	19.6	-0.1
DPE-6	16-Feb-12	19.5	16.28	3.22	2.1	19.3	0.2
DPE-6	16-Mar-12	19.5	16.4	3.1	2.0	19.4	0.1
DPE-6	27-Mar-12	19.5	15.68	3.82	2.5	19.6	-0.1
DPE-6	17-Apr-12	19.5	16.19	3.31	2.2	19.7	-0.2
DPE-6	17-May-12	19.5	16.09	3.41	2.2	19.5	0
DPE-6	14-Jun-12	19.5	16.51	2.99	2.0	19.6	-0.1
DPE-6	19-Jul-12	19.5	16.96	2.54	1.7	19.1	0.4
DPE-6	23-Aug-12	19.5	16.51	2.99	2.0	19.2	0.3
DPE-6	26-Sep-12	19.5	16.36	3.14	2.0	19.6	-0.1

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-7	25-Jul-11	22.2	14.64	7.56	4.9	21.75	0.45
DPE-7	28-Aug-11	22.2	16.96	5.24	3.4	22.6	-0.4
DPE-7	29-Sep-11	22.2	17.35	4.85	3.2	21.95	0.25
DPE-7	18-Oct-11	22.2	16.25	5.95	3.9	22.4	-0.2
DPE-7	27-Oct-11	22.2	17.46	4.74	3.1	22.3	-0.1
DPE-7	21-Nov-11	22.2	17.14	5.06	3.3	22.1	0.1
DPE-7	20-Jan-12	22.2	16.68	5.52	3.6	22	0.2
DPE-7	27-Jan-12	22.2	17.64	4.56	3.0	22.4	-0.2
DPE-7	16-Feb-12	22.2	17.69	4.51	2.9	22.1	0.1
DPE-7	16-Mar-12	22.2	17.71	4.49	2.9	22	0.2
DPE-7	27-Mar-12	22.2	17.08	5.12	3.3	22.1	0.1
DPE-7	17-Apr-12	22.2	17.41	4.79	3.1	22	0.2
DPE-7	17-May-12	22.2	17.62	4.58	3.0	22.2	0
DPE-7	14-Jun-12	22.2	17.83	4.37	2.9	22	0.2
DPE-7	19-Jul-12	22.2	18.41	3.79	2.5	22.3	-0.1
DPE-7	23-Aug-12	22.2	18.21	3.99	2.6	22.1	0.1
DPE-7	26-Sep-12	22.2	17.81	4.39	2.9	22.6	-0.4

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-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
DPE-8	25-Jul-11	17.5	14.41	3.09	2.0	17.6	-0.1
DPE-8	28-Aug-11	17.5	16.91	0.59	0.4	17.4	0.1
DPE-8	29-Sep-11	17.5	16.37	1.13	0.7	17.9	-0.4
DPE-8	18-Oct-11	17.5	15.41	2.09	1.4	17.3	0.2
DPE-8	27-Oct-11	17.5	16.82	0.68	0.4	17.6	-0.1
DPE-8	21-Nov-11	17.5	17.11	0.39	0.3	17.6	-0.1
DPE-8	20-Jan-12	17.5	16.74	0.76	0.5	17.8	-0.3
DPE-8	27-Jan-12	17.5	17.43	0.07	0.0	17.4	0.1
DPE-8	16-Feb-12	17.5	DRY	NA	NA	DRY	NA
DPE-8	16-Mar-12	17.5	17.5	0	0.0	17.6	-0.1
DPE-8	27-Mar-12	17.5	16.78	0.72	0.5	17.6	-0.1
DPE-8	17-Apr-12	17.5	17.49	0.01	0.0	17.9	-0.4
DPE-8	17-May-12	17.5	DRY	NA	NA	DRY	NA
DPE-8	14-Jun-12	17.5	DRY	NA	NA	DRY	NA
DPE-8	19-Jul-12	17.5	DRY	NA	NA	DRY	NA
DPE-8	23-Aug-12	17.5	DRY	NA	NA	DRY	NA
DPE-8	26-Sep-12	17.5	DRY	NA	NA	DRY	NA

Notes:

1. DPE-1 groundwater elevation data from 8/28/11 appears to be a data outlier.
- NA Not Applicable

Attachment A - Table 7

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

Maintenance Item	Sep-09	Oct-09	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10 ¹	Sep-10	Oct-10	Nov-10	Dec-10
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
- 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
- Change Oil - MONTHLY							Mar 9						Sep 27			
- Clean Pump Inlet Opening							Mar 9	Apr 16	May 12	Jun 17	Jul 26	Aug 18	Sep 27	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
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
- 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
- Remove Sediment - AS NEEDED		Oct 27	Nov 16			Feb 3, 10, 22			May 12				Sep 27			
- Replace MS#1 Filter (5 micron) - SEMI-ANNUALLY						Feb 26						NA	Sep 27			
- Replace MS#2 Filter (1 micron) - SEMI-ANNUALLY						Feb 26						NA	Sep 27			
- 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
- Replace Transfer Pump Stator - SEMI-ANNUALLY						Feb 16						Aug 18	Sep 27			
- Clean Discharge Flow Meter - SEMI-ANNUALLY																
Air Stripper Maintenance																
- Clean Air Stripper - ANNUALLY OR AS NEEDED							Mar 25	Apr 16	May 12	Jun 17	Jul 26		Sep 27	Oct 18		
- Clean Floats - QUARTERLY						Feb 12			May 12			NA	Sep 27	Oct 18		
- 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
- 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
Solonoid 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
- Clean - AS NEEDED		Oct 27	Nov 6	Dec 4									Sep 27			
- Rebuild - AS NEEDED				Dec 7									Sep 27			

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.

Attachment A - Table 7

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

Maintenance Item	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	Jan 6, 20	Feb 28	Mar 18, 23	Apr, 22	May, 19	Jun 15	Jul 25	Aug 28	Sep 11	Oct 27	Nov 21	
- Check Oil Level (level should show at middle of site glass) - MONTHLY	Jan 6, 20	Feb 28	Mar 18, 23	Apr, 22	May, 19	Jun 15	Jul 25	Aug 28	Sep 11	Oct 27	Nov 21	
- Change Oil - MONTHLY		Feb 28	Mar 23	Apr, 22	May, 19	Jun 15,	Jul 25	Aug 28	Sep 11	Oct 27	Nov 21	
- Clean Pump Inlet Opening	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
- Inspect and Clean Pump Inlet Screen - EACH SITE VISIT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Moisture Separator Maintenance												
- Clean Floats - MONTHLY	Jan 6, 20	Feb 28	Mar 7, 18, 23	Apr, 22	May, 19	Jun 15,	Jul 25	Aug 28	Sep 11	Oct 18		
- Check Sediment - MONTHLY	Jan 6, 20	Feb 28	Mar 7, 18, 23	Apr, 22	May, 19	Jun 15,	Jul 25	Aug 28	Sep 11	Oct 18		
- Remove Sediment - AS NEEDED			Mar 7			Jun 15,						
- Replace MS#1 Filter (5 micron) - SEMI-ANNUALLY									Sep 11			
- Replace MS#2 Filter (1 micron) - SEMI-ANNUALLY									Sep 11			
- Transfer Pump (Moyno 34401 1 HP) - Inspect Hoses, Piping and Fittings for Water Leaks - MONTHLY	Jan 6, 20	Feb 28	Mar 7, 18, 23	Apr, 22	May, 19	Jun 15,	Jul 25	Aug 28	Sep 11	Oct 18, 27	Nov 21	
- Replace Transfer Pump Stator - SEMI-ANNUALLY			Mar 18		May, 19		Jul 25	Aug 28		Oct 18		
- Clean Discharge Flow Meter - SEMI-ANNUALLY												
Air Stripper Maintenance												
- Clean Air Stripper - ANNUALLY OR AS NEEDED	Jan 6, 20		Mar 18	Apr, 22	May, 19		Jul 25			Oct 18	Nov 21	
- Clean Floats - QUARTERLY			Mar 18					Aug 28		Oct 18		
- Discharge Pump (Meyers CT10 1 HP) - Inspect Hoses, Piping and Fittings for Water Leaks - MONTHLY	Jan 6, 20	Feb 28	Mar 7, 18	Apr, 22	May, 19	Jun 15,	Jul 25	Aug 28	Sep 11	Oct 18	Nov 21	
- Blower (16N4 TBNA 3 HP) - Inspect Hoses, Piping and Fittings for Leaks - MONTHLY	Jan 6, 20	Feb 28	Mar 7, 18	Apr, 22	May, 19	Jun 15,	Jul 25	Aug 28	Sep 11	Oct 18, 27	Nov 21	
Solenoid Valve Maintenance												
- Inspect - MONTHLY	Jan 6, 20	Feb 28	Mar 18	Apr, 22	May, 19	Jun 15,	Jul 25	Aug 28	Sep 11	Oct 18	Nov 21	
- Clean - AS NEEDED	Jan 6, 20		Mar 18									
- Rebuild - AS NEEDED	Jan 6, 20	Feb 28						Aug 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.

Attachment A - Table 7

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

Maintenance Item	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12
DPE Pump Maintenance												
- Inspect Hoses, Piping and Fittings for Oil Leaks - MONTHLY	Jan 20,27	Feb 16	Mar 16,27	Apr 17	May 17, 31	Jun 14	July 19	Aug 23	Sept 26	X	X	X
- Check Oil Level (level should show at middle of site glass) - MONTHLY	Jan 20,27	Feb 16	Mar 16,27	Apr 17	May 17, 31	Jun 14	July 19	Aug 23	Sept 26	X	X	X
- Change Oil - MONTHLY	Jan 27,20	Feb 16	Mar 16,27	Apr 17	May 17, 31	Jun 14	July 19	Aug 23	Sept 26	X	X	X
- Clean Pump Inlet Opening	NA	NA	NA	NA	NA	Jun 14	NA	NA	NA	NA	NA	NA
- Inspect and Clean Pump Inlet Screen - EACH SITE VISIT	NA	NA	Mar 16,27	NA	NA	Jun 14	NA	NA	NA	NA	NA	NA
Moisture Separator Maintenance												
- Clean Floats - MONTHLY	Jan 20,27	Feb 16	Mar 16	Apr 17	May 17, 31	Jun 14	July 19	Aug 23	Sept 26	X	X	X
- Check Sediment - MONTHLY	Jan 20,27	Feb 16	Mar 16	Apr 17	May 17, 31	Jun 14	July 19	Aug 23	Sept 26	X	X	X
- Remove Sediment - AS NEEDED	Jan 20		Mar 16									X
- Replace MS#1 Filter (5 micron) - SEMI-ANNUALLY							July 25				X	
- Replace MS#2 Filter (1 micron) - SEMI-ANNUALLY							July 25				X	
- Transfer Pump (Moyno 34401 1 HP) - Inspect Hoses, Piping and Fittings for Water Leaks - MONTHLY	Jan 27	Feb 16	Mar 16	Apr 17	May 17, 31	Jun 14	July 19	Aug 23	Sept 26	X	X	X
- Replace Transfer Pump Stator - SEMI-ANNUALLY							July 25				X	
- Clean Discharge Flow Meter - SEMI-ANNUALLY						Jun 14	July 25					
Air Stripper Maintenance												
- Clean Air Stripper - ANNUALLY OR AS NEEDED	Jan 20,27	Feb 16	Mar 16		May 17		July 19	Aug 23	Sept 26	X	X	X
- Clean Floats - QUARTERLY	Jan 20,27	Feb 16	Mar 16,27	Apr 17		Jun 14	July 19	Aug 23	Sept 26			X
- Discharge Pump (Meyers CT10 1 HP) - Inspect Hoses, Piping and Fittings for Water Leaks - MONTHLY	Jan 20,27	Feb 16	Mar 16	Apr 17	May 17		July 19	Aug 23	Sept 26	X	X	X
- Blower (16N4 TBNA 3 HP) - Inspect Hoses, Piping and Fittings for Leaks - MONTHLY	Jan 20,27	Feb 16	Mar 16	Apr 17	May 17		July 19	Aug 23	Sept 26	X	X	X
Solenoid Valve Maintenance												
- Inspect - MONTHLY	Jan 20,27	Feb 16	Mar 16	Apr 17	May 17, 31	Jun 14	July 19	Aug 23	Sept 26	X	X	X
- Clean - AS NEEDED	Jan 20											
- Rebuild - AS NEEDED			Mar 16				July 19					

Notes:

Sep 4: Date task completed.

X: Task to be completed during that month.

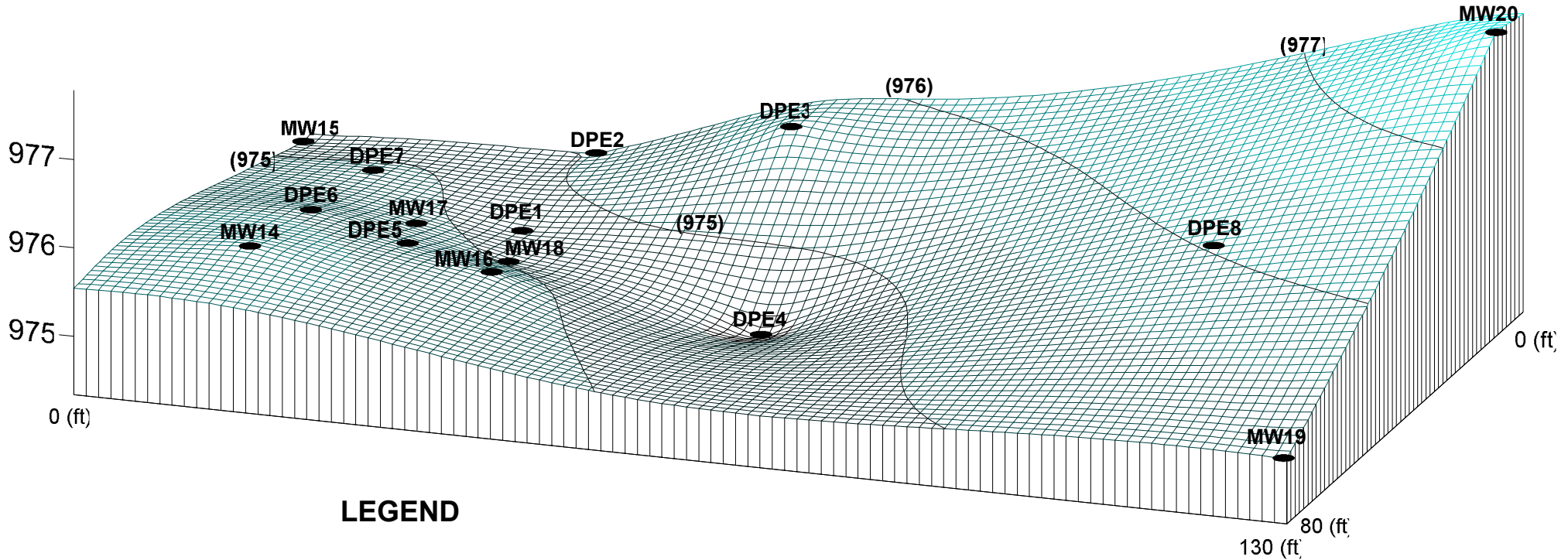
NA: Not applicable

1: Some maintenance was not performed because of DPE pump oil leak.

ATTACHMENT A FIGURE 1A

3D GROUNDWATER FLOW INTERPRETATION July 19, 2012

MN Bio Business Center
221 First Avenue S.W.
Rochester, Minnesota



LEGEND

- DPE and Monitoring Well Location
- (976) Groundwater Elevation (feet above mean sea level)

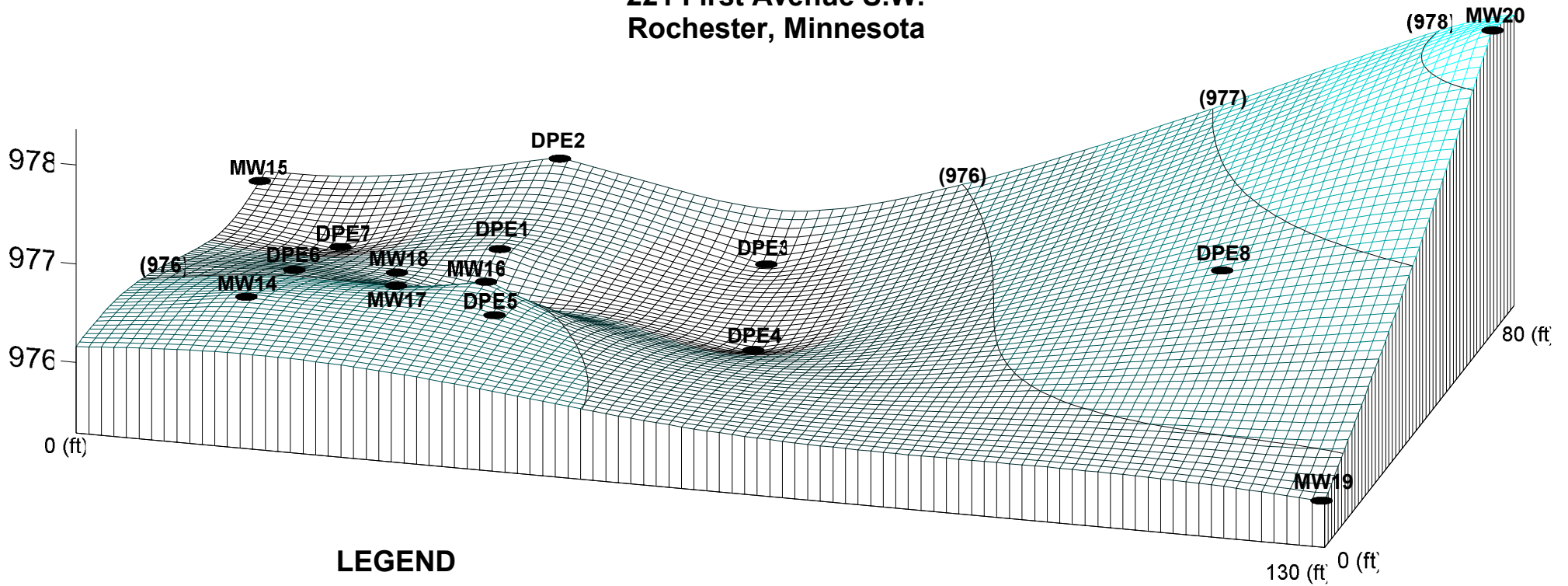


1. MW-17 and 18 are not shallow wells;
therefore, the data from these wells was not used
in the contouring calculations.

ATTACHMENT A FIGURE 1B

3D GROUNDWATER FLOW INTERPRETATION August 23, 2012

MN Bio Business Center
221 First Avenue S.W.
Rochester, Minnesota



LEGEND

- DPE and Monitoring Well Location
- (976) Groundwater Elevation (feet above mean sea level)



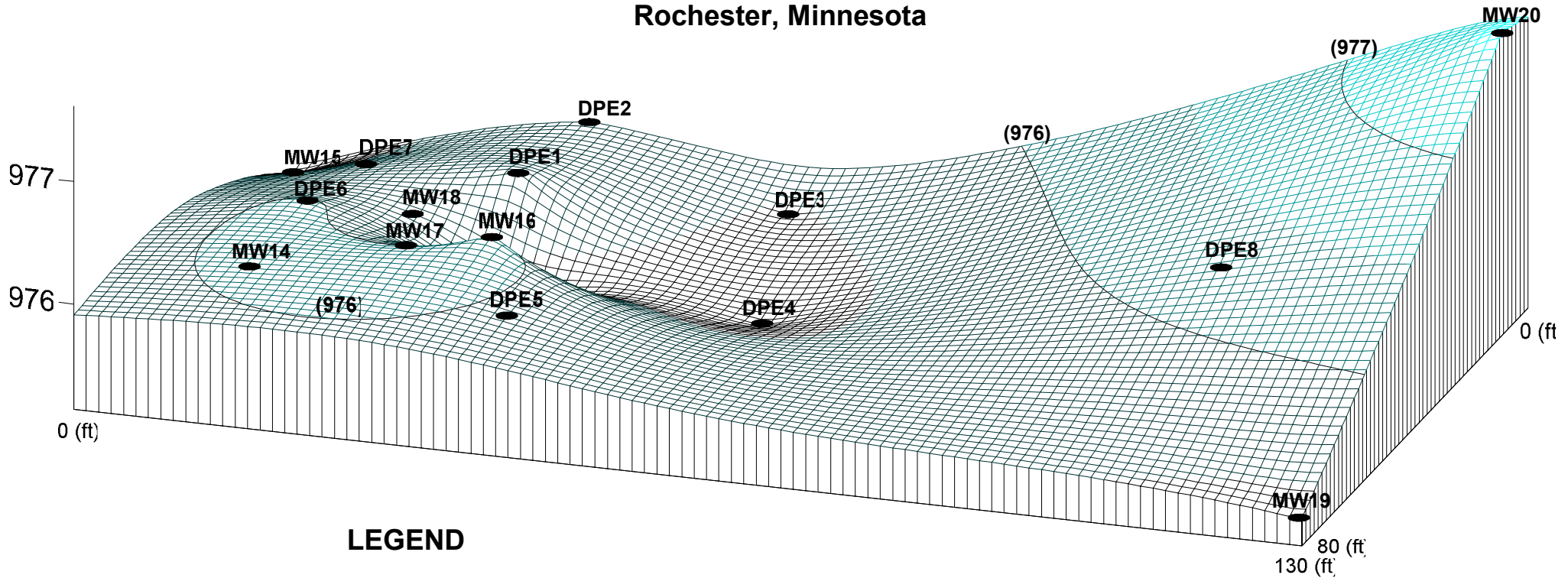
1. MW-17 and 18 are not shallow wells;
therefore, the data from these wells was not used
in the contouring calculations.

ATTACHMENT A FIGURE 1C

3D GROUNDWATER FLOW INTERPRETATION

September 26, 2012

MN Bio Business Center
221 First Avenue S.W.
Rochester, Minnesota



LEGEND

- DPE and Monitoring Well Location
 - (976) Groundwater Elevation (feet above mean sea level)
-
- A horizontal color scale bar is located below the legend. It consists of six rectangular segments of varying shades of cyan and blue, transitioning from light cyan on the left to dark blue/black on the right. The segments are labeled with groundwater elevation values: 977.5, 977, 976.5, 976, 975.5, and 975.

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

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: 7/19/12
 TIME:
 RECORDED BY: 11:11

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): 49.6 #3
 DPE WELL VACUUM (IN. HG): 15.67 ←
 DPE PUMP INLET VACUUM (IN. HG): 19.36
 DPE PUMP OUTLET PRESSURE (PSI): 0.05
 DPE PUMP OUTLET TEMP (DEG. F): 239
 MS PUMP WATER FLOW (GPM): 9.8 ←

TOTAL PANEL READINGS

DPE VACUUM PUMP (HRS): 2119
 MS PUMP (HRS): 1364
 MS VACUUM VALVE (HRS): 220
 AIR STRIPPER BLOWER (HRS): 8903
 AIR STRIPPER PUMP (HRS): 602
 DPE AIR FLOW (SCF): 86992000
 MS PUMP WATER FLOW (GAL): 835414
 SUMP PUMP WATER FLOW (GAL): 610

STATIC WATER LEVELS

	Clean to Dirty Ranking	Well Depth below TOC (FT)	Depth to Water below TOC (FT)
MW-14	3	17.5	13.80
MW-15	4	18	16.63
MW-16	10	18	14.51
MW-17	7	25	15.24
MW-18	6	60	16.70
MW-19	1	20	16.06
MW-20	8	16.7	13.71
DPE-1	15	21.9	17.54
DPE-2	13	20.5	17.79
DPE-3	14	17.1	16.61
DPE-4	12	19.3	18.08
DPE-5	9	18.1	17.22
DPE-6	5	19.5	16.96
DPE-7	2	22.2	18.41
DPE-8	11	17.5	17.75 Dry
Sump	1	7.74	7.09

FIELD MEASUREMENTS

DPE WELL CASING VACUUM (MM HG): 15.0
 PRE-MANIFOLD VACUUM (IN. HG): 15.0
 DPE WELL (PRE-MS-1) VACUUM (IN. HG): 15.0
 POST-MS-1 VACUUM (IN. HG): 14.5
 POST-MS-2 VACUUM (IN. HG): 18.3
 DPE PUMP AIR FLOW (SCFM): 50
 DPE EXHAUST PID CONC. (PPM): 15.6
 DPE PUMP OUTLET PRESSURE (IN. H2O): 0
 DPE PUMP OUTLET TEMP (DEG. F): 226

OPERATING WATER LEVELS

DPE-1	21.8
DPE-2	20.6
DPE-3	17.0
DPE-4	19.6
DPE-5	18.4
DPE-6	19.1
DPE-7	22.3
DPE-8	17.75 Dry

MS PUMP WATER FLOWRATE (WHILE PUMPING) (GPM): 9.7
 MS PUMP WATER PRESSURE (WHILE PUMPING) (PSI): 35
 MS PUMP FLOW TOTALIZER READING (GAL): 260681

SUMP ROOM PID: ND
 BASEMENT PID READINGS: ND

AS EXHAUST PRESSURE (IN. H2O): 8-
 AS DISCHARGE PUMP PRESSURE (WHILE PUMPING) (PSI): 19
 AS BLOWER PRESSURE (IN. H2O): 16
 AS EXHAUST PID (PPM): ND

COMMENTS/MAINTENANCE:

ELEVATOR DRAIN TILE SUMP FLOW TOTALIZER (GAL): 541

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: 7/19/12
 TIME:
 RECORDED BY:

	PID READINGS	DPE EXHAUST FLOW RATE	DPE PUMP INLET VACUUM	WELL CASING VACUUMS
DPE-1	10.9	40.9	18.6	-33
DPE-2	5.4	31.5	18.7	-148
DPE-3	15.6	49.2	18.3	-126
DPE-4	8.5	40.9	18.04	-125
DPE-5	3.5	60.4	16.5	-100
DPE-6	3.7	49.6	15.7	-109
DPE-7	2.2	53.5	15.72	-48
DPE-8	1.8	65.5	13.4	-80

MAINTENANCE CHECKLIST (Revised 4/13/10)

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

7/19/12

Date: _____

Field Representative: _____

OBSERVATIONS AND/OR
 DESCRIPTION OF MAINTENANCE
 PERFORMED

Check Box

<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>
<input type="checkbox"/>
<input checked="" type="checkbox"/>

- 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

changed oil

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

<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>
<input type="checkbox"/>
<input checked="" type="checkbox"/>

(see attached best)

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

<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>

Added 1 g ACFO

Solonoid Valve Maintenance

- Inspect - MONTHLY
- Clean - AS NEEDED

<input checked="" type="checkbox"/>
<input type="checkbox"/>

Replaced Inners #3

MAINTENANCE CHECKLIST (Revised 4/13/10)

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

- Rebuild - AS NEEDED

Start CAR @ 9:50 - 30

AS - IN 10:50

AS - EF 10:55

All Gauge BACK mounted Need 2 - to 3 more

replaced gauge @ #4 + #3

Pre MS 1

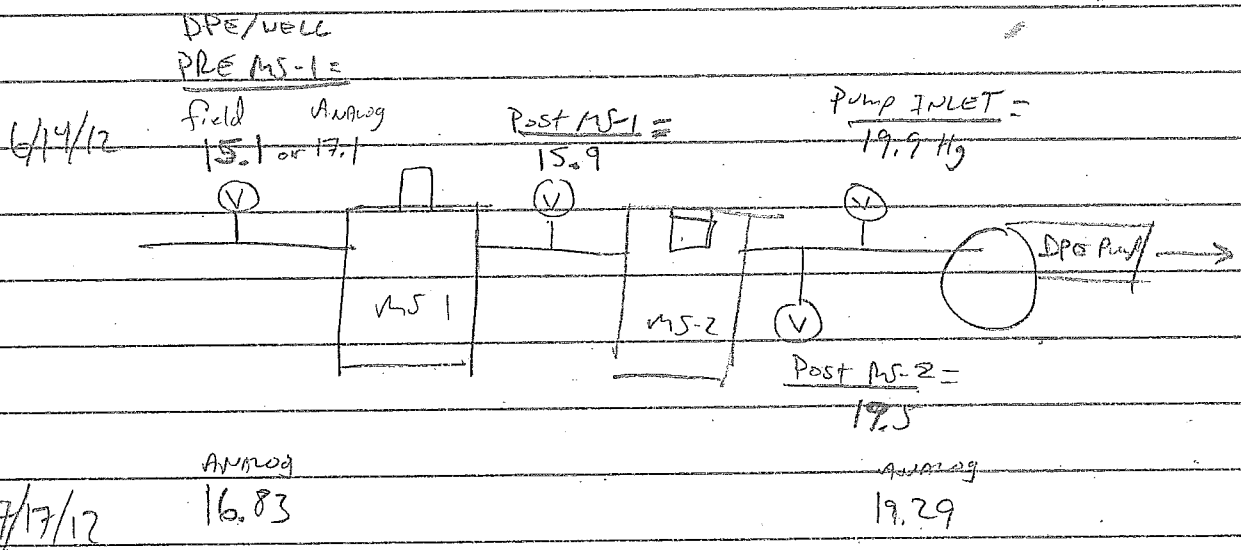
~~Blocked~~

Believe pipe from ~~AS~~ - MS - to AS is ~~Blocked~~

Post testing filled discharge pipe from MS with

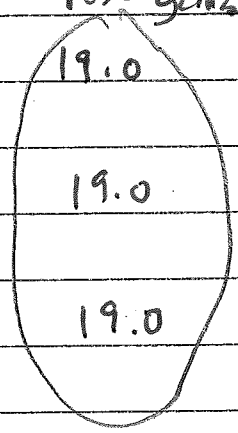
vinyl and sent to AS

Rochester



1 no adjustment

	Pre gauge	middle gauge	Post gauge	Pump Pre	Post
	14.0	14.5	19.0	16.08	19.36
pulled filter #2 Looked in good shape	14.0	14.5	19.0	14.49	19.26
pulled #1 Filter Looks bad - rusty	13.5	14.0	19.0	14.97	19.29



Need new gauge

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: 8/23/12
 TIME: 07:30
 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): 36.1 | 32.3 | 37
 DPE WELL VACUUM (IN. HG): 10.87 | 10.79 | 11.12
 DPE PUMP INLET VACUUM (IN. HG): 20.71 | 20.64 | 20.46
 DPE PUMP OUTLET PRESSURE (PSI): 0 | 0 | 0
 DPE PUMP OUTLET TEMP (DEG. F): 240 | 234 | 209
 MS PUMP WATER FLOW (GPM): 13.2

first
Pulled 2 Filter from
Pulled Filter

TOTAL PANEL READINGS

DPE VACUUM PUMP (HRS): 21872
 MS PUMP (HRS): 1399
 MS VACUUM VALVE (HRS): 702
 AIR STRIPPER BLOWER (HRS): 910
 AIR STRIPPER PUMP (HRS): 615
 DPE AIR FLOW (SCF): 89163000
 MS PUMP WATER FLOW (GAL): 849507
 SUMP PUMP WATER FLOW (GAL): 610

FIELD MEASUREMENTS

DPE WELL CASING VACUUM (MM HG): 11.5 | 11.5 | 11.0
 PRE-MANIFOLD VACUUM (IN. HG): 11.5 | 11.5 | 11.0
 DPE WELL (PRE-MS-1) VACUUM (IN. HG): 11.5 | 11.5 | 11.0
 POST-MS-1 VACUUM (IN. HG): 10.5 | 10.5 | 9.5
 POST-MS-2 VACUUM (IN. HG): 20 | 20.0 | 20.0
 DPE PUMP AIR FLOW (SCFM): 35 | 35 | 40
 DPE EXHAUST PID CONC. (PPM):
 DPE PUMP OUTLET PRESSURE (IN. H2O): 0 | 0 | 0
 DPE PUMP OUTLET TEMP (DEG. F): 220 | 220 | 220

#3

MS PUMP WATER FLOWRATE (WHILE PUMPING) (GPM): 275367
 MS PUMP WATER PRESSURE (WHILE PUMPING) (PSI): 12
 MS PUMP FLOW TOTALIZER READING (GAL): 13.2

AS EXHAUST PRESSURE (IN. H2O): 16
 AS DISCHARGE PUMP PRESSURE (WHILE PUMPING) (PSI): 19
 AS BLOWER PRESSURE (IN. H2O): 9.0
 AS EXHAUST PID (PPM): 0.0

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	13.20
MW-15	4	18	16.04
MW-16	10	18	13.99
MW-17	7	25	14.68
MW-18	6	60	16.02
MW-19	1	20	15.38
MW-20	8	16.7	13.13
DPE-1	15	21.9	16.68
DPE-2	13	20.5	16.90
DPE-3	14	17.1	17.20
DPE-4	12	19.3	17.12
DPE-5	9	18.1	16.22
DPE-6	5	19.5	16.51
DPE-7	2	22.2	18.21
DPE-8	11	17.5	17.63
Sump	1	7.74	6.88

OPERATING WATER LEVELS

DPE-1	21.6
DPE-2	20.6
DPE-3	17.3
DPE-4	19.0
DPE-5	18.4
DPE-6	19.2
DPE-7	22.1
DPE-8	17.63

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: _____
 TIME: _____
 RECORDED BY: _____

	PID READINGS	DPE EXHAUST FLOW RATE	DPE PUMP INLET VACUUM	WELL CASING VACUUMS
DPE-1	13.6	30.9	14.4	-27
DPE-2	3.6	36	10.8	-112
DPE-3	11.4	33	10.8	-75
DPE-4	3.3	34	12.6	-95
DPE-5	1.1	42	11.6	-78
DPE-6	4.8	34	10.5	-75
DPE-7	1.1	30	11.3	-25
DPE-8	0.7	44	10.8	-60

Opened up 2nd MS - for inspection

1/16" of water no obvious obstructions

Removed both filter to little effect

MAINTENANCE CHECKLIST (Revised 4/13/10)

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

0/23/12

Date: _____

Field Representative: _____

	Check Box	OBSERVATIONS AND/OR DESCRIPTION OF MAINTENANCE PERFORMED
DPE Pump Maintenance		
- Inspect Hoses, Piping and Fittings for Oil Leaks - MONTHLY	<input checked="" type="checkbox"/>	
- Check Oil Level (level should show at middle of site glass) - MONTHLY	<input checked="" type="checkbox"/>	changed oil
- Change Oil - MONTHLY	<input checked="" type="checkbox"/>	
- Clean Pump Inlet Opening - MONTHLY		
Moisture Separator Maintenance		
- Clean Floats - MONTHLY	<input checked="" type="checkbox"/>	
- Check Sediment - MONTHLY	<input checked="" type="checkbox"/>	
- Remove Sediment - MONTHLY	NA	
- Replace MS#1 Filter (5 micron) - If Pressure Drop Occurs		last month
- Replace MS#2 Filter (1 micron) - If Pressure Drop Occurs		1
- Transfer Pump (Moyno 34401 1 HP) - Inspect Hoses, Piping and Fittings for Water Leaks - MONTHLY	<input checked="" type="checkbox"/>	
- Replace Transfer Pump Stator - SEMI-ANNUALLY		last month
- Clean Discharge Flow Meter - SEMI-ANNUALLY	<input checked="" type="checkbox"/>	
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		
Solenoid Valve Maintenance		
- Inspect - MONTHLY	<input checked="" type="checkbox"/>	
- Clean - AS NEEDED	<input checked="" type="checkbox"/>	

MAINTENANCE CHECKLIST (Revised 4/13/10)

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

- Rebuild - AS NEEDED

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: 9/26/12
 TIME: 20:12
 RECORDED BY: JLS

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): 46
 DPE WELL VACUUM (IN. HG): 17.95
 DPE PUMP INLET VACUUM (IN. HG): 19.31
 DPE PUMP OUTLET PRESSURE (PSI): 0.04
 DPE PUMP OUTLET TEMP (DEG. F): 237
 MS PUMP WATER FLOW (GPM): 14.0

#3
2012

TOTAL PANEL READINGS
 DPE VACUUM PUMP (HRS): 22695
 MS PUMP (HRS): 1414
 MS VACUUM VALVE (HRS): 302
 AIR STRIPPER BLOWER (HRS): 9268
 AIR STRIPPER PUMP (HRS): 626
 DPE AIR FLOW (SCF): 91533000
 MS PUMP WATER FLOW (GAL): 860318
 SUMP PUMP WATER FLOW (GAL): 610

STATIC WATER LEVELS

	Clean to Dirty Ranking	Well Depth below TOC (FT)	Depth to Water below TOC (FT)
MW-14	3	17.5	13.47
MW-15	4	18	16.32
MW-16	10	18	14.32
MW-17	7	25	14.88
MW-18	6	60	16.06
MW-19	1	20	15.77
MW-20	8	16.7	13.88
DPE-1	15	21.9	16.41
DPE-2	13	20.5	16.99
DPE-3	14	17.1	17.02
DPE-4	12	19.3	17.14
DPE-5	9	18.1	16.31
DPE-6	5	19.5	16.36
DPE-7	2	22.2	17.81
DPE-8	11	17.5	17.5 Dry
Sump	1	7.74	7.19

FIELD MEASUREMENTS

DPE WELL CASING VACUUM (MM HG): 10
 PRE-MANIFOLD VACUUM (IN. HG): 18.5
 DPE WELL (PRE-MS-1) VACUUM (IN. HG): 18.5
 POST-MS-1 VACUUM (IN. HG): 17.0
 POST-MS-2 VACUUM (IN. HG): 18.5
 DPE PUMP AIR FLOW (SCFM): 45
 DPE EXHAUST PID CONC. (PPM): 11.3
 DPE PUMP OUTLET PRESSURE (IN. H2O): 0
 DPE PUMP OUTLET TEMP (DEG. F): 220

OPERATING WATER LEVELS

DPE-1	16.5
DPE-2	17.0
DPE-3	17.0
DPE-4	17.0
DPE-5	18.0
DPE-6	19.6
DPE-7	22.6
DPE-8	17.5 Dry

MS PUMP WATER FLOWRATE (WHILE PUMPING) (GPM): 14.0
 MS PUMP WATER PRESSURE (WHILE PUMPING) (PSI): 8
 MS PUMP FLOW TOTALIZER READING (GAL): 286603

SUMP ROOM PID: ND

AS EXHAUST PRESSURE (IN. H2O): 9
 AS DISCHARGE PUMP PRESSURE (WHILE PUMPING) (PSI): 19
 AS BLOWER PRESSURE (IN. H2O): 16
 AS EXHAUST PID (PPM): ND

BASEMENT PID READINGS: ND

COMMENTS/MAINTENANCE:

sump 541

ELEVATOR DRAIN TILE SUMP FLOW TOTALIZER (GAL): _____

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: _____
TIME: _____
RECORDED BY: _____

	PID READINGS	DPE EXHAUST FLOW RATE	DPE PUMP INLET VACUUM	WELL CASING VACUUMS
DPE-1	6.9	30.4	19.11	40
DPE-2	4.3	31.3	19.18	128
DPE-3	11.6	45.8	19.3	135
DPE-4	9.8 5.0	42.8 42	12.45	128 129 129
DPE-5	1.4	59	17.2	115
DPE-6	1.8	46	17.2	109
DPE-7	0.2	50	17.3	49
DPE-8	0.0	66	16.8	80

Two ports on either side of second filter produced 7 250" H₂O
screen below second filtered punctured

Field Information Data Sheet

**Landmark
Environmental, LLC**

Client Name: City of Rochester – Second Quarter Sampling
 Project Name: CRC Project Number: CRC-12
 Location: Multiple Location Date: September 26, 2012
 Station: _____ Sample time: _____

Multiple Sampling Log:	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	
Location:							
DPE-1:	18:20	19.1	1170	8.5	-74	5.7	
DPE-2:	17:50	19.2	943	7.9	-42	3.8	
DPE-3:	18:10	17.0	2777	8.3	-63	7.1	
DPE-4:	17:40	18.5	1891	8.1	-56	5.9	
DPE-5:	17:00	18.3	1972	8.5	-73	7.2	
DPE-6:	15:50	19.6	461	8.0	50	4.3	
DPE-7:	14:50	19.9	747	7.8	40	4.3	
DPE-8:	Dry						
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.

A5 - FN 18:30

A5 - EF 18:33

Field Information Data Sheet

**Landmark
Environmental, LLC**

Client Name: City of Rochester – Second Quarter Sampling
 Project Name: CRC Project Number: CRC-12
 Location: MW-14 Date: September 26, 2012
 Station: _____ Sample time: 15:20

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	17.5							
Static water level:	13.47		19.4	1043	7.53	-23	6.36	—
Water depth ¹ :	4.03							
Well volume (gal):	0.7							
Purge method:	Whale							
Sample Method:	Direct							
Start time:	_____							
Stop time:	_____							
Duration (min.):	_____	Odor:						
Rate, gpm:	_____	Purge appearance:	Cloudy					
Volume purged:	1.4	Sample appearance:	↓					
Duplicate collected?	_____	Comments:	1.4 gallons dry					
Sampled by:	_____							
Others present:				Well Condition				
Analysis:	(VOO)	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-12
 Location: MW-15 Date: September 26, 2012
 Station: _____ Sample time: 15:40

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	18							
Static water level:	16.22		19.2	1295	7.67	-30	6.3	
Water depth ¹ :	1.68							
Well volume (gal):	0.3							
Purge method:	whale							
Sample Method:	Dedrick							
Start time:	_____							
Stop time:	_____							
Duration (min.):	_____	Odor:						
Rate, gpm:	_____	Purge appearance:	cloudy					
Volume purged:	0.6	Sample appearance:	cloudy					
Duplicate collected?	_____	Comments:	0.6 gallons dry					
Sampled by:	_____							
Others present:				Well Condition				
Analysis:	<u>VOO</u>	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-12
 Location: MW-16 Date: September 26, 2012
 Station: _____ Sample time: 17:20

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	18							
Static water level:	14.32		18.7	1126	7.40	-16	6.21	
Water depth ¹ :	3.68							
Well volume (gal):	0.6							
Purge method:	Whale							
Sample Method:	Ded							
Start time:	---							
Stop time:	---							
Duration (min.):	---	Odor:						
Rate, gpm:	---	Purge appearance:	cloudy					
Volume purged:	1.2	Sample appearance:	cloudy					
Duplicate collected?		Comments:	1.2 gallon dry					
Sampled by:								
Others present:		Well Condition						
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:								

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-12
 Location: MW-17 Date: September 26, 2012
 Station: 25 Sample time: 16:25

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	25							
Static water level:	14.88		18.2	753	7.03	2.1	3.02	
Water depth ¹ :	10.12							
Well volume (gal):	1.6							
Purge method:	Whal							
Sample Method:	Dcd							
Start time:	/							
Stop time:	/							
Duration (min.):	/	Odor:						
Rate, gpm:	/	Purge appearance:	cloudy					
Volume purged:	3.3	Sample appearance:	cloudy					
Duplicate collected?	/	Comments:	3.3 gallons day					
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-12
 Location: MW-18 Date: September 26, 2012
 Station: _____ Sample time: 16:10

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	60							
Static water level:	16.06		19.3	1680	6.98	4.9	2.9	
Water depth ¹ :	43.94							
Well volume (gal):	7							
Purge method:	Whal							
Sample Method:	Deduct							
Start time:	_____							
Stop time:	_____							
Duration (min.):	_____	Odor:						
Rate, gpm:	_____	Purge appearance:	cloudy					
Volume purged:	14	Sample appearance:	cloudy					
Duplicate collected?	_____	Comments:	14 gallons dry					
Sampled by:	_____							
Others present:				Well Condition				
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:								

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-12
 Location: MW-19 Date: September 26, 2012
 Station: _____ Sample time: 14:40

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	20							
Static water level:	15.77		18.14	4655	6.71	17.3	8.16	X
Water depth ¹ :	4.23							
Well volume (gal):	0.7							
Purge method:	Whale							
Sample Method:	Deductor							
Start time:	 							
Stop time:	 							
Duration (min.):	 	Odor:						
Rate, gpm:	 	Purge appearance:	Cloudy					
Volume purged:	1.7 dry	Sample appearance:	I					
Duplicate collected?	 	Comments:	Dry 1.7 gallon					
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:								

Field Information Data Sheet

**Landmark
Environmental, LLC**

Client Name: City of Rochester – Second Quarter Sampling
 Project Name: CRC Project Number: CRC-12
 Location: MW-20 Date: September 26, 2012
 Station: _____ Sample time: 11:45

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	16.7							
Static water level:	13.88		18.4	4278	6.99	3.6	3.9	
Water depth ¹ :	2.82							
Well volume (gal):	0.4							
Purge method:	Whal							
Sample Method:	Ded							
Start time:	_____							
Stop time:	_____							
Duration (min.):	_____	Odor:						
Rate, gpm:	_____	Purge appearance:	cloudy					
Volume purged:	_____	Sample appearance:	cloudy					
Duplicate collected?		Comments:	0.8 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.

Attachment B

July 27, 2012

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

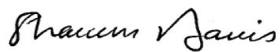
RE: Project: CRC CITY OF ROCHESTER
Pace Project No.: 10199473

Dear Eric Gabrielson:

Enclosed are the analytical results for sample(s) received by the laboratory on July 20, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Shawn Davis 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.: 10199473

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

Virginia/DCLS Certification #: 002521

Virginia/VELAP Certification #: 460163

Washington Certification #: C754

Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

Page 2 of 11

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SAMPLE SUMMARY

Project: CRC CITY OF ROCHESTER

Pace Project No.: 10199473

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10199473001	DPE-EXHAUST-1660	Air	07/19/12 15:50	07/20/12 09:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: CRC CITY OF ROCHESTER

Pace Project No.: 10199473

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10199473001	DPE-EXHAUST-1660	TO-15	DR1	61

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER

Pace Project No.: 10199473

Sample: DPE-EXHAUST-1660	Lab ID: 10199473001	Collected: 07/19/12 15:50	Received: 07/20/12 09:30	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	ND	ug/m3	476	992		07/27/12 14:09	67-64-1	
Benzene	ND	ug/m3	322	992		07/27/12 14:09	71-43-2	
Benzyl chloride	ND	ug/m3	1040	992		07/27/12 14:09	100-44-7	
Bromodichloromethane	ND	ug/m3	1350	992		07/27/12 14:09	75-27-4	
Bromoform	ND	ug/m3	2080	992		07/27/12 14:09	75-25-2	
Bromomethane	ND	ug/m3	784	992		07/27/12 14:09	74-83-9	
1,3-Butadiene	ND	ug/m3	446	992		07/27/12 14:09	106-99-0	
2-Butanone (MEK)	ND	ug/m3	595	992		07/27/12 14:09	78-93-3	
Carbon disulfide	ND	ug/m3	625	992		07/27/12 14:09	75-15-0	
Carbon tetrachloride	ND	ug/m3	635	992		07/27/12 14:09	56-23-5	
Chlorobenzene	ND	ug/m3	932	992		07/27/12 14:09	108-90-7	
Chloroethane	ND	ug/m3	536	992		07/27/12 14:09	75-00-3	
Chloroform	ND	ug/m3	982	992		07/27/12 14:09	67-66-3	
Chloromethane	ND	ug/m3	417	992		07/27/12 14:09	74-87-3	
Cyclohexane	ND	ug/m3	694	992		07/27/12 14:09	110-82-7	
Dibromochloromethane	ND	ug/m3	1720	992		07/27/12 14:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1550	992		07/27/12 14:09	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1210	992		07/27/12 14:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1210	992		07/27/12 14:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1210	992		07/27/12 14:09	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1000	992		07/27/12 14:09	75-71-8	
1,1-Dichloroethane	ND	ug/m3	813	992		07/27/12 14:09	75-34-3	
1,2-Dichloroethane	ND	ug/m3	407	992		07/27/12 14:09	107-06-2	
1,1-Dichloroethene	ND	ug/m3	804	992		07/27/12 14:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	804	992		07/27/12 14:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	804	992		07/27/12 14:09	156-60-5	
1,2-Dichloropropane	ND	ug/m3	932	992		07/27/12 14:09	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	913	992		07/27/12 14:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	913	992		07/27/12 14:09	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1410	992		07/27/12 14:09	76-14-2	
Ethanol	ND	ug/m3	377	992		07/27/12 14:09	64-17-5	
Ethyl acetate	ND	ug/m3	724	992		07/27/12 14:09	141-78-6	
Ethylbenzene	ND	ug/m3	873	992		07/27/12 14:09	100-41-4	
4-Ethyltoluene	ND	ug/m3	992	992		07/27/12 14:09	622-96-8	
n-Heptane	ND	ug/m3	823	992		07/27/12 14:09	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	2180	992		07/27/12 14:09	87-68-3	
n-Hexane	ND	ug/m3	714	992		07/27/12 14:09	110-54-3	
2-Hexanone	ND	ug/m3	823	992		07/27/12 14:09	591-78-6	
Methylene Chloride	ND	ug/m3	704	992		07/27/12 14:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	823	992		07/27/12 14:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	724	992		07/27/12 14:09	1634-04-4	
Naphthalene	ND	ug/m3	1060	992		07/27/12 14:09	91-20-3	
2-Propanol	ND	ug/m3	496	992		07/27/12 14:09	67-63-0	
Propylene	ND	ug/m3	347	992		07/27/12 14:09	115-07-1	
Styrene	ND	ug/m3	863	992		07/27/12 14:09	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	692	992		07/27/12 14:09	79-34-5	
Tetrachloroethene	113000	ug/m3	683	992		07/27/12 14:09	127-18-4	

Date: 07/27/2012 06:41 PM

REPORT OF LABORATORY ANALYSIS

Page 5 of 11

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER

Pace Project No.: 10199473

Sample: DPE-EXHAUST-1660		Lab ID: 10199473001	Collected: 07/19/12 15:50	Received: 07/20/12 09:30	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Tetrahydrofuran	ND	ug/m3	595	992		07/27/12 14:09	109-99-9	
Toluene	ND	ug/m3	764	992		07/27/12 14:09	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1500	992		07/27/12 14:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1100	992		07/27/12 14:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	546	992		07/27/12 14:09	79-00-5	
Trichloroethene	ND	ug/m3	546	992		07/27/12 14:09	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1130	992		07/27/12 14:09	75-69-4	
1,1,2-Trichlorotrifluoroethane	60300	ug/m3	1590	992		07/27/12 14:09	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	991	992		07/27/12 14:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	991	992		07/27/12 14:09	108-67-8	
Vinyl acetate	ND	ug/m3	710	992		07/27/12 14:09	108-05-4	
Vinyl chloride	ND	ug/m3	258	992		07/27/12 14:09	75-01-4	
m&p-Xylene	ND	ug/m3	1750	992		07/27/12 14:09	179601-23-1	
o-Xylene	ND	ug/m3	873	992		07/27/12 14:09	95-47-6	

QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER

Pace Project No.: 10199473

QC Batch: AIR/15410

Analysis Method: TO-15

QC Batch Method: TO-15

Analysis Description: TO15 MSV AIR Low Level

Associated Lab Samples: 10199473001

METHOD BLANK: 1251716

Matrix: Air

Associated Lab Samples: 10199473001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	07/27/12 13:12	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	07/27/12 13:12	
1,1,2-Trichloroethane	ug/m3	ND	0.55	07/27/12 13:12	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	07/27/12 13:12	
1,1-Dichloroethane	ug/m3	ND	0.82	07/27/12 13:12	
1,1-Dichloroethene	ug/m3	ND	0.81	07/27/12 13:12	
1,2,4-Trichlorobenzene	ug/m3	ND	1.5	07/27/12 13:12	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	07/27/12 13:12	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	07/27/12 13:12	
1,2-Dichlorobenzene	ug/m3	ND	1.2	07/27/12 13:12	
1,2-Dichloroethane	ug/m3	ND	0.41	07/27/12 13:12	
1,2-Dichloropropane	ug/m3	ND	0.94	07/27/12 13:12	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	07/27/12 13:12	
1,3-Butadiene	ug/m3	ND	0.45	07/27/12 13:12	
1,3-Dichlorobenzene	ug/m3	ND	1.2	07/27/12 13:12	
1,4-Dichlorobenzene	ug/m3	ND	1.2	07/27/12 13:12	
2-Butanone (MEK)	ug/m3	ND	0.60	07/27/12 13:12	
2-Hexanone	ug/m3	ND	0.83	07/27/12 13:12	
2-Propanol	ug/m3	ND	0.50	07/27/12 13:12	
4-Ethyltoluene	ug/m3	ND	1.0	07/27/12 13:12	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	0.83	07/27/12 13:12	
Acetone	ug/m3	ND	0.48	07/27/12 13:12	
Benzene	ug/m3	ND	0.32	07/27/12 13:12	
Benzyl chloride	ug/m3	ND	1.0	07/27/12 13:12	
Bromodichloromethane	ug/m3	ND	1.4	07/27/12 13:12	
Bromoform	ug/m3	ND	2.1	07/27/12 13:12	
Bromomethane	ug/m3	ND	0.79	07/27/12 13:12	
Carbon disulfide	ug/m3	ND	0.63	07/27/12 13:12	
Carbon tetrachloride	ug/m3	ND	0.64	07/27/12 13:12	
Chlorobenzene	ug/m3	ND	0.94	07/27/12 13:12	
Chloroethane	ug/m3	ND	0.54	07/27/12 13:12	
Chloroform	ug/m3	ND	0.99	07/27/12 13:12	
Chloromethane	ug/m3	ND	0.42	07/27/12 13:12	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	07/27/12 13:12	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	07/27/12 13:12	
Cyclohexane	ug/m3	ND	0.70	07/27/12 13:12	
Dibromochloromethane	ug/m3	ND	1.7	07/27/12 13:12	
Dichlorodifluoromethane	ug/m3	ND	1.0	07/27/12 13:12	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	07/27/12 13:12	
Ethanol	ug/m3	ND	0.38	07/27/12 13:12	
Ethyl acetate	ug/m3	ND	0.73	07/27/12 13:12	
Ethylbenzene	ug/m3	ND	0.88	07/27/12 13:12	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	07/27/12 13:12	

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REPORT OF LABORATORY ANALYSIS

Page 7 of 11

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER

Pace Project No.: 10199473

METHOD BLANK: 1251716

Matrix: Air

Associated Lab Samples: 10199473001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/m3	ND	1.8	07/27/12 13:12	
Methyl-tert-butyl ether	ug/m3	ND	0.73	07/27/12 13:12	
Methylene Chloride	ug/m3	ND	0.71	07/27/12 13:12	
n-Heptane	ug/m3	ND	0.83	07/27/12 13:12	
n-Hexane	ug/m3	ND	0.72	07/27/12 13:12	
Naphthalene	ug/m3	ND	1.1	07/27/12 13:12	
o-Xylene	ug/m3	ND	0.88	07/27/12 13:12	
Propylene	ug/m3	ND	0.35	07/27/12 13:12	
Styrene	ug/m3	ND	0.87	07/27/12 13:12	
Tetrachloroethene	ug/m3	ND	0.69	07/27/12 13:12	
Tetrahydrofuran	ug/m3	ND	0.60	07/27/12 13:12	
Toluene	ug/m3	ND	0.77	07/27/12 13:12	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	07/27/12 13:12	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	07/27/12 13:12	
Trichloroethene	ug/m3	ND	0.55	07/27/12 13:12	
Trichlorofluoromethane	ug/m3	ND	1.1	07/27/12 13:12	
Vinyl acetate	ug/m3	ND	0.72	07/27/12 13:12	
Vinyl chloride	ug/m3	ND	0.26	07/27/12 13:12	

LABORATORY CONTROL SAMPLE: 1251717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	50.1	90	72-129	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	62.7	90	73-131	
1,1,2-Trichloroethane	ug/m3	55.5	59.1	106	71-128	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	68.9	88	65-132	
1,1-Dichloroethane	ug/m3	41.2	37.9	92	67-132	
1,1-Dichloroethene	ug/m3	40.3	36.5	90	68-134	
1,2,4-Trichlorobenzene	ug/m3	75.5	64.3	85	48-150	SS
1,2,4-Trimethylbenzene	ug/m3	50	44.3	89	72-127	
1,2-Dibromoethane (EDB)	ug/m3	78.1	74.8	96	75-130	
1,2-Dichlorobenzene	ug/m3	61.2	49.8	81	71-132	
1,2-Dichloroethane	ug/m3	41.2	35.7	87	70-131	
1,2-Dichloropropane	ug/m3	47	39.9	85	73-130	
1,3,5-Trimethylbenzene	ug/m3	50	44.8	90	70-133	
1,3-Butadiene	ug/m3	22.5	19.8	88	69-132	
1,3-Dichlorobenzene	ug/m3	61.2	54.5	89	71-128	
1,4-Dichlorobenzene	ug/m3	61.2	52.5	86	72-131	
2-Butanone (MEK)	ug/m3	30	29.6	99	69-131	
2-Hexanone	ug/m3	41.7	40.3	97	71-134	
2-Propanol	ug/m3	25	24.5	98	72-132	
4-Ethyltoluene	ug/m3	50	44.0	88	71-129	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	41.0	98	69-135	
Acetone	ug/m3	24.2	23.8	98	61-139	
Benzene	ug/m3	32.5	32.3	99	69-134	

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REPORT OF LABORATORY ANALYSIS

Page 8 of 11

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER

Pace Project No.: 10199473

LABORATORY CONTROL SAMPLE: 1251717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzyl chloride	ug/m3	52.5	43.7	83	70-129	
Bromodichloromethane	ug/m3	68.2	59.1	87	71-130	
Bromoform	ug/m3	105	99.7	95	70-130	
Bromomethane	ug/m3	39.5	32.7	83	69-125	
Carbon disulfide	ug/m3	31.7	26.0	82	66-131	
Carbon tetrachloride	ug/m3	64	58.8	92	68-128	
Chlorobenzene	ug/m3	46.8	40.3	86	75-128	
Chloroethane	ug/m3	26.8	21.9	82	66-131	
Chloroform	ug/m3	49.7	44.9	90	68-132	
Chloromethane	ug/m3	21	18.5	88	60-139	
cis-1,2-Dichloroethene	ug/m3	40.3	43.3	108	73-130	
cis-1,3-Dichloropropene	ug/m3	46.2	48.7	106	74-134	
Cyclohexane	ug/m3	35	39.0	111	67-136	
Dibromochloromethane	ug/m3	86.6	81.1	94	69-131	
Dichlorodifluoromethane	ug/m3	50.3	44.8	89	67-131	
Dichlorotetrafluoroethane	ug/m3	71.1	61.3	86	66-130	
Ethanol	ug/m3	19.2	17.8	93	69-131	SS
Ethyl acetate	ug/m3	36.6	40.3	110	71-131	
Ethylbenzene	ug/m3	44.2	43.4	98	69-139	
Hexachloro-1,3-butadiene	ug/m3	108	105	97	41-150	SS
m&p-Xylene	ug/m3	88.3	80.9	92	66-137	
Methyl-tert-butyl ether	ug/m3	36.7	37.0	101	70-132	
Methylene Chloride	ug/m3	35.3	31.4	89	73-134	
n-Heptane	ug/m3	41.7	44.4	107	70-134	
n-Hexane	ug/m3	35.8	38.4	107	65-133	
Naphthalene	ug/m3	53.3	43.3	81	57-150	SS
o-Xylene	ug/m3	44.2	41.8	95	69-138	
Propylene	ug/m3	17.5	17.3	99	70-134	
Styrene	ug/m3	43.3	42.2	97	72-132	
Tetrachloroethene	ug/m3	69	62.7	91	70-130	
Tetrahydrofuran	ug/m3	30	29.4	98	74-128	
Toluene	ug/m3	38.3	35.7	93	71-132	
trans-1,2-Dichloroethene	ug/m3	40.3	36.9	91	72-128	
trans-1,3-Dichloropropene	ug/m3	46.2	45.9	99	73-130	
Trichloroethene	ug/m3	54.6	49.2	90	72-131	
Trichlorofluoromethane	ug/m3	57.1	50.2	88	66-129	
Vinyl acetate	ug/m3	35.8	37.4	105	71-131	
Vinyl chloride	ug/m3	26	22.2	86	70-131	

QUALIFIERS

Project: CRC CITY OF ROCHESTER

Pace Project No.: 10199473

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.

PRL - Pace Reporting Limit.

RL - Reporting 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 TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 10199473001

[1] This result is reported from a serial dilution

ANALYTE QUALIFIERS

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.: 10199473

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10199473001	DPE-EXHAUST-1660	TO-15	AIR/15410		

CHAIN-OF-CUSTODY / Analytical Request Document

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



10199473

10199473

Section A Required Client Information:
 Company: Landmark Environmental
 Address: 2042 W. 98th Street
 Bloomington, MN 55431

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 #:

REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER

SITE LOCATION
 SA L N
 CH SC VI THER

#	DIP E - EX H A U S T - 1 6 6 0	Valid Matrix Codes MATRIX	CODE	Sample Type	Matrix Code	COLLECTED		# OF CONTAINERS	PRESERVATIVES						Filtered (Y/N)	Requested Analyte	Pace Project Number Lab ID
						COMPOSITE START	COMPOSITE END		Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₈			
1				A	C	7/19/12	9:50	7/19/12	15:50								
2																	
3																	
4																	
5																	
6																	
7																	
8																	

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAFETY CONDITIONS
TW/Pace	7/20/12	9:30				Received on ice
						Sealed Cooler
						Custody
						Samples Intact

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



Document Name:
Air Sample Condition Upon Receipt
Document No.:
F-MN-A-106-rev.04

Document Revised: 19Jun2012
Page 1 of 1
Issuing Authority:
Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: Landmark

Project #:

WO#: **10199473**

 10199473

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

Tracking Number: _____

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No

Optional: Proj. Due Date: _____ Proj. Name: _____

Packing Material: Bubble Wrap Bubble Bags Foam None Other: _____

Temperature (TO17 and TO13 samples only): _____ Thermometer Used: 80344042 80512447
 Temp should be above freezing to 6°C Date & Initials of Person Examining Contents: 7/20/12

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 and 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 (<72 hr)?	<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 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>air can</u>				11.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	12.

Canisters		Flow Controllers		Stand Alone G	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
<u>DPE-Exhaust</u>	<u>1660</u>				

CLIENT NOTIFICATION/RESOLUTION Field Data Required? Yes No
 Person Contacted: _____ Date/Time: _____
 Comments/Resolution: _____

Project Manager Review: CTM Date: 7/20/12
 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)

August 31, 2012

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

RE: Project: CRC City of Rochester
Pace Project No.: 10203330

Dear Mr. Skramstad:

Enclosed are the analytical results for sample(s) received by the laboratory on August 23, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted 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.: 10203330

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

Virginia/DCLS Certification #: 002521

Virginia/VELAP Certification #: 460163

Washington Certification #: C754

Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

Page 2 of 11

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SAMPLE SUMMARY

Project: CRC City of Rochester
Pace Project No.: 10203330

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10203330001	DPE-EXHAUST-2048	Air	08/23/12 12:30	08/23/12 15:57

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: CRC City of Rochester

Pace Project No.: 10203330

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10203330001	DPE-EXHAUST-2048	TO-15	CJR	61

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10203330

Sample: DPE-EXHAUST-2048		Lab ID: 10203330001	Collected: 08/23/12 12:30	Received: 08/23/12 15:57	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	ND	ug/m3	207	430.4		08/25/12 01:30	67-64-1	
Benzene	ND	ug/m3	140	430.4		08/25/12 01:30	71-43-2	
Benzyl chloride	ND	ug/m3	452	430.4		08/25/12 01:30	100-44-7	
Bromodichloromethane	ND	ug/m3	585	430.4		08/25/12 01:30	75-27-4	
Bromoform	ND	ug/m3	904	430.4		08/25/12 01:30	75-25-2	
Bromomethane	ND	ug/m3	340	430.4		08/25/12 01:30	74-83-9	
1,3-Butadiene	ND	ug/m3	194	430.4		08/25/12 01:30	106-99-0	
2-Butanone (MEK)	ND	ug/m3	258	430.4		08/25/12 01:30	78-93-3	
Carbon disulfide	ND	ug/m3	271	430.4		08/25/12 01:30	75-15-0	
Carbon tetrachloride	ND	ug/m3	275	430.4		08/25/12 01:30	56-23-5	
Chlorobenzene	ND	ug/m3	405	430.4		08/25/12 01:30	108-90-7	
Chloroethane	ND	ug/m3	232	430.4		08/25/12 01:30	75-00-3	
Chloroform	ND	ug/m3	426	430.4		08/25/12 01:30	67-66-3	
Chloromethane	ND	ug/m3	181	430.4		08/25/12 01:30	74-87-3	
Cyclohexane	ND	ug/m3	301	430.4		08/25/12 01:30	110-82-7	
Dibromochloromethane	ND	ug/m3	745	430.4		08/25/12 01:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	671	430.4		08/25/12 01:30	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	525	430.4		08/25/12 01:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	525	430.4		08/25/12 01:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	525	430.4		08/25/12 01:30	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	435	430.4		08/25/12 01:30	75-71-8	
1,1-Dichloroethane	ND	ug/m3	353	430.4		08/25/12 01:30	75-34-3	
1,2-Dichloroethane	ND	ug/m3	176	430.4		08/25/12 01:30	107-06-2	
1,1-Dichloroethene	ND	ug/m3	349	430.4		08/25/12 01:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	349	430.4		08/25/12 01:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	349	430.4		08/25/12 01:30	156-60-5	
1,2-Dichloropropane	ND	ug/m3	405	430.4		08/25/12 01:30	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	396	430.4		08/25/12 01:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	396	430.4		08/25/12 01:30	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	611	430.4		08/25/12 01:30	76-14-2	
Ethanol	ND	ug/m3	164	430.4		08/25/12 01:30	64-17-5	
Ethyl acetate	ND	ug/m3	314	430.4		08/25/12 01:30	141-78-6	
Ethylbenzene	ND	ug/m3	379	430.4		08/25/12 01:30	100-41-4	
4-Ethyltoluene	ND	ug/m3	430	430.4		08/25/12 01:30	622-96-8	
n-Heptane	ND	ug/m3	357	430.4		08/25/12 01:30	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	947	430.4		08/25/12 01:30	87-68-3	
n-Hexane	ND	ug/m3	310	430.4		08/25/12 01:30	110-54-3	
2-Hexanone	ND	ug/m3	357	430.4		08/25/12 01:30	591-78-6	
Methylene Chloride	ND	ug/m3	306	430.4		08/25/12 01:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	357	430.4		08/25/12 01:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	314	430.4		08/25/12 01:30	1634-04-4	
Naphthalene	ND	ug/m3	461	430.4		08/25/12 01:30	91-20-3	
2-Propanol	ND	ug/m3	215	430.4		08/25/12 01:30	67-63-0	
Propylene	ND	ug/m3	151	430.4		08/25/12 01:30	115-07-1	
Styrene	ND	ug/m3	374	430.4		08/25/12 01:30	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	300	430.4		08/25/12 01:30	79-34-5	
Tetrachloroethene	27800	ug/m3	297	430.4		08/25/12 01:30	127-18-4	

Date: 08/31/2012 08:45 AM

REPORT OF LABORATORY ANALYSIS

Page 5 of 11

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10203330

Sample: DPE-EXHAUST-2048		Lab ID: 10203330001	Collected: 08/23/12 12:30	Received: 08/23/12 15:57	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Tetrahydrofuran	ND	ug/m3	258	430.4		08/25/12 01:30	109-99-9	
Toluene	ND	ug/m3	331	430.4		08/25/12 01:30	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	650	430.4		08/25/12 01:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	478	430.4		08/25/12 01:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	237	430.4		08/25/12 01:30	79-00-5	
Trichloroethene	ND	ug/m3	237	430.4		08/25/12 01:30	79-01-6	
Trichlorofluoromethane	ND	ug/m3	491	430.4		08/25/12 01:30	75-69-4	
1,1,2-Trichlorotrifluoroethane	26900	ug/m3	689	430.4		08/25/12 01:30	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	430	430.4		08/25/12 01:30	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	430	430.4		08/25/12 01:30	108-67-8	
Vinyl acetate	ND	ug/m3	308	430.4		08/25/12 01:30	108-05-4	
Vinyl chloride	ND	ug/m3	112	430.4		08/25/12 01:30	75-01-4	
m&p-Xylene	ND	ug/m3	758	430.4		08/25/12 01:30	179601-23-1	
o-Xylene	ND	ug/m3	379	430.4		08/25/12 01:30	95-47-6	

QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10203330

QC Batch: AIR/15599 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10203330001

METHOD BLANK: 1274393 Matrix: Air
Associated Lab Samples: 10203330001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	08/24/12 15:25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	08/24/12 15:25	
1,1,2-Trichloroethane	ug/m3	ND	0.55	08/24/12 15:25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	08/24/12 15:25	
1,1-Dichloroethane	ug/m3	ND	0.82	08/24/12 15:25	
1,1-Dichloroethene	ug/m3	ND	0.81	08/24/12 15:25	
1,2,4-Trichlorobenzene	ug/m3	ND	1.5	08/24/12 15:25	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	08/24/12 15:25	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	08/24/12 15:25	
1,2-Dichlorobenzene	ug/m3	ND	1.2	08/24/12 15:25	
1,2-Dichloroethane	ug/m3	ND	0.41	08/24/12 15:25	
1,2-Dichloropropane	ug/m3	ND	0.94	08/24/12 15:25	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	08/24/12 15:25	
1,3-Butadiene	ug/m3	ND	0.45	08/24/12 15:25	
1,3-Dichlorobenzene	ug/m3	ND	1.2	08/24/12 15:25	
1,4-Dichlorobenzene	ug/m3	ND	1.2	08/24/12 15:25	
2-Butanone (MEK)	ug/m3	ND	0.60	08/24/12 15:25	
2-Hexanone	ug/m3	ND	0.83	08/24/12 15:25	
2-Propanol	ug/m3	ND	0.50	08/24/12 15:25	
4-Ethyltoluene	ug/m3	ND	1.0	08/24/12 15:25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	0.83	08/24/12 15:25	
Acetone	ug/m3	ND	0.48	08/24/12 15:25	
Benzene	ug/m3	ND	0.32	08/24/12 15:25	
Benzyl chloride	ug/m3	ND	1.0	08/24/12 15:25	
Bromodichloromethane	ug/m3	ND	1.4	08/24/12 15:25	
Bromoform	ug/m3	ND	2.1	08/24/12 15:25	
Bromomethane	ug/m3	ND	0.79	08/24/12 15:25	
Carbon disulfide	ug/m3	ND	0.63	08/24/12 15:25	
Carbon tetrachloride	ug/m3	ND	0.64	08/24/12 15:25	
Chlorobenzene	ug/m3	ND	0.94	08/24/12 15:25	
Chloroethane	ug/m3	ND	0.54	08/24/12 15:25	
Chloroform	ug/m3	ND	0.99	08/24/12 15:25	
Chloromethane	ug/m3	ND	0.42	08/24/12 15:25	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	08/24/12 15:25	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	08/24/12 15:25	
Cyclohexane	ug/m3	ND	0.70	08/24/12 15:25	
Dibromochloromethane	ug/m3	ND	1.7	08/24/12 15:25	
Dichlorodifluoromethane	ug/m3	ND	1.0	08/24/12 15:25	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	08/24/12 15:25	
Ethanol	ug/m3	ND	0.38	08/24/12 15:25	
Ethyl acetate	ug/m3	ND	0.73	08/24/12 15:25	
Ethylbenzene	ug/m3	ND	0.88	08/24/12 15:25	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	08/24/12 15:25	

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REPORT OF LABORATORY ANALYSIS

Page 7 of 11

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10203330

METHOD BLANK: 1274393

Matrix: Air

Associated Lab Samples: 10203330001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/m3	ND	1.8	08/24/12 15:25	
Methyl-tert-butyl ether	ug/m3	ND	0.73	08/24/12 15:25	
Methylene Chloride	ug/m3	ND	0.71	08/24/12 15:25	
n-Heptane	ug/m3	ND	0.83	08/24/12 15:25	
n-Hexane	ug/m3	ND	0.72	08/24/12 15:25	
Naphthalene	ug/m3	ND	1.1	08/24/12 15:25	
o-Xylene	ug/m3	ND	0.88	08/24/12 15:25	
Propylene	ug/m3	ND	0.35	08/24/12 15:25	
Styrene	ug/m3	ND	0.87	08/24/12 15:25	
Tetrachloroethene	ug/m3	ND	0.69	08/24/12 15:25	
Tetrahydrofuran	ug/m3	ND	0.60	08/24/12 15:25	
Toluene	ug/m3	ND	0.77	08/24/12 15:25	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	08/24/12 15:25	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	08/24/12 15:25	
Trichloroethene	ug/m3	ND	0.55	08/24/12 15:25	
Trichlorofluoromethane	ug/m3	ND	1.1	08/24/12 15:25	
Vinyl acetate	ug/m3	ND	0.72	08/24/12 15:25	
Vinyl chloride	ug/m3	ND	0.26	08/24/12 15:25	

LABORATORY CONTROL SAMPLE: 1274394

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	59.8	108	72-129	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	74.4	107	73-131	
1,1,2-Trichloroethane	ug/m3	55.5	56.1	101	71-128	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	77.8	100	65-132	
1,1-Dichloroethane	ug/m3	41.2	41.6	101	67-132	
1,1-Dichloroethene	ug/m3	40.3	42.0	104	68-134	
1,2,4-Trichlorobenzene	ug/m3	75.5	79.2	105	48-150	
1,2,4-Trimethylbenzene	ug/m3	50	49.9	100	72-127	
1,2-Dibromoethane (EDB)	ug/m3	78.1	87.9	113	75-130	
1,2-Dichlorobenzene	ug/m3	61.2	58.0	95	71-132	
1,2-Dichloroethane	ug/m3	41.2	43.4	105	70-131	
1,2-Dichloropropane	ug/m3	47	48.1	102	73-130	
1,3,5-Trimethylbenzene	ug/m3	50	51.0	102	70-133	
1,3-Butadiene	ug/m3	22.5	21.5	96	69-132	
1,3-Dichlorobenzene	ug/m3	61.2	60.1	98	71-128	
1,4-Dichlorobenzene	ug/m3	61.2	64.2	105	72-131	
2-Butanone (MEK)	ug/m3	30	33.3	111	69-131	
2-Hexanone	ug/m3	41.7	42.1	101	71-134	
2-Propanol	ug/m3	25	29.2	117	72-132	
4-Ethyltoluene	ug/m3	50	49.3	99	71-129	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	51.2	123	69-135	
Acetone	ug/m3	24.2	24.1	100	61-139	
Benzene	ug/m3	32.5	34.6	107	69-134	

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REPORT OF LABORATORY ANALYSIS

Page 8 of 11

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10203330

LABORATORY CONTROL SAMPLE: 1274394

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzyl chloride	ug/m3	52.5	51.6	98	70-129	
Bromodichloromethane	ug/m3	68.2	70.6	104	71-130	
Bromoform	ug/m3	105	112	107	70-130	
Bromomethane	ug/m3	39.5	35.5	90	69-125	
Carbon disulfide	ug/m3	31.7	30.3	96	66-131	
Carbon tetrachloride	ug/m3	64	62.6	98	68-128	
Chlorobenzene	ug/m3	46.8	49.3	105	75-128	
Chloroethane	ug/m3	26.8	25.7	96	66-131	
Chloroform	ug/m3	49.7	51.1	103	68-132	
Chloromethane	ug/m3	21	20.8	99	60-139	
cis-1,2-Dichloroethene	ug/m3	40.3	45.5	113	73-130	
cis-1,3-Dichloropropene	ug/m3	46.2	54.2	117	74-134	
Cyclohexane	ug/m3	35	40.0	114	67-136	
Dibromochloromethane	ug/m3	86.6	91.5	106	69-131	
Dichlorodifluoromethane	ug/m3	50.3	48.7	97	67-131	
Dichlorotetrafluoroethane	ug/m3	71.1	70.2	99	66-130	
Ethanol	ug/m3	19.2	18.3	95	69-131	
Ethyl acetate	ug/m3	36.6	42.6	116	71-131	
Ethylbenzene	ug/m3	44.2	45.6	103	69-139	
Hexachloro-1,3-butadiene	ug/m3	108	125	115	41-150	
m&p-Xylene	ug/m3	88.3	93.4	106	66-137	
Methyl-tert-butyl ether	ug/m3	36.7	41.5	113	70-132	
Methylene Chloride	ug/m3	35.3	37.4	106	73-134	
n-Heptane	ug/m3	41.7	41.6	100	70-134	
n-Hexane	ug/m3	35.8	36.2	101	65-133	
Naphthalene	ug/m3	53.3	73.8	138	57-150	
o-Xylene	ug/m3	44.2	45.9	104	69-138	
Propylene	ug/m3	17.5	17.9	102	70-134	
Styrene	ug/m3	43.3	44.4	103	72-132	
Tetrachloroethene	ug/m3	69	74.1	107	70-130	
Tetrahydrofuran	ug/m3	30	29.6	99	74-128	
Toluene	ug/m3	38.3	39.3	103	71-132	
trans-1,2-Dichloroethene	ug/m3	40.3	41.0	102	72-128	
trans-1,3-Dichloropropene	ug/m3	46.2	45.3	98	73-130	
Trichloroethene	ug/m3	54.6	57.3	105	72-131	
Trichlorofluoromethane	ug/m3	57.1	55.5	97	66-129	
Vinyl acetate	ug/m3	35.8	41.4	116	71-131	
Vinyl chloride	ug/m3	26	24.8	96	70-131	

QUALIFIERS

Project: CRC City of Rochester

Pace Project No.: 10203330

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.

PRL - Pace Reporting Limit.

RL - Reporting 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 TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 10203330001

[1] This result is reported from a serial dilution

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC City of Rochester

Pace Project No.: 10203330

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10203330001	DPE-EXHAUST-2048	TO-15	AIR/15599		

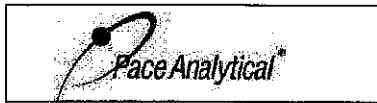


CHAIN-OF-CUSTODY / Analytical Request Document

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

1020330

Section A Required Client Information: Company: Landmark Environmental Address: 2042 W. 98th Street Bloomington, MN 55431 Email To: iskramstad@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: ORC		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 #:		Page: 1 of 1 REGULATORY AGENCY <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER SITE <input type="checkbox"/> 3A <input type="checkbox"/> L <input type="checkbox"/> N <input type="checkbox"/> P <input type="checkbox"/> F LOCATION <input type="checkbox"/> CH <input type="checkbox"/> SC <input type="checkbox"/> VI <input type="checkbox"/> THER							
Section D Required Client Information SAMPLE ID One Character per box. (A-Z, 0-9 / -) IDs MUST BE UNIQUE		Valid Matrix Codes MATRIX CODE DRINKING WATER DW WASTE WATER WW WASTEWATER S SOIL/SOLID SL OIL GLWP WIRE AR OTHER VT TISSUE TS		SAMPLE TYPE MATRIX CODE A C		COLLECTED COMPOSITE START TIME DATE 0.29167 8/23/12 12:30 COMPOSITE END TIME DATE 0.29167 8/23/12 12:30		# OF CONTAINERS PRESERVATIVES Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₈ Methanol Other		Requested Ant TO-15		Pace Project Number Lab ID: 1020330001	
# ITEM 1 D P E - E X H A U S T - 2 0 4 8 2 3 4 5 6 7 8										REQUISITIONED BY / AFFILIATION DATE TIME 8/23/12 15:57 ACCEPTED BY / AFFILIATION DATE TIME CS1 Pace 8/23/12 19:7		SAMPLE CONDITIONS Received on Ice Y/N Custody Sealed Cooler Y/N Samples Intact Y/N	
Additional Comments:													
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: Eric Gabrielson SIGNATURE of SAMPLER: [Signature] DATE Signed (MM/DD/YYYY) 8/23/12													



Document Name:
Air Sample Condition Upon Receipt

Document No:
F-MN-A-106-rev.04

Document Revised: 19Jun2012
Page 1 of 1

Issuing Authority:
Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: LANDMARK

Project #: _____

WO# : 10203330

10203330

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

Tracking Number: _____

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No Optional: Proj. Due Date: _____ Proj. Name: _____

Packing Material: Bubble Wrap Bubble Bags Foam None Other: Box

Temperature (TO17 and TO13 samples only): Air Thermometer Used: 80344042 80512447
 Temp should be above freezing to 6°C Date & Initials of Person Examining Contents: 8/23/12 JF

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 and 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 (<72 hr)?	<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>AIR (CAN)</u>				11.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	12.

Samples Received: 1 CAN, 1 FC

Canisters		Flow Controllers		Stand Alone G	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
<u>DPE-EXHAUST 2018</u>	<u>2098</u>		<u>FC0039</u>		

CLIENT NOTIFICATION/RESOLUTION Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: CDW Date: 8/24/12

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)

October 03, 2012

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

RE: Project: CRC City of Rochester
Pace Project No.: 10206911

Dear Mr. Skramstad:

Enclosed are the analytical results for sample(s) received by the laboratory on September 27, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Carolynne Trout

Carolynne Trout

carolynne.trout@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CRC City of Rochester

Pace Project No.: 10206911

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

Colorado Certification #Pace

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: Pace

Florida/NELAP Certification #: E87605

Georgia Certification #: 959

Hawaii Certification #Pace

Idaho Certification #: MN00064

Illinois Certification #: 200011

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 York Certification #: 11647

North Carolina Certification #: 530

North Dakota Certification #: R-036

North Dakota Certification #: R-036A

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Oregon Certification #: MN300001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Tennessee Certification #: 02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Virginia/DCLS Certification #: 002521

Virginia/VELAP Certification #: 460163

Washington Certification #: C754

West Virginia Certification #: 382

Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

Page 2 of 13

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SAMPLE SUMMARY

Project: CRC City of Rochester

Pace Project No.: 10206911

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10206911001	DPE-Exhaust-0795	Air	09/26/12 19:00	09/27/12 16:40

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: CRC City of Rochester

Pace Project No.: 10206911

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10206911001	DPE-Exhaust-0795	TO-15	CJR	61

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10206911

Sample: DPE-Exhaust-0795	Lab ID: 10206911001	Collected: 09/26/12 19:00	Received: 09/27/12 16:40	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	169	ug/m3	129	268.8		10/02/12 00:29	67-64-1	
Benzene	ND	ug/m3	87.4	268.8		10/02/12 00:29	71-43-2	
Benzyl chloride	ND	ug/m3	282	268.8		10/02/12 00:29	100-44-7	
Bromodichloromethane	ND	ug/m3	366	268.8		10/02/12 00:29	75-27-4	
Bromoform	ND	ug/m3	564	268.8		10/02/12 00:29	75-25-2	
Bromomethane	ND	ug/m3	212	268.8		10/02/12 00:29	74-83-9	
1,3-Butadiene	ND	ug/m3	121	268.8		10/02/12 00:29	106-99-0	
2-Butanone (MEK)	ND	ug/m3	161	268.8		10/02/12 00:29	78-93-3	
Carbon disulfide	ND	ug/m3	169	268.8		10/02/12 00:29	75-15-0	
Carbon tetrachloride	ND	ug/m3	172	268.8		10/02/12 00:29	56-23-5	
Chlorobenzene	ND	ug/m3	253	268.8		10/02/12 00:29	108-90-7	
Chloroethane	ND	ug/m3	145	268.8		10/02/12 00:29	75-00-3	
Chloroform	ND	ug/m3	266	268.8		10/02/12 00:29	67-66-3	
Chloromethane	ND	ug/m3	113	268.8		10/02/12 00:29	74-87-3	
Cyclohexane	ND	ug/m3	188	268.8		10/02/12 00:29	110-82-7	
Dibromochloromethane	ND	ug/m3	465	268.8		10/02/12 00:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	419	268.8		10/02/12 00:29	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	328	268.8		10/02/12 00:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	328	268.8		10/02/12 00:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	328	268.8		10/02/12 00:29	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	271	268.8		10/02/12 00:29	75-71-8	
1,1-Dichloroethane	ND	ug/m3	220	268.8		10/02/12 00:29	75-34-3	
1,2-Dichloroethane	ND	ug/m3	110	268.8		10/02/12 00:29	107-06-2	
1,1-Dichloroethene	ND	ug/m3	218	268.8		10/02/12 00:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	218	268.8		10/02/12 00:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	218	268.8		10/02/12 00:29	156-60-5	
1,2-Dichloropropane	ND	ug/m3	253	268.8		10/02/12 00:29	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	247	268.8		10/02/12 00:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	247	268.8		10/02/12 00:29	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	382	268.8		10/02/12 00:29	76-14-2	
Ethanol	18700	ug/m3	409	1075.2		10/02/12 14:11	64-17-5	
Ethyl acetate	1190	ug/m3	196	268.8		10/02/12 00:29	141-78-6	
Ethylbenzene	ND	ug/m3	237	268.8		10/02/12 00:29	100-41-4	
4-Ethyltoluene	ND	ug/m3	269	268.8		10/02/12 00:29	622-96-8	
n-Heptane	ND	ug/m3	223	268.8		10/02/12 00:29	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	591	268.8		10/02/12 00:29	87-68-3	
n-Hexane	ND	ug/m3	194	268.8		10/02/12 00:29	110-54-3	
2-Hexanone	ND	ug/m3	223	268.8		10/02/12 00:29	591-78-6	
Methylene Chloride	ND	ug/m3	191	268.8		10/02/12 00:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	223	268.8		10/02/12 00:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	196	268.8		10/02/12 00:29	1634-04-4	
Naphthalene	ND	ug/m3	288	268.8		10/02/12 00:29	91-20-3	
2-Propanol	ND	ug/m3	134	268.8		10/02/12 00:29	67-63-0	
Propylene	ND	ug/m3	94.1	268.8		10/02/12 00:29	115-07-1	
Styrene	ND	ug/m3	234	268.8		10/02/12 00:29	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	188	268.8		10/02/12 00:29	79-34-5	
Tetrachloroethene	45800	ug/m3	741	1075.2		10/02/12 14:11	127-18-4	

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REPORT OF LABORATORY ANALYSIS

Page 5 of 13

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10206911

Sample: DPE-Exhaust-0795		Lab ID: 10206911001	Collected: 09/26/12 19:00	Received: 09/27/12 16:40	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Tetrahydrofuran	ND	ug/m3	161	268.8		10/02/12 00:29	109-99-9	
Toluene	ND	ug/m3	207	268.8		10/02/12 00:29	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	406	268.8		10/02/12 00:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	298	268.8		10/02/12 00:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	148	268.8		10/02/12 00:29	79-00-5	
Trichloroethene	ND	ug/m3	148	268.8		10/02/12 00:29	79-01-6	
Trichlorofluoromethane	ND	ug/m3	306	268.8		10/02/12 00:29	75-69-4	
1,1,2-Trichlorotrifluoroethane	34800	ug/m3	430	268.8		10/02/12 00:29	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	269	268.8		10/02/12 00:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	269	268.8		10/02/12 00:29	108-67-8	
Vinyl acetate	ND	ug/m3	192	268.8		10/02/12 00:29	108-05-4	
Vinyl chloride	ND	ug/m3	69.9	268.8		10/02/12 00:29	75-01-4	
m&p-Xylene	ND	ug/m3	473	268.8		10/02/12 00:29	179601-23-1	
o-Xylene	ND	ug/m3	237	268.8		10/02/12 00:29	95-47-6	

QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10206911

QC Batch: AIR/15851 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10206911001

METHOD BLANK: 1299608 Matrix: Air
Associated Lab Samples: 10206911001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	10/01/12 14:49	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	10/01/12 14:49	
1,1,2-Trichloroethane	ug/m3	ND	0.55	10/01/12 14:49	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	10/01/12 14:49	
1,1-Dichloroethane	ug/m3	ND	0.82	10/01/12 14:49	
1,1-Dichloroethene	ug/m3	ND	0.81	10/01/12 14:49	
1,2,4-Trichlorobenzene	ug/m3	ND	1.5	10/01/12 14:49	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	10/01/12 14:49	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	10/01/12 14:49	
1,2-Dichlorobenzene	ug/m3	ND	1.2	10/01/12 14:49	
1,2-Dichloroethane	ug/m3	ND	0.41	10/01/12 14:49	
1,2-Dichloropropane	ug/m3	ND	0.94	10/01/12 14:49	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	10/01/12 14:49	
1,3-Butadiene	ug/m3	ND	0.45	10/01/12 14:49	
1,3-Dichlorobenzene	ug/m3	ND	1.2	10/01/12 14:49	
1,4-Dichlorobenzene	ug/m3	ND	1.2	10/01/12 14:49	
2-Butanone (MEK)	ug/m3	ND	0.60	10/01/12 14:49	
2-Hexanone	ug/m3	ND	0.83	10/01/12 14:49	
2-Propanol	ug/m3	ND	0.50	10/01/12 14:49	
4-Ethyltoluene	ug/m3	ND	1.0	10/01/12 14:49	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	0.83	10/01/12 14:49	
Acetone	ug/m3	ND	0.48	10/01/12 14:49	
Benzene	ug/m3	ND	0.32	10/01/12 14:49	
Benzyl chloride	ug/m3	ND	1.0	10/01/12 14:49	
Bromodichloromethane	ug/m3	ND	1.4	10/01/12 14:49	
Bromoform	ug/m3	ND	2.1	10/01/12 14:49	
Bromomethane	ug/m3	ND	0.79	10/01/12 14:49	
Carbon disulfide	ug/m3	ND	0.63	10/01/12 14:49	
Carbon tetrachloride	ug/m3	ND	0.64	10/01/12 14:49	
Chlorobenzene	ug/m3	ND	0.94	10/01/12 14:49	
Chloroethane	ug/m3	ND	0.54	10/01/12 14:49	
Chloroform	ug/m3	ND	0.99	10/01/12 14:49	
Chloromethane	ug/m3	ND	0.42	10/01/12 14:49	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	10/01/12 14:49	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	10/01/12 14:49	
Cyclohexane	ug/m3	ND	0.70	10/01/12 14:49	
Dibromochloromethane	ug/m3	ND	1.7	10/01/12 14:49	
Dichlorodifluoromethane	ug/m3	ND	1.0	10/01/12 14:49	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	10/01/12 14:49	
Ethanol	ug/m3	ND	0.38	10/01/12 14:49	
Ethyl acetate	ug/m3	ND	0.73	10/01/12 14:49	
Ethylbenzene	ug/m3	ND	0.88	10/01/12 14:49	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	10/01/12 14:49	

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REPORT OF LABORATORY ANALYSIS

Page 7 of 13

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10206911

METHOD BLANK: 1299608 Matrix: Air

Associated Lab Samples: 10206911001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/m3	ND	1.8	10/01/12 14:49	
Methyl-tert-butyl ether	ug/m3	ND	0.73	10/01/12 14:49	
Methylene Chloride	ug/m3	ND	0.71	10/01/12 14:49	
n-Heptane	ug/m3	ND	0.83	10/01/12 14:49	
n-Hexane	ug/m3	ND	0.72	10/01/12 14:49	
Naphthalene	ug/m3	ND	1.1	10/01/12 14:49	
o-Xylene	ug/m3	ND	0.88	10/01/12 14:49	
Propylene	ug/m3	ND	0.35	10/01/12 14:49	
Styrene	ug/m3	ND	0.87	10/01/12 14:49	
Tetrachloroethene	ug/m3	ND	0.69	10/01/12 14:49	
Tetrahydrofuran	ug/m3	ND	0.60	10/01/12 14:49	
Toluene	ug/m3	ND	0.77	10/01/12 14:49	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	10/01/12 14:49	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	10/01/12 14:49	
Trichloroethene	ug/m3	ND	0.55	10/01/12 14:49	
Trichlorofluoromethane	ug/m3	ND	1.1	10/01/12 14:49	
Vinyl acetate	ug/m3	ND	0.72	10/01/12 14:49	
Vinyl chloride	ug/m3	ND	0.26	10/01/12 14:49	

LABORATORY CONTROL SAMPLE: 1299609

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	57.7	104	72-129	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	84.0	120	73-131	
1,1,2-Trichloroethane	ug/m3	55.5	58.3	105	71-128	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	78.1	100	65-132	
1,1-Dichloroethane	ug/m3	41.2	41.6	101	67-132	
1,1-Dichloroethene	ug/m3	40.3	41.7	103	68-134	
1,2,4-Trichlorobenzene	ug/m3	75.5	66.9	89	48-150	
1,2,4-Trimethylbenzene	ug/m3	50	51.3	103	72-127	
1,2-Dibromoethane (EDB)	ug/m3	78.1	83.7	107	75-130	
1,2-Dichlorobenzene	ug/m3	61.2	63.9	104	71-132	
1,2-Dichloroethane	ug/m3	41.2	41.1	100	70-131	
1,2-Dichloropropane	ug/m3	47	49.9	106	73-130	
1,3,5-Trimethylbenzene	ug/m3	50	50.6	101	70-133	
1,3-Butadiene	ug/m3	22.5	22.3	99	69-132	
1,3-Dichlorobenzene	ug/m3	61.2	62.1	101	71-128	
1,4-Dichlorobenzene	ug/m3	61.2	75.7	124	72-131	
2-Butanone (MEK)	ug/m3	30	30.8	103	69-131	
2-Hexanone	ug/m3	41.7	48.8	117	71-134	
2-Propanol	ug/m3	25	24.1	96	72-132	
4-Ethyltoluene	ug/m3	50	50.8	102	71-129	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	47.6	114	69-135	
Acetone	ug/m3	24.2	24.8	103	61-139	
Benzene	ug/m3	32.5	33.1	102	69-134	

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REPORT OF LABORATORY ANALYSIS

Page 8 of 13

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10206911

LABORATORY CONTROL SAMPLE: 1299609

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzyl chloride	ug/m3	52.5	53.1	101	70-129	
Bromodichloromethane	ug/m3	68.2	69.6	102	71-130	
Bromoform	ug/m3	105	128	121	70-130	
Bromomethane	ug/m3	39.5	41.3	105	69-125	
Carbon disulfide	ug/m3	31.7	30.1	95	66-131	
Carbon tetrachloride	ug/m3	64	64.9	101	68-128	
Chlorobenzene	ug/m3	46.8	49.4	106	75-128	
Chloroethane	ug/m3	26.8	27.2	101	66-131	
Chloroform	ug/m3	49.7	49.5	100	68-132	
Chloromethane	ug/m3	21	20.9	100	60-139	
cis-1,2-Dichloroethene	ug/m3	40.3	41.9	104	73-130	
cis-1,3-Dichloropropene	ug/m3	46.2	52.5	114	74-134	
Cyclohexane	ug/m3	35	38.4	110	67-136	
Dibromochloromethane	ug/m3	86.6	94.3	109	69-131	
Dichlorodifluoromethane	ug/m3	50.3	50.6	101	67-131	
Dichlorotetrafluoroethane	ug/m3	71.1	72.3	102	66-130	
Ethanol	ug/m3	19.2	18.8	98	69-131	
Ethyl acetate	ug/m3	36.6	38.0	104	71-131	
Ethylbenzene	ug/m3	44.2	52.9	120	69-139	
Hexachloro-1,3-butadiene	ug/m3	108	102	94	41-150	
m&p-Xylene	ug/m3	88.3	102	116	66-137	
Methyl-tert-butyl ether	ug/m3	36.7	38.9	106	70-132	
Methylene Chloride	ug/m3	35.3	35.9	102	73-134	
n-Heptane	ug/m3	41.7	41.5	100	70-134	
n-Hexane	ug/m3	35.8	35.6	99	65-133	
Naphthalene	ug/m3	53.3	54.0	101	57-150	
o-Xylene	ug/m3	44.2	45.2	102	69-138	
Propylene	ug/m3	17.5	16.6	95	70-134	
Styrene	ug/m3	43.3	55.4	128	72-132	
Tetrachloroethene	ug/m3	69	71.9	104	70-130	
Tetrahydrofuran	ug/m3	30	31.3	104	74-128	
Toluene	ug/m3	38.3	38.0	99	71-132	
trans-1,2-Dichloroethene	ug/m3	40.3	41.8	104	72-128	
trans-1,3-Dichloropropene	ug/m3	46.2	46.2	100	73-130	
Trichloroethene	ug/m3	54.6	58.1	106	72-131	
Trichlorofluoromethane	ug/m3	57.1	55.2	97	66-129	
Vinyl acetate	ug/m3	35.8	38.5	107	71-131	
Vinyl chloride	ug/m3	26	26.3	101	70-131	

SAMPLE DUPLICATE: 1300035

Parameter	Units	10207178001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	22.0	20.9	5	25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND		25	
1,1,2-Trichloroethane	ug/m3	ND	ND		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	

Date: 10/03/2012 04:16 PM

REPORT OF LABORATORY ANALYSIS

Page 9 of 13

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10206911

SAMPLE DUPLICATE: 1300035

Parameter	Units	10207178001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1-Dichloroethene	ug/m3	ND	ND		25	
1,2,4-Trichlorobenzene	ug/m3	ND	ND		25	
1,2,4-Trimethylbenzene	ug/m3	1.9	1.7J		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	ND		25	
1,2-Dichlorobenzene	ug/m3	ND	ND		25	
1,2-Dichloroethane	ug/m3	ND	ND		25	
1,2-Dichloropropane	ug/m3	ND	ND		25	
1,3,5-Trimethylbenzene	ug/m3	ND	ND		25	
1,3-Butadiene	ug/m3	ND	ND		25	
1,3-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dichlorobenzene	ug/m3	ND	ND		25	
2-Butanone (MEK)	ug/m3	3.2	3.0	7	25	
2-Hexanone	ug/m3	ND	ND		25	
2-Propanol	ug/m3	2.5	2.7	6	25	
4-Ethyltoluene	ug/m3	ND	ND		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	ND		25	
Acetone	ug/m3	9.1	9.0	.9	25	
Benzene	ug/m3	ND	ND		25	
Benzyl chloride	ug/m3	ND	ND		25	
Bromodichloromethane	ug/m3	ND	ND		25	
Bromoform	ug/m3	ND	ND		25	
Bromomethane	ug/m3	ND	ND		25	
Carbon disulfide	ug/m3	ND	ND		25	
Carbon tetrachloride	ug/m3	ND	ND		25	
Chlorobenzene	ug/m3	ND	ND		25	
Chloroethane	ug/m3	ND	ND		25	
Chloroform	ug/m3	ND	ND		25	
Chloromethane	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
cis-1,3-Dichloropropene	ug/m3	ND	ND		25	
Cyclohexane	ug/m3	ND	ND		25	
Dibromochloromethane	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	2.7	2.5	8	25	
Dichlorotetrafluoroethane	ug/m3	ND	ND		25	
Ethanol	ug/m3	2.6	2.6	2	25	
Ethyl acetate	ug/m3	ND	ND		25	
Ethylbenzene	ug/m3	ND	ND		25	
Hexachloro-1,3-butadiene	ug/m3	ND	ND		25	
m&p-Xylene	ug/m3	ND	ND		25	
Methyl-tert-butyl ether	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	ND	ND		25	
n-Heptane	ug/m3	1.1J	1.3J		25	
n-Hexane	ug/m3	ND	ND		25	
Naphthalene	ug/m3	ND	ND		25	
o-Xylene	ug/m3	ND	ND		25	
Propylene	ug/m3	ND	ND		25	
Styrene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	2.5	2.5	2	25	

QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10206911

SAMPLE DUPLICATE: 1300035

Parameter	Units	10207178001 Result	Dup Result	RPD	Max RPD	Qualifiers
Tetrahydrofuran	ug/m3	ND	ND		25	
Toluene	ug/m3	1.2J	1.1J		25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
trans-1,3-Dichloropropene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	4.8	4.3	10	25	
Trichlorofluoromethane	ug/m3	1.4J	1.3J		25	
Vinyl acetate	ug/m3	ND	ND		25	
Vinyl chloride	ug/m3	ND	ND		25	

QUALIFIERS

Project: CRC City of Rochester

Pace Project No.: 10206911

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.

PRL - Pace Reporting Limit.

RL - Reporting 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 TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 10206911001

[1] This result is reported from a serial dilution

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC City of Rochester

Pace Project No.: 10206911

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10206911001	DPE-Exhaust-0795	TO-15	AIR/15851		

Pace Analytical Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10206911001
Operator : CJR
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 02-OCT-2012 00:29

Client SDG: 100112.b
Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	2.607	1420	J
2.	Unknown	2.904	284000	J
3. 115-11-7	1-Propene, 2-methyl-	3.257	670	NJ
4.	Unknown	8.288	93.3	J
5.	Unknown	9.112	92.2	J
6.	Unknown	10.579	148	J
7.	Unknown	14.675	177	J
8.	Unknown	15.878	200	J
9.	Unknown	17.152	299	J
10.	Unknown	18.787	233	J

Pace Analytical Services

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\100112.b\27535.d
 Lab Smp Id: 10206911001
 Inj Date : 02-OCT-2012 00:29
 Operator : CJR
 Smp Info :
 Misc Info : 15851
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airD.i\100112.b\TO15_275-12.m
 Meth Date : 01-Oct-2012 13:51 creindl Quant Type: ISTD
 Cal Date : 01-OCT-2012 12:52 Cal File: 27511.d
 Als bottle: 35
 Dil Factor: 268.80000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: 10AIRGROUP

Inst ID: 10airD.i

Compound Sublist: all.sub

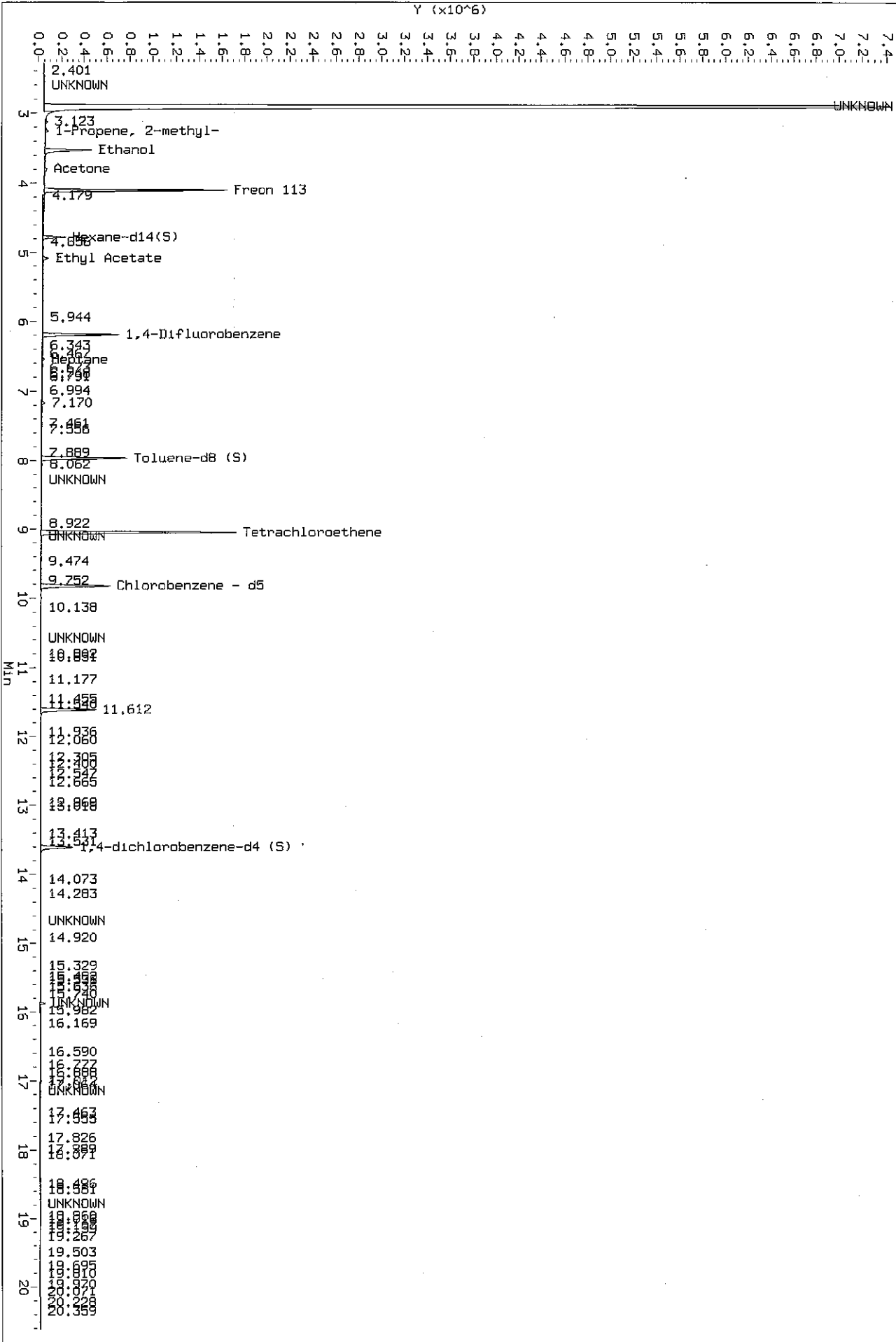
Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	268.800	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

COMPOUND	RT	AREA	AMOUNT
9 Ethanol	3.526	721362	32.746
\$ 48 Toluene-d8 (S)	7.968	1297316	9.963
54 Tetrachloroethene	9.050	3111661	23.654
* 55 Chlorobenzene - d5	9.827	1106541	10.000
\$ 70 1,4-dichlorobenzene-d4	13.606	607570	8.727

RT	AREA	CONCENTRATIONS			QUAL	QUANT		
		ON-COL(ppbv)	FINAL(ppbv)			LIBRARY	LIB ENTRY	CPND #
Unknown								
2.607	116752	5.29993704	1420	0		0	9	CAS #:
Unknown								
2.904	23244459	1055.17803	284000	0		0	9	CAS #:
1-Propene, 2-methyl-								
3.257	54921	2.49313699	670	80	NIST05.L	182	9	CAS #: 115-11-7

RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL(ppbv)	FINAL(ppbv)		LIBRARY	LIB ENTRY	
Unknown							
8.288	45203	0.34714065	93.3	0		0	48
Unknown							
9.112	45143	0.34316690	92.2	0		0	54
Unknown							
10.579	61077	0.55196024	148	0		0	55
Unknown							
14.675	45853	0.65863184	177	0		0	70
Unknown							
15.878	51783	0.74381997	200	0		0	70
Unknown							
17.152	77404	1.11184474	299	0		0	70
Unknown							
18.787	60396	0.86753103	233	0		0	70



CHAIN-OF-CUSTODY / Analytical Request Document

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

10206911



Page: 1 of 1

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

ITEM #	Section D Required Client Information		MATRIX CODE	SAMPLE TYPE	G-RAB C-COMP	COLLECTED				# OF CONTAINERS	PRESERVATIVES						Filtered (Y/N)	Requested Analyte	Pace Project Number Lab I.D.				
	SAMPLE ID	One Character per box. (A-Z, 0-9 / -)				SAMPLER CODE	COMPOSITE START		H ₂ SO ₄		HNO ₃	HCl	NaOH	Na ₂ O ₂	Methanol	Other				DATE	TIME	DATE	TIME
							DATE	TIME															
1	D P E - E X H A U S T - 0 7 9 5		A C				9/27/12	13:00	9/27/12	19:00								X					
2																							
3																							
4																							
5																							
6																							
7																							
8																							

Additional Comments:		RELINQUISHED BY / AFFILIATION		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS	
-				<i>Eric Gabrielson</i>		9/27/12		1640ab		Y/N	
										Y/N	
										Y/N	
										Y/N	
										Y/N	
										Y/N	
										Y/N	

SAMPLER NAME AND SIGNATURE		DATE SIGNED (MM/DD/YY)	
<i>Eric Gabrielson</i>		9/28/12	
PRINT NAME of SAMPLER:		DATE SIGNED (MM/DD/YY)	
SIGNATURE of SAMPLER:		DATE SIGNED (MM/DD/YY)	

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



Document Name:
Air Sample Condition Upon Receipt
Document No.:
F-MN-A-106-rev.05

Document Revised: 22Aug2012
Page 1 of 1
Issuing Authority:
Pace Minnesota Quality Office

Air Sample Condition
Upon Receipt

Client Name:

Landmark

Project #:

WO#: **10206911**



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

Tracking Number: _____

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No

Optional: Proj. Due Date: _____ Proj. Name: _____

Packing Material: Bubble Wrap Bubble Bags Foam None Other: _____

Temperature (TO17 and TO13 samples only): one
Temp should be above freezing to 6°C

Thermometer Used: B88A912167504 80512447

Date & Initials of Person Examining Contents: B 9.27.12

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 and/or 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 (<72 hr)?	<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>1 can IFC</u>		11.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>sample date on can is 9.26.12</u>

Samples Received: sample time on COC is impossible

Canisters		Flow Controllers		Stand Alone G	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
<u>DPE EX 101159</u>	<u>FC0083</u>				

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: _____ Date/Time: _____
Comments/Resolution: _____

Field Data Required? Yes No

Project Manager Review: [Signature] Date: 9/28/12

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 hold, incorrect preservative, out of temp, incorrect containers)

October 04, 2012

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

RE: Project: City of Rochester CRC
Pace Project No.: 10206933

Dear Mr. Skramstad:

Enclosed are the analytical results for sample(s) received by the laboratory on September 27, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted 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: City of Rochester CRC

Pace Project No.: 10206933

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

Colorado Certification #Pace

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: Pace

Florida/NELAP Certification #: E87605

Georgia Certification #: 959

Hawaii Certification #Pace

Idaho Certification #: MN00064

Illinois Certification #: 200011

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 York Certification #: 11647

North Carolina Certification #: 530

North Dakota Certification #: R-036

North Dakota Certification #: R-036A

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Oregon Certification #: MN300001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Tennessee Certification #: 02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Virginia/DCLS Certification #: 002521

Virginia/VELAP Certification #: 460163

Washington Certification #: C754

West Virginia Certification #: 382

Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

Page 2 of 16

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SAMPLE SUMMARY

Project: City of Rochester CRC
Pace Project No.: 10206933

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10206933001	AS - INFLUENT	Water	09/26/12 18:30	09/27/12 16:40
10206933002	AS - EFFLUENT	Water	09/26/12 18:33	09/27/12 16:40

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: City of Rochester CRC

Pace Project No.: 10206933

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10206933001	AS - INFLUENT	EPA 624	DJT	83
10206933002	AS - EFFLUENT	EPA 624	DJT	83

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: City of Rochester CRC

Pace Project No.: 10206933

Sample: AS - INFLUENT		Lab ID: 10206933001	Collected: 09/26/12 18:30	Received: 09/27/12 16:40	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		10/01/12 14:10	67-64-1	
Acrolein	ND	ug/L	10.0	1		10/01/12 14:10	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1		10/01/12 14:10	107-13-1	
Allyl chloride	ND	ug/L	4.0	1		10/01/12 14:10	107-05-1	
Benzene	ND	ug/L	1.0	1		10/01/12 14:10	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/01/12 14:10	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/01/12 14:10	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/01/12 14:10	75-27-4	
Bromoform	ND	ug/L	4.0	1		10/01/12 14:10	75-25-2	
Bromomethane	ND	ug/L	10.0	1		10/01/12 14:10	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		10/01/12 14:10	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		10/01/12 14:10	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		10/01/12 14:10	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/01/12 14:10	98-06-6	
Carbon disulfide	ND	ug/L	1.0	1		10/01/12 14:10	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/01/12 14:10	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/01/12 14:10	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/01/12 14:10	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		10/01/12 14:10	110-75-8	
Chloroform	ND	ug/L	1.0	1		10/01/12 14:10	67-66-3	
Chloromethane	ND	ug/L	4.0	1		10/01/12 14:10	74-87-3	
Chloroprene	ND	ug/L	1.0	1		10/01/12 14:10	126-99-8	
2-Chlorotoluene	ND	ug/L	1.0	1		10/01/12 14:10	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/01/12 14:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		10/01/12 14:10	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/01/12 14:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/01/12 14:10	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		10/01/12 14:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/01/12 14:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/01/12 14:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/01/12 14:10	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/01/12 14:10	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/01/12 14:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/01/12 14:10	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		10/01/12 14:10	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/01/12 14:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/01/12 14:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/01/12 14:10	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		10/01/12 14:10	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		10/01/12 14:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/01/12 14:10	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		10/01/12 14:10	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/01/12 14:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		10/01/12 14:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		10/01/12 14:10	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		10/01/12 14:10	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		10/01/12 14:10	100-41-4	

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REPORT OF LABORATORY ANALYSIS

Page 5 of 16

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ANALYTICAL RESULTS

Project: City of Rochester CRC

Pace Project No.: 10206933

Sample: AS - INFLUENT		Lab ID: 10206933001	Collected: 09/26/12 18:30	Received: 09/27/12 16:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV		Analytical Method: EPA 624						
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/01/12 14:10	87-68-3	
2-Hexanone	ND	ug/L	4.0	1		10/01/12 14:10	591-78-6	
Iodomethane	ND	ug/L	10.0	1		10/01/12 14:10	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/01/12 14:10	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		10/01/12 14:10	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		10/01/12 14:10	75-09-2	
2-Methylnaphthalene	ND	ug/L	5.0	1		10/01/12 14:10	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		10/01/12 14:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/01/12 14:10	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		10/01/12 14:10	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		10/01/12 14:10	103-65-1	
Styrene	ND	ug/L	1.0	1		10/01/12 14:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/01/12 14:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/01/12 14:10	79-34-5	
Tetrachloroethene	21.8	ug/L	1.0	1		10/01/12 14:10	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		10/01/12 14:10	109-99-9	
Toluene	ND	ug/L	1.0	1		10/01/12 14:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		10/01/12 14:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/01/12 14:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/01/12 14:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/01/12 14:10	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/01/12 14:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/01/12 14:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		10/01/12 14:10	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		10/01/12 14:10	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/01/12 14:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/01/12 14:10	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		10/01/12 14:10	108-05-4	
Vinyl chloride	ND	ug/L	0.40	1		10/01/12 14:10	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/01/12 14:10	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		10/01/12 14:10	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		10/01/12 14:10	95-47-6	
Surrogates								
Dibromofluoromethane (S)	101	%	75-125	1		10/01/12 14:10	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	75-125	1		10/01/12 14:10	17060-07-0	
Toluene-d8 (S)	104	%	75-125	1		10/01/12 14:10	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125	1		10/01/12 14:10	460-00-4	

ANALYTICAL RESULTS

Project: City of Rochester CRC

Pace Project No.: 10206933

Sample: AS - EFFLUENT		Lab ID: 10206933002	Collected: 09/26/12 18:33	Received: 09/27/12 16:40	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		10/01/12 13:46	67-64-1	
Acrolein	ND	ug/L	10.0	1		10/01/12 13:46	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1		10/01/12 13:46	107-13-1	
Allyl chloride	ND	ug/L	4.0	1		10/01/12 13:46	107-05-1	
Benzene	ND	ug/L	1.0	1		10/01/12 13:46	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/01/12 13:46	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/01/12 13:46	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/01/12 13:46	75-27-4	
Bromoform	ND	ug/L	4.0	1		10/01/12 13:46	75-25-2	
Bromomethane	ND	ug/L	10.0	1		10/01/12 13:46	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		10/01/12 13:46	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		10/01/12 13:46	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		10/01/12 13:46	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/01/12 13:46	98-06-6	
Carbon disulfide	ND	ug/L	1.0	1		10/01/12 13:46	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/01/12 13:46	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/01/12 13:46	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/01/12 13:46	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		10/01/12 13:46	110-75-8	
Chloroform	ND	ug/L	1.0	1		10/01/12 13:46	67-66-3	
Chloromethane	ND	ug/L	4.0	1		10/01/12 13:46	74-87-3	
Chloroprene	ND	ug/L	1.0	1		10/01/12 13:46	126-99-8	
2-Chlorotoluene	ND	ug/L	1.0	1		10/01/12 13:46	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/01/12 13:46	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		10/01/12 13:46	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/01/12 13:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/01/12 13:46	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		10/01/12 13:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/01/12 13:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/01/12 13:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/01/12 13:46	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/01/12 13:46	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/01/12 13:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/01/12 13:46	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		10/01/12 13:46	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/01/12 13:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/01/12 13:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/01/12 13:46	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		10/01/12 13:46	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		10/01/12 13:46	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/01/12 13:46	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		10/01/12 13:46	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/01/12 13:46	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		10/01/12 13:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		10/01/12 13:46	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		10/01/12 13:46	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		10/01/12 13:46	100-41-4	

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REPORT OF LABORATORY ANALYSIS

Page 7 of 16

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ANALYTICAL RESULTS

Project: City of Rochester CRC

Pace Project No.: 10206933

Sample: AS - EFFLUENT		Lab ID: 10206933002	Collected: 09/26/12 18:33	Received: 09/27/12 16:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV		Analytical Method: EPA 624						
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/01/12 13:46	87-68-3	
2-Hexanone	ND	ug/L	4.0	1		10/01/12 13:46	591-78-6	
Iodomethane	ND	ug/L	10.0	1		10/01/12 13:46	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/01/12 13:46	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		10/01/12 13:46	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		10/01/12 13:46	75-09-2	
2-Methylnaphthalene	ND	ug/L	5.0	1		10/01/12 13:46	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		10/01/12 13:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/01/12 13:46	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		10/01/12 13:46	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		10/01/12 13:46	103-65-1	
Styrene	ND	ug/L	1.0	1		10/01/12 13:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/01/12 13:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/01/12 13:46	79-34-5	
Tetrachloroethene	1.8	ug/L	1.0	1		10/01/12 13:46	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		10/01/12 13:46	109-99-9	
Toluene	ND	ug/L	1.0	1		10/01/12 13:46	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		10/01/12 13:46	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/01/12 13:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/01/12 13:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/01/12 13:46	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/01/12 13:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/01/12 13:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		10/01/12 13:46	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		10/01/12 13:46	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/01/12 13:46	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/01/12 13:46	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		10/01/12 13:46	108-05-4	
Vinyl chloride	ND	ug/L	0.40	1		10/01/12 13:46	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/01/12 13:46	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		10/01/12 13:46	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		10/01/12 13:46	95-47-6	
Surrogates								
Dibromofluoromethane (S)	100	%	75-125	1		10/01/12 13:46	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	75-125	1		10/01/12 13:46	17060-07-0	
Toluene-d8 (S)	104	%	75-125	1		10/01/12 13:46	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125	1		10/01/12 13:46	460-00-4	

QUALITY CONTROL DATA

Project: City of Rochester CRC

Pace Project No.: 10206933

QC Batch: MSV/21603 Analysis Method: EPA 624
 QC Batch Method: EPA 624 Analysis Description: 624 MSV
 Associated Lab Samples: 10206933001, 10206933002

METHOD BLANK: 1299251 Matrix: Water

Associated Lab Samples: 10206933001, 10206933002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	10/01/12 09:46	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/01/12 09:46	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/01/12 09:46	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/01/12 09:46	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	10/01/12 09:46	
1,1-Dichloroethane	ug/L	ND	1.0	10/01/12 09:46	
1,1-Dichloroethene	ug/L	ND	1.0	10/01/12 09:46	
1,1-Dichloropropene	ug/L	ND	1.0	10/01/12 09:46	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	10/01/12 09:46	
1,2,3-Trichloropropane	ug/L	ND	4.0	10/01/12 09:46	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	10/01/12 09:46	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	10/01/12 09:46	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	10/01/12 09:46	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/01/12 09:46	
1,2-Dichlorobenzene	ug/L	ND	1.0	10/01/12 09:46	
1,2-Dichloroethane	ug/L	ND	1.0	10/01/12 09:46	
1,2-Dichloroethene (Total)	ug/L	ND	2.0	10/01/12 09:46	
1,2-Dichloropropane	ug/L	ND	4.0	10/01/12 09:46	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	10/01/12 09:46	
1,3-Dichlorobenzene	ug/L	ND	1.0	10/01/12 09:46	
1,3-Dichloropropane	ug/L	ND	1.0	10/01/12 09:46	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/01/12 09:46	
2,2-Dichloropropane	ug/L	ND	4.0	10/01/12 09:46	
2-Butanone (MEK)	ug/L	ND	4.0	10/01/12 09:46	
2-Chloroethylvinyl ether	ug/L	ND	10.0	10/01/12 09:46	
2-Chlorotoluene	ug/L	ND	1.0	10/01/12 09:46	
2-Hexanone	ug/L	ND	4.0	10/01/12 09:46	
2-Methylnaphthalene	ug/L	ND	5.0	10/01/12 09:46	
4-Chlorotoluene	ug/L	ND	1.0	10/01/12 09:46	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	10/01/12 09:46	
Acetone	ug/L	ND	25.0	10/01/12 09:46	
Acrolein	ug/L	ND	10.0	10/01/12 09:46	
Acrylonitrile	ug/L	ND	10.0	10/01/12 09:46	
Allyl chloride	ug/L	ND	4.0	10/01/12 09:46	
Benzene	ug/L	ND	1.0	10/01/12 09:46	
Bromobenzene	ug/L	ND	1.0	10/01/12 09:46	
Bromochloromethane	ug/L	ND	1.0	10/01/12 09:46	
Bromodichloromethane	ug/L	ND	1.0	10/01/12 09:46	
Bromoform	ug/L	ND	4.0	10/01/12 09:46	
Bromomethane	ug/L	ND	10.0	10/01/12 09:46	
Carbon disulfide	ug/L	ND	1.0	10/01/12 09:46	
Carbon tetrachloride	ug/L	ND	1.0	10/01/12 09:46	
Chlorobenzene	ug/L	ND	1.0	10/01/12 09:46	

Date: 10/04/2012 02:07 PM

REPORT OF LABORATORY ANALYSIS

Page 9 of 16

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QUALITY CONTROL DATA

Project: City of Rochester CRC

Pace Project No.: 10206933

METHOD BLANK: 1299251

Matrix: Water

Associated Lab Samples: 10206933001, 10206933002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroethane	ug/L	ND	1.0	10/01/12 09:46	
Chloroform	ug/L	ND	1.0	10/01/12 09:46	
Chloromethane	ug/L	ND	4.0	10/01/12 09:46	
Chloroprene	ug/L	ND	1.0	10/01/12 09:46	
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/01/12 09:46	
cis-1,3-Dichloropropene	ug/L	ND	4.0	10/01/12 09:46	
Dibromochloromethane	ug/L	ND	1.0	10/01/12 09:46	
Dibromomethane	ug/L	ND	4.0	10/01/12 09:46	
Dichlorodifluoromethane	ug/L	ND	1.0	10/01/12 09:46	
Dichlorofluoromethane	ug/L	ND	1.0	10/01/12 09:46	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	10/01/12 09:46	
Ethylbenzene	ug/L	ND	1.0	10/01/12 09:46	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	10/01/12 09:46	
Iodomethane	ug/L	ND	10.0	10/01/12 09:46	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	10/01/12 09:46	
m&p-Xylene	ug/L	ND	2.0	10/01/12 09:46	
Methyl-tert-butyl ether	ug/L	ND	1.0	10/01/12 09:46	
Methylene Chloride	ug/L	ND	4.0	10/01/12 09:46	
n-Butylbenzene	ug/L	ND	1.0	10/01/12 09:46	
n-Propylbenzene	ug/L	ND	1.0	10/01/12 09:46	
Naphthalene	ug/L	ND	4.0	10/01/12 09:46	
o-Xylene	ug/L	ND	1.0	10/01/12 09:46	
p-Isopropyltoluene	ug/L	ND	1.0	10/01/12 09:46	
sec-Butylbenzene	ug/L	ND	1.0	10/01/12 09:46	
Styrene	ug/L	ND	1.0	10/01/12 09:46	
tert-Butylbenzene	ug/L	ND	1.0	10/01/12 09:46	
Tetrachloroethene	ug/L	ND	1.0	10/01/12 09:46	
Tetrahydrofuran	ug/L	ND	10.0	10/01/12 09:46	
Toluene	ug/L	ND	1.0	10/01/12 09:46	
trans-1,2-Dichloroethene	ug/L	ND	1.0	10/01/12 09:46	
trans-1,3-Dichloropropene	ug/L	ND	4.0	10/01/12 09:46	
Trichloroethene	ug/L	ND	1.0	10/01/12 09:46	
Trichlorofluoromethane	ug/L	ND	1.0	10/01/12 09:46	
Vinyl acetate	ug/L	ND	10.0	10/01/12 09:46	
Vinyl chloride	ug/L	ND	0.40	10/01/12 09:46	
Xylene (Total)	ug/L	ND	3.0	10/01/12 09:46	
1,2-Dichloroethane-d4 (S)	%	99	75-125	10/01/12 09:46	
4-Bromofluorobenzene (S)	%	103	75-125	10/01/12 09:46	
Dibromofluoromethane (S)	%	98	75-125	10/01/12 09:46	
Toluene-d8 (S)	%	103	75-125	10/01/12 09:46	

LABORATORY CONTROL SAMPLE: 1299252

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.6	108	75-125	

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REPORT OF LABORATORY ANALYSIS

Page 10 of 16

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QUALITY CONTROL DATA

Project: City of Rochester CRC

Pace Project No.: 10206933

LABORATORY CONTROL SAMPLE: 1299252

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	21.5	108	75-129	
1,1,2,2-Tetrachloroethane	ug/L	20	21.2	106	69-126	
1,1,2-Trichloroethane	ug/L	20	21.3	106	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	23.2	116	70-127	
1,1-Dichloroethane	ug/L	20	20.9	104	75-128	
1,1-Dichloroethene	ug/L	20	21.6	108	72-130	
1,1-Dichloropropene	ug/L	20	21.5	108	75-130	
1,2,3-Trichlorobenzene	ug/L	20	21.9	110	75-125	
1,2,3-Trichloropropane	ug/L	20	21.0	105	75-125	
1,2,4-Trichlorobenzene	ug/L	20	22.2	111	75-126	
1,2,4-Trimethylbenzene	ug/L	20	22.3	112	75-125	
1,2-Dibromo-3-chloropropane	ug/L	20	20.9	104	72-125	
1,2-Dibromoethane (EDB)	ug/L	20	20.3	102	75-125	
1,2-Dichlorobenzene	ug/L	20	21.6	108	75-125	
1,2-Dichloroethane	ug/L	20	20.4	102	75-125	
1,2-Dichloroethene (Total)	ug/L	40	43.0	107	75-125	
1,2-Dichloropropane	ug/L	20	20.0	100	75-125	
1,3,5-Trimethylbenzene	ug/L	20	22.3	111	75-125	
1,3-Dichlorobenzene	ug/L	20	21.9	110	75-125	
1,3-Dichloropropane	ug/L	20	20.5	102	75-125	
1,4-Dichlorobenzene	ug/L	20	21.9	109	75-125	
2,2-Dichloropropane	ug/L	20	22.1	111	75-133	
2-Butanone (MEK)	ug/L	20	18.6	93	62-132	
2-Chloroethylvinyl ether	ug/L	50	48.6	97	75-125	
2-Chlorotoluene	ug/L	20	22.1	111	74-126	
2-Hexanone	ug/L	20	19.2	96	74-125	
2-Methylnaphthalene	ug/L	10	10.7	107	63-126	
4-Chlorotoluene	ug/L	20	22.4	112	75-126	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.3	96	73-125	
Acetone	ug/L	50	47.5	95	35-150	
Acrolein	ug/L	200	179	89	62-143	
Acrylonitrile	ug/L	200	190	95	75-125	
Allyl chloride	ug/L	20	22.0	110	71-139	
Benzene	ug/L	20	20.5	102	74-126	
Bromobenzene	ug/L	20	21.5	107	75-125	
Bromochloromethane	ug/L	20	21.6	108	75-125	
Bromodichloromethane	ug/L	20	20.9	104	75-125	
Bromoform	ug/L	20	20.5	102	75-126	
Bromomethane	ug/L	20	15.0	75	59-146	
Carbon disulfide	ug/L	20	21.6	108	66-133	
Carbon tetrachloride	ug/L	20	22.2	111	72-133	
Chlorobenzene	ug/L	20	21.4	107	75-125	
Chloroethane	ug/L	20	22.3	112	73-138	
Chloroform	ug/L	20	20.5	103	75-125	
Chloromethane	ug/L	20	18.4	92	68-129	
Chloroprene	ug/L	20	21.7	108	68-133	
cis-1,2-Dichloroethene	ug/L	20	20.9	104	75-125	
cis-1,3-Dichloropropene	ug/L	20	20.8	104	75-125	

Date: 10/04/2012 02:07 PM

REPORT OF LABORATORY ANALYSIS

Page 11 of 16

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QUALITY CONTROL DATA

Project: City of Rochester CRC

Pace Project No.: 10206933

LABORATORY CONTROL SAMPLE: 1299252

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	20	21.4	107	75-125	
Dibromomethane	ug/L	20	21.3	106	75-125	
Dichlorodifluoromethane	ug/L	20	20.4	102	75-150	
Dichlorofluoromethane	ug/L	20	21.4	107	75-128	
Diethyl ether (Ethyl ether)	ug/L	20	20.2	101	75-125	
Ethylbenzene	ug/L	20	20.6	103	75-125	
Hexachloro-1,3-butadiene	ug/L	10	11.1	111	61-133	
Iodomethane	ug/L	20	18.4	92	55-149	
Isopropylbenzene (Cumene)	ug/L	20	21.7	108	75-125	
m&p-Xylene	ug/L	40	43.4	108	75-125	
Methyl-tert-butyl ether	ug/L	20	20.0	100	75-125	
Methylene Chloride	ug/L	20	20.7	104	75-125	
n-Butylbenzene	ug/L	20	22.9	114	72-130	
n-Propylbenzene	ug/L	20	22.7	113	74-129	
Naphthalene	ug/L	20	21.2	106	75-125	
o-Xylene	ug/L	20	21.6	108	75-125	
p-Isopropyltoluene	ug/L	20	22.7	113	73-130	
sec-Butylbenzene	ug/L	20	22.8	114	71-131	
Styrene	ug/L	20	21.5	107	75-125	
tert-Butylbenzene	ug/L	20	22.4	112	73-129	
Tetrachloroethene	ug/L	20	22.2	111	74-127	
Tetrahydrofuran	ug/L	200	184	92	71-127	
Toluene	ug/L	20	21.2	106	75-125	
trans-1,2-Dichloroethene	ug/L	20	21.2	106	74-127	
trans-1,3-Dichloropropene	ug/L	20	22.1	110	75-125	
Trichloroethene	ug/L	20	20.7	103	75-125	
Trichlorofluoromethane	ug/L	20	21.4	107	75-150	
Vinyl acetate	ug/L	20	19.6	98	75-128	
Vinyl chloride	ug/L	20	21.4	107	75-132	
Xylene (Total)	ug/L	60	65.0	108	75-125	
1,2-Dichloroethane-d4 (S)	%			104	75-125	
4-Bromofluorobenzene (S)	%			101	75-125	
Dibromofluoromethane (S)	%			100	75-125	
Toluene-d8 (S)	%			104	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1299253 1299254

Parameter	Units	10207064005		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	% Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	22.2	22.2	111	111	75-126	.02	30		
1,1,1-Trichloroethane	ug/L	ND	20	20	23.3	22.5	116	113	75-141	3	30		
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	21.9	21.0	109	105	68-129	4	30		
1,1,2-Trichloroethane	ug/L	ND	20	20	22.1	21.6	110	108	75-125	2	30		
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	20	27.8	26.7	139	134	75-150	4	30		
1,1-Dichloroethane	ug/L	ND	20	20	22.1	21.2	110	106	75-139	4	30		
1,1-Dichloroethene	ug/L	ND	20	20	24.3	23.6	122	118	75-147	3	30		
1,1-Dichloropropene	ug/L	ND	20	20	24.0	23.3	120	116	75-150	3	30		

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REPORT OF LABORATORY ANALYSIS

Page 12 of 16

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QUALITY CONTROL DATA

Project: City of Rochester CRC

Pace Project No.: 10206933

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1299253 1299254											
Parameter	Units	10207064005 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	22.0	21.7	110	109	75-125	1	30
1,2,3-Trichloropropane	ug/L	ND	20	20	21.7	20.8	108	104	71-125	4	30
1,2,4-Trichlorobenzene	ug/L	ND	20	20	22.9	22.2	114	111	75-127	3	30
1,2,4-Trimethylbenzene	ug/L	ND	20	20	23.0	22.5	115	112	74-133	2	30
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	21.0	20.3	105	101	69-125	3	30
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.3	20.7	107	103	75-125	3	30
1,2-Dichlorobenzene	ug/L	ND	20	20	22.2	21.8	111	109	75-125	2	30
1,2-Dichloroethane	ug/L	ND	20	20	21.0	20.3	105	101	75-130	4	30
1,2-Dichloroethene (Total)	ug/L	6.9	40	40	52.3	50.8	114	110	70-130	3	30
1,2-Dichloropropane	ug/L	ND	20	20	21.4	20.3	107	102	75-129	5	30
1,3,5-Trimethylbenzene	ug/L	ND	20	20	23.0	22.6	115	113	72-135	2	30
1,3-Dichlorobenzene	ug/L	ND	20	20	22.7	22.2	113	111	75-125	2	30
1,3-Dichloropropane	ug/L	ND	20	20	21.3	20.7	107	104	75-125	3	30
1,4-Dichlorobenzene	ug/L	ND	20	20	22.5	21.9	113	110	75-125	3	30
2,2-Dichloropropane	ug/L	ND	20	20	25.0	23.6	125	118	75-150	6	30
2-Butanone (MEK)	ug/L	ND	20	20	19.0	18.3	95	92	56-126	3	30
2-Chloroethylvinyl ether	ug/L	ND	50	50	8.5J	ND	17	0	30-125		30 M1
2-Chlorotoluene	ug/L	ND	20	20	22.9	22.4	114	112	75-130	2	30
2-Hexanone	ug/L	ND	20	20	19.8	19.6	99	98	68-125	.7	30
2-Methylnaphthalene	ug/L	ND	10	10	10.9	10.8	109	108	60-130	1	30
4-Chlorotoluene	ug/L	ND	20	20	23.2	22.8	116	114	75-127	2	30
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	19.7	19.6	99	98	69-128	.5	30
Acetone	ug/L	ND	50	50	51.5	48.4	103	97	32-129	6	30
Acrolein	ug/L	ND	200	200	190	191	95	96	44-150	.8	30
Acrylonitrile	ug/L	ND	200	200	194	189	97	95	70-130	3	30
Allyl chloride	ug/L	ND	20	20	24.2	23.2	121	116	61-150	4	30
Benzene	ug/L	ND	20	20	21.7	21.0	109	105	75-135	3	30
Bromobenzene	ug/L	ND	20	20	22.5	21.7	112	108	75-125	4	30
Bromochloromethane	ug/L	ND	20	20	22.2	21.5	111	108	75-128	3	30
Bromodichloromethane	ug/L	ND	20	20	21.5	21.1	108	106	75-127	2	30
Bromoform	ug/L	ND	20	20	21.7	21.0	109	105	76-125	4	30
Bromomethane	ug/L	ND	20	20	17.2	18.5	86	92	64-150	7	30
Carbon disulfide	ug/L	ND	20	20	24.5	23.4	123	117	51-150	5	30
Carbon tetrachloride	ug/L	ND	20	20	24.6	23.9	123	119	75-148	3	30
Chlorobenzene	ug/L	ND	20	20	22.3	21.8	111	109	75-125	2	30
Chloroethane	ug/L	ND	20	20	24.2	25.1	121	125	75-146	4	30
Chloroform	ug/L	ND	20	20	21.6	20.9	108	105	75-131	3	30
Chloromethane	ug/L	ND	20	20	19.8	20.1	99	100	73-141	1	30
Chloroprene	ug/L	ND	20	20	24.0	23.3	120	116	63-150	3	30
cis-1,2-Dichloroethene	ug/L	6.9	20	20	29.1	28.3	111	107	75-136	3	30
cis-1,3-Dichloropropene	ug/L	ND	20	20	21.5	20.6	107	103	75-130	4	30
Dibromochloromethane	ug/L	ND	20	20	22.5	21.7	112	109	75-125	3	30
Dibromomethane	ug/L	ND	20	20	21.5	21.3	108	106	75-125	1	30
Dichlorodifluoromethane	ug/L	ND	20	20	24.4	24.8	122	124	75-150	2	30
Dichlorofluoromethane	ug/L	ND	20	20	23.4	22.3	117	111	75-140	5	30
Diethyl ether (Ethyl ether)	ug/L	ND	20	20	21.2	20.3	106	102	75-129	4	30
Ethylbenzene	ug/L	ND	20	20	21.9	21.3	110	106	75-129	3	30

QUALITY CONTROL DATA

Project: City of Rochester CRC

Pace Project No.: 10206933

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1299253 1299254												
Parameter	Units	10207064005 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
			Spike Conc.	MSD Conc.	MS Result	MSD Result						
Hexachloro-1,3-butadiene	ug/L	ND	10	10	11.7	11.5	117	115	72-139	2	30	
Iodomethane	ug/L	ND	20	20	19.7	19.2	99	96	64-150	3	30	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	23.3	22.6	116	113	75-131	3	30	
m&p-Xylene	ug/L	ND	40	40	45.3	44.5	113	111	75-129	2	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	20.7	20.0	103	100	75-131	3	30	
Methylene Chloride	ug/L	ND	20	20	21.9	21.1	109	105	74-125	4	30	
n-Butylbenzene	ug/L	ND	20	20	23.8	23.7	119	118	75-138	.4	30	
n-Propylbenzene	ug/L	ND	20	20	23.8	23.4	119	117	75-134	2	30	
Naphthalene	ug/L	ND	20	20	21.7	21.2	108	106	75-125	2	30	
o-Xylene	ug/L	ND	20	20	22.7	22.0	114	110	75-128	3	30	
p-Isopropyltoluene	ug/L	ND	20	20	23.5	23.3	118	116	75-136	1	30	
sec-Butylbenzene	ug/L	ND	20	20	23.8	23.5	119	118	75-135	1	30	
Styrene	ug/L	ND	20	20	22.3	21.8	112	109	59-144	2	30	
tert-Butylbenzene	ug/L	ND	20	20	23.4	23.0	117	115	75-133	2	30	
Tetrachloroethene	ug/L	ND	20	20	24.1	23.2	120	116	75-136	4	30	
Tetrahydrofuran	ug/L	ND	200	200	188	185	94	93	64-134	1	30	
Toluene	ug/L	ND	20	20	22.5	21.8	113	109	75-127	3	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	24.0	23.1	119	114	75-142	4	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	23.2	22.4	116	112	74-129	3	30	
Trichloroethene	ug/L	6.1	20	20	28.4	27.6	111	108	75-136	3	30	
Trichlorofluoromethane	ug/L	ND	20	20	25.9	26.7	129	133	75-150	3	30	
Vinyl acetate	ug/L	ND	20	20	20.3	19.7	101	99	58-145	3	30	
Vinyl chloride	ug/L	ND	20	20	24.1	24.5	120	122	75-150	2	30	
Xylene (Total)	ug/L	ND	60	60	68.1	66.4	113	111	75-128	2	30	
1,2-Dichloroethane-d4 (S)	%						105	104	75-125			
4-Bromofluorobenzene (S)	%						102	101	75-125			
Dibromofluoromethane (S)	%						102	100	75-125			
Toluene-d8 (S)	%						104	104	75-125			

QUALIFIERS

Project: City of Rochester CRC

Pace Project No.: 10206933

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.

PRL - Pace Reporting Limit.

RL - Reporting 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 TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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: City of Rochester CRC

Pace Project No.: 10206933

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10206933001	AS - INFLUENT	EPA 624	MSV/21603		
10206933002	AS - EFFLUENT	EPA 624	MSV/21603		



CHAIN-OF-CUSTODY / Analytical Request Document

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

11/23

0206933

Section A Required Client Information: Company: Landmark Environmental Address: 2042 W. 98th Street Bloomington, MN 55431 Email To: jskramstad@landmarkenv.com Phone: 952-887-9601, ext 205 Fax: 952-887-9605 Requested Due Date/TAT: Normal		Section B Required Project Information: Report To: Jason Skramstad Copy To: Eric Gabrielson Purchase Order No.: Project Name: City of Rochester Project Number: CRC		Section C Invoice Information: Attention: Jason Skramstad Company Name: Landmark Environmental, LLC Address: 2042 W. 98th St., Bloomington, MN 55431 Pace Quote Reference: Pace Project Manager: Carolynne Trout Pace Profile #:		REGULATORY AGENCY <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER SITE <input type="checkbox"/> SA <input type="checkbox"/> IN <input type="checkbox"/> P LOCATION <input type="checkbox"/> CH <input type="checkbox"/> SC <input type="checkbox"/> MI <input type="checkbox"/> OTHER		Page: 1 of 1																
#	ITEM	A	S	-	I	n	f	i	u	e	n	t	Matrix Code	Sample Type	Grab C-Comp	COLLECTED		# OF CONTAINERS	Preservatives	Filtered (Y/N)	Requested	Ani	Pace Project Number	Lab ID
																DATE	TIME							
1		A	S	-	I	n	f	i	u	e	n	t	W	G		1/27/12	18:30	3	Unpreserved	X			101	
2		A	S	-	E	f	f	i	u	e	n	t	W	G		1/27/12	18:33	3	Unpreserved	X			102	
3																								
4																								
5																								
6																								
7																								
8																								

Additional Comments:
 Colkdade 9/27/12
 Gabrielson 9/28

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Eric Gabrielson	9/27/12	1640	Eric Gabrielson	9/28/12	1640	Received on ice Y/N Custody Sealed Cooler Y/N Samples Intact Y/N


SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Eric Gabrielson
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed (MM/DD/YY): 9/28/12

Sample Condition Upon Receipt

Client Name: Landmark

Project #:

WO# : 10206933



10206933

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

Tracking Number: _____

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: 888A912167504 80512447 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature: 4.3 Biological Tissue Frozen? Yes No Date and Initials of Person Examining Contents: 9/27/12 AK
 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 and/or 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 (<72 hr)?	<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 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 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>		
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>12)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Sample #
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed: <u>AK</u> Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15. <u>2 TBs for 3 projects</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):		

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: Eric Sabakelben Date/Time: 9/27 email
 Comments/Resolution: coll. data is 9/27 9/26

Project Manager Review: CPM Date: 9/28/12
 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)

August 31, 2012

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

RE: Project: CITY OF ROCHESTER CRC
Pace Project No.: 10203353

Dear Mr. Skramstad:

Enclosed are the analytical results for sample(s) received by the laboratory on August 23, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted 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: CITY OF ROCHESTER CRC

Pace Project No.: 10203353

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

Virginia/DCLS Certification #: 002521

Virginia/VELAP Certification #: 460163

Washington Certification #: C754

Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

Page 2 of 20

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SAMPLE SUMMARY

Project: CITY OF ROCHESTER CRC

Pace Project No.: 10203353

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10203353001	AS - INFLUENT	Water	08/23/12 09:00	08/23/12 15:57
10203353002	AS - EFFLUENT	Water	08/23/12 09:05	08/23/12 15:57
10203353003	TRIP BLANK	Water	08/23/12 00:00	08/23/12 15:57

REPORT OF LABORATORY ANALYSIS

Page 3 of 20

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SAMPLE ANALYTE COUNT

Project: CITY OF ROCHESTER CRC

Pace Project No.: 10203353

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10203353001	AS - INFLUENT	EPA 624	DJT	83
10203353002	AS - EFFLUENT	EPA 624	DJT	83
10203353003	TRIP BLANK	EPA 624	DJT	83

REPORT OF LABORATORY ANALYSIS

Page 4 of 20

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ANALYTICAL RESULTS

Project: CITY OF ROCHESTER CRC

Pace Project No.: 10203353

Sample: AS - INFLUENT		Lab ID: 10203353001	Collected: 08/23/12 09:00	Received: 08/23/12 15:57	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		08/27/12 23:16	67-64-1	
Acrolein	ND	ug/L	10.0	1		08/27/12 23:16	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1		08/27/12 23:16	107-13-1	
Allyl chloride	ND	ug/L	4.0	1		08/27/12 23:16	107-05-1	
Benzene	ND	ug/L	1.0	1		08/27/12 23:16	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		08/27/12 23:16	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		08/27/12 23:16	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		08/27/12 23:16	75-27-4	
Bromoform	ND	ug/L	4.0	1		08/27/12 23:16	75-25-2	
Bromomethane	ND	ug/L	4.0	1		08/27/12 23:16	74-83-9	CL
2-Butanone (MEK)	ND	ug/L	4.0	1		08/27/12 23:16	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		08/27/12 23:16	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		08/27/12 23:16	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		08/27/12 23:16	98-06-6	
Carbon disulfide	ND	ug/L	1.0	1		08/27/12 23:16	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		08/27/12 23:16	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		08/27/12 23:16	108-90-7	
Chloroethane	ND	ug/L	1.0	1		08/27/12 23:16	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		08/27/12 23:16	110-75-8	M1
Chloroform	ND	ug/L	1.0	1		08/27/12 23:16	67-66-3	
Chloromethane	ND	ug/L	4.0	1		08/27/12 23:16	74-87-3	L2,M0
Chloroprene	ND	ug/L	1.0	1		08/27/12 23:16	126-99-8	
2-Chlorotoluene	ND	ug/L	1.0	1		08/27/12 23:16	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		08/27/12 23:16	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		08/27/12 23:16	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		08/27/12 23:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		08/27/12 23:16	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		08/27/12 23:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		08/27/12 23:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		08/27/12 23:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		08/27/12 23:16	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		08/27/12 23:16	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		08/27/12 23:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		08/27/12 23:16	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		08/27/12 23:16	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		08/27/12 23:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		08/27/12 23:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		08/27/12 23:16	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		08/27/12 23:16	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		08/27/12 23:16	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		08/27/12 23:16	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		08/27/12 23:16	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		08/27/12 23:16	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		08/27/12 23:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		08/27/12 23:16	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		08/27/12 23:16	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		08/27/12 23:16	100-41-4	

Date: 08/31/2012 08:45 AM

REPORT OF LABORATORY ANALYSIS

Page 5 of 20

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ANALYTICAL RESULTS

Project: CITY OF ROCHESTER CRC

Pace Project No.: 10203353

Sample: AS - INFLUENT		Lab ID: 10203353001	Collected: 08/23/12 09:00	Received: 08/23/12 15:57	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV		Analytical Method: EPA 624						
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		08/27/12 23:16	87-68-3	
2-Hexanone	ND	ug/L	4.0	1		08/27/12 23:16	591-78-6	
Iodomethane	ND	ug/L	4.0	1		08/27/12 23:16	74-88-4	CL
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		08/27/12 23:16	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		08/27/12 23:16	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		08/27/12 23:16	75-09-2	
2-Methylnaphthalene	ND	ug/L	5.0	1		08/27/12 23:16	91-57-6	M1
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		08/27/12 23:16	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		08/27/12 23:16	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		08/27/12 23:16	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		08/27/12 23:16	103-65-1	
Styrene	ND	ug/L	1.0	1		08/27/12 23:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		08/27/12 23:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		08/27/12 23:16	79-34-5	
Tetrachloroethene	45.5	ug/L	1.0	1		08/27/12 23:16	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		08/27/12 23:16	109-99-9	
Toluene	ND	ug/L	1.0	1		08/27/12 23:16	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		08/27/12 23:16	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		08/27/12 23:16	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		08/27/12 23:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		08/27/12 23:16	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		08/27/12 23:16	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		08/27/12 23:16	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		08/27/12 23:16	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		08/27/12 23:16	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		08/27/12 23:16	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		08/27/12 23:16	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		08/27/12 23:16	108-05-4	
Vinyl chloride	ND	ug/L	0.40	1		08/27/12 23:16	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		08/27/12 23:16	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		08/27/12 23:16	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		08/27/12 23:16	95-47-6	
Surrogates								
Dibromofluoromethane (S)	99 %		75-125	1		08/27/12 23:16	1868-53-7	
1,2-Dichloroethane-d4 (S)	98 %		75-125	1		08/27/12 23:16	17060-07-0	
Toluene-d8 (S)	99 %		75-125	1		08/27/12 23:16	2037-26-5	
4-Bromofluorobenzene (S)	96 %		75-125	1		08/27/12 23:16	460-00-4	

ANALYTICAL RESULTS

Project: CITY OF ROCHESTER CRC

Pace Project No.: 10203353

Sample: AS - EFFLUENT	Lab ID: 10203353002	Collected: 08/23/12 09:05	Received: 08/23/12 15:57	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		08/27/12 23:40	67-64-1	
Acrolein	ND ug/L		10.0	1		08/27/12 23:40	107-02-8	
Acrylonitrile	ND ug/L		10.0	1		08/27/12 23:40	107-13-1	
Allyl chloride	ND ug/L		4.0	1		08/27/12 23:40	107-05-1	
Benzene	ND ug/L		1.0	1		08/27/12 23:40	71-43-2	
Bromobenzene	ND ug/L		1.0	1		08/27/12 23:40	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		08/27/12 23:40	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		08/27/12 23:40	75-27-4	
Bromoform	ND ug/L		4.0	1		08/27/12 23:40	75-25-2	
Bromomethane	ND ug/L		4.0	1		08/27/12 23:40	74-83-9	CL
2-Butanone (MEK)	ND ug/L		4.0	1		08/27/12 23:40	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		08/27/12 23:40	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		08/27/12 23:40	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		08/27/12 23:40	98-06-6	
Carbon disulfide	ND ug/L		1.0	1		08/27/12 23:40	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		08/27/12 23:40	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		08/27/12 23:40	108-90-7	
Chloroethane	ND ug/L		1.0	1		08/27/12 23:40	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		10.0	1		08/27/12 23:40	110-75-8	
Chloroform	ND ug/L		1.0	1		08/27/12 23:40	67-66-3	
Chloromethane	ND ug/L		4.0	1		08/27/12 23:40	74-87-3	L2
Chloroprene	ND ug/L		1.0	1		08/27/12 23:40	126-99-8	
2-Chlorotoluene	ND ug/L		1.0	1		08/27/12 23:40	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		08/27/12 23:40	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	1		08/27/12 23:40	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		08/27/12 23:40	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		08/27/12 23:40	106-93-4	
Dibromomethane	ND ug/L		4.0	1		08/27/12 23:40	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		08/27/12 23:40	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		08/27/12 23:40	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		08/27/12 23:40	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		08/27/12 23:40	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		08/27/12 23:40	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		08/27/12 23:40	107-06-2	
1,2-Dichloroethene (Total)	ND ug/L		2.0	1		08/27/12 23:40	540-59-0	
1,1-Dichloroethene	ND ug/L		1.0	1		08/27/12 23:40	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		08/27/12 23:40	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		08/27/12 23:40	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	1		08/27/12 23:40	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	1		08/27/12 23:40	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		08/27/12 23:40	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	1		08/27/12 23:40	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		08/27/12 23:40	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	1		08/27/12 23:40	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	1		08/27/12 23:40	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	1		08/27/12 23:40	60-29-7	
Ethylbenzene	ND ug/L		1.0	1		08/27/12 23:40	100-41-4	

Date: 08/31/2012 08:45 AM

REPORT OF LABORATORY ANALYSIS

Page 7 of 20

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ANALYTICAL RESULTS

Project: CITY OF ROCHESTER CRC

Pace Project No.: 10203353

Sample: AS - EFFLUENT		Lab ID: 10203353002	Collected: 08/23/12 09:05	Received: 08/23/12 15:57	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
624 MSV		Analytical Method: EPA 624							
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		08/27/12 23:40	87-68-3		
2-Hexanone	ND ug/L		4.0	1		08/27/12 23:40	591-78-6		
Iodomethane	ND ug/L		4.0	1		08/27/12 23:40	74-88-4	CL	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		08/27/12 23:40	98-82-8		
p-Isopropyltoluene	ND ug/L		1.0	1		08/27/12 23:40	99-87-6		
Methylene Chloride	ND ug/L		4.0	1		08/27/12 23:40	75-09-2		
2-Methylnaphthalene	ND ug/L		5.0	1		08/27/12 23:40	91-57-6		
4-Methyl-2-pentanone (MIBK)	ND ug/L		4.0	1		08/27/12 23:40	108-10-1		
Methyl-tert-butyl ether	ND ug/L		1.0	1		08/27/12 23:40	1634-04-4		
Naphthalene	ND ug/L		4.0	1		08/27/12 23:40	91-20-3		
n-Propylbenzene	ND ug/L		1.0	1		08/27/12 23:40	103-65-1		
Styrene	ND ug/L		1.0	1		08/27/12 23:40	100-42-5		
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		08/27/12 23:40	630-20-6		
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		08/27/12 23:40	79-34-5		
Tetrachloroethene	ND ug/L		1.0	1		08/27/12 23:40	127-18-4		
Tetrahydrofuran	ND ug/L		10.0	1		08/27/12 23:40	109-99-9		
Toluene	ND ug/L		1.0	1		08/27/12 23:40	108-88-3		
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		08/27/12 23:40	87-61-6		
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		08/27/12 23:40	120-82-1		
1,1,1-Trichloroethane	ND ug/L		1.0	1		08/27/12 23:40	71-55-6		
1,1,2-Trichloroethane	ND ug/L		1.0	1		08/27/12 23:40	79-00-5		
Trichloroethene	ND ug/L		1.0	1		08/27/12 23:40	79-01-6		
Trichlorofluoromethane	ND ug/L		1.0	1		08/27/12 23:40	75-69-4		
1,2,3-Trichloropropane	ND ug/L		4.0	1		08/27/12 23:40	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	1		08/27/12 23:40	76-13-1		
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		08/27/12 23:40	95-63-6		
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		08/27/12 23:40	108-67-8		
Vinyl acetate	ND ug/L		10.0	1		08/27/12 23:40	108-05-4		
Vinyl chloride	ND ug/L		0.40	1		08/27/12 23:40	75-01-4		
Xylene (Total)	ND ug/L		3.0	1		08/27/12 23:40	1330-20-7		
m&p-Xylene	ND ug/L		2.0	1		08/27/12 23:40	179601-23-1		
o-Xylene	ND ug/L		1.0	1		08/27/12 23:40	95-47-6		
Surrogates									
Dibromofluoromethane (S)	97 %		75-125	1		08/27/12 23:40	1868-53-7		
1,2-Dichloroethane-d4 (S)	96 %		75-125	1		08/27/12 23:40	17060-07-0		
Toluene-d8 (S)	99 %		75-125	1		08/27/12 23:40	2037-26-5		
4-Bromofluorobenzene (S)	96 %		75-125	1		08/27/12 23:40	460-00-4		

ANALYTICAL RESULTS

Project: CITY OF ROCHESTER CRC

Pace Project No.: 10203353

Sample: TRIP BLANK	Lab ID: 10203353003	Collected: 08/23/12 00:00	Received: 08/23/12 15:57	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		08/27/12 22:27	67-64-1	
Acrolein	ND ug/L		10.0	1		08/27/12 22:27	107-02-8	
Acrylonitrile	ND ug/L		10.0	1		08/27/12 22:27	107-13-1	
Allyl chloride	ND ug/L		4.0	1		08/27/12 22:27	107-05-1	
Benzene	ND ug/L		1.0	1		08/27/12 22:27	71-43-2	
Bromobenzene	ND ug/L		1.0	1		08/27/12 22:27	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		08/27/12 22:27	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		08/27/12 22:27	75-27-4	
Bromoform	ND ug/L		4.0	1		08/27/12 22:27	75-25-2	
Bromomethane	ND ug/L		4.0	1		08/27/12 22:27	74-83-9	CL
2-Butanone (MEK)	ND ug/L		4.0	1		08/27/12 22:27	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		08/27/12 22:27	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		08/27/12 22:27	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		08/27/12 22:27	98-06-6	
Carbon disulfide	ND ug/L		1.0	1		08/27/12 22:27	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		08/27/12 22:27	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		08/27/12 22:27	108-90-7	
Chloroethane	ND ug/L		1.0	1		08/27/12 22:27	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		10.0	1		08/27/12 22:27	110-75-8	
Chloroform	ND ug/L		1.0	1		08/27/12 22:27	67-66-3	
Chloromethane	ND ug/L		4.0	1		08/27/12 22:27	74-87-3	L2
Chloroprene	ND ug/L		1.0	1		08/27/12 22:27	126-99-8	
2-Chlorotoluene	ND ug/L		1.0	1		08/27/12 22:27	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		08/27/12 22:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	1		08/27/12 22:27	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		08/27/12 22:27	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		08/27/12 22:27	106-93-4	
Dibromomethane	ND ug/L		4.0	1		08/27/12 22:27	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		08/27/12 22:27	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		08/27/12 22:27	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		08/27/12 22:27	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		08/27/12 22:27	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		08/27/12 22:27	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		08/27/12 22:27	107-06-2	
1,2-Dichloroethene (Total)	ND ug/L		2.0	1		08/27/12 22:27	540-59-0	
1,1-Dichloroethene	ND ug/L		1.0	1		08/27/12 22:27	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		08/27/12 22:27	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		08/27/12 22:27	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	1		08/27/12 22:27	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	1		08/27/12 22:27	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		08/27/12 22:27	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	1		08/27/12 22:27	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		08/27/12 22:27	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	1		08/27/12 22:27	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	1		08/27/12 22:27	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	1		08/27/12 22:27	60-29-7	
Ethylbenzene	ND ug/L		1.0	1		08/27/12 22:27	100-41-4	

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REPORT OF LABORATORY ANALYSIS

Page 9 of 20

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ANALYTICAL RESULTS

Project: CITY OF ROCHESTER CRC

Pace Project No.: 10203353

Sample: TRIP BLANK		Lab ID: 10203353003	Collected: 08/23/12 00:00	Received: 08/23/12 15:57	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
624 MSV		Analytical Method: EPA 624							
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		08/27/12 22:27	87-68-3		
2-Hexanone	ND ug/L		4.0	1		08/27/12 22:27	591-78-6		
Iodomethane	ND ug/L		4.0	1		08/27/12 22:27	74-88-4	CL	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		08/27/12 22:27	98-82-8		
p-Isopropyltoluene	ND ug/L		1.0	1		08/27/12 22:27	99-87-6		
Methylene Chloride	ND ug/L		4.0	1		08/27/12 22:27	75-09-2		
2-Methylnaphthalene	ND ug/L		5.0	1		08/27/12 22:27	91-57-6		
4-Methyl-2-pentanone (MIBK)	ND ug/L		4.0	1		08/27/12 22:27	108-10-1		
Methyl-tert-butyl ether	ND ug/L		1.0	1		08/27/12 22:27	1634-04-4		
Naphthalene	ND ug/L		4.0	1		08/27/12 22:27	91-20-3		
n-Propylbenzene	ND ug/L		1.0	1		08/27/12 22:27	103-65-1		
Styrene	ND ug/L		1.0	1		08/27/12 22:27	100-42-5		
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		08/27/12 22:27	630-20-6		
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		08/27/12 22:27	79-34-5		
Tetrachloroethene	ND ug/L		1.0	1		08/27/12 22:27	127-18-4		
Tetrahydrofuran	ND ug/L		10.0	1		08/27/12 22:27	109-99-9		
Toluene	ND ug/L		1.0	1		08/27/12 22:27	108-88-3		
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		08/27/12 22:27	87-61-6		
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		08/27/12 22:27	120-82-1		
1,1,1-Trichloroethane	ND ug/L		1.0	1		08/27/12 22:27	71-55-6		
1,1,2-Trichloroethane	ND ug/L		1.0	1		08/27/12 22:27	79-00-5		
Trichloroethene	ND ug/L		1.0	1		08/27/12 22:27	79-01-6		
Trichlorofluoromethane	ND ug/L		1.0	1		08/27/12 22:27	75-69-4		
1,2,3-Trichloropropane	ND ug/L		4.0	1		08/27/12 22:27	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	1		08/27/12 22:27	76-13-1		
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		08/27/12 22:27	95-63-6		
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		08/27/12 22:27	108-67-8		
Vinyl acetate	ND ug/L		10.0	1		08/27/12 22:27	108-05-4		
Vinyl chloride	ND ug/L		0.40	1		08/27/12 22:27	75-01-4		
Xylene (Total)	ND ug/L		3.0	1		08/27/12 22:27	1330-20-7		
m&p-Xylene	ND ug/L		2.0	1		08/27/12 22:27	179601-23-1		
o-Xylene	ND ug/L		1.0	1		08/27/12 22:27	95-47-6		
Surrogates									
Dibromofluoromethane (S)	97 %		75-125	1		08/27/12 22:27	1868-53-7		
1,2-Dichloroethane-d4 (S)	95 %		75-125	1		08/27/12 22:27	17060-07-0		
Toluene-d8 (S)	99 %		75-125	1		08/27/12 22:27	2037-26-5		
4-Bromofluorobenzene (S)	95 %		75-125	1		08/27/12 22:27	460-00-4		

QUALITY CONTROL DATA

Project: CITY OF ROCHESTER CRC

Pace Project No.: 10203353

QC Batch: MSV/21231 Analysis Method: EPA 624
QC Batch Method: EPA 624 Analysis Description: 624 MSV
Associated Lab Samples: 10203353001, 10203353002, 10203353003

METHOD BLANK: 1275471 Matrix: Water

Associated Lab Samples: 10203353001, 10203353002, 10203353003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	08/27/12 22:03	
1,1,1-Trichloroethane	ug/L	ND	1.0	08/27/12 22:03	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	08/27/12 22:03	
1,1,2-Trichloroethane	ug/L	ND	1.0	08/27/12 22:03	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	08/27/12 22:03	
1,1-Dichloroethane	ug/L	ND	1.0	08/27/12 22:03	
1,1-Dichloroethene	ug/L	ND	1.0	08/27/12 22:03	
1,1-Dichloropropene	ug/L	ND	1.0	08/27/12 22:03	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	08/27/12 22:03	
1,2,3-Trichloropropane	ug/L	ND	4.0	08/27/12 22:03	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	08/27/12 22:03	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	08/27/12 22:03	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	08/27/12 22:03	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	08/27/12 22:03	
1,2-Dichlorobenzene	ug/L	ND	1.0	08/27/12 22:03	
1,2-Dichloroethane	ug/L	ND	1.0	08/27/12 22:03	
1,2-Dichloroethene (Total)	ug/L	ND	2.0	08/27/12 22:03	
1,2-Dichloropropane	ug/L	ND	4.0	08/27/12 22:03	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	08/27/12 22:03	
1,3-Dichlorobenzene	ug/L	ND	1.0	08/27/12 22:03	
1,3-Dichloropropane	ug/L	ND	1.0	08/27/12 22:03	
1,4-Dichlorobenzene	ug/L	ND	1.0	08/27/12 22:03	
2,2-Dichloropropane	ug/L	ND	4.0	08/27/12 22:03	
2-Butanone (MEK)	ug/L	ND	4.0	08/27/12 22:03	
2-Chloroethylvinyl ether	ug/L	ND	10.0	08/27/12 22:03	
2-Chlorotoluene	ug/L	ND	1.0	08/27/12 22:03	
2-Hexanone	ug/L	ND	4.0	08/27/12 22:03	
2-Methylnaphthalene	ug/L	ND	5.0	08/27/12 22:03	
4-Chlorotoluene	ug/L	ND	1.0	08/27/12 22:03	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	08/27/12 22:03	
Acetone	ug/L	ND	25.0	08/27/12 22:03	
Acrolein	ug/L	ND	10.0	08/27/12 22:03	
Acrylonitrile	ug/L	ND	10.0	08/27/12 22:03	
Allyl chloride	ug/L	ND	4.0	08/27/12 22:03	
Benzene	ug/L	ND	1.0	08/27/12 22:03	
Bromobenzene	ug/L	ND	1.0	08/27/12 22:03	
Bromochloromethane	ug/L	ND	1.0	08/27/12 22:03	
Bromodichloromethane	ug/L	ND	1.0	08/27/12 22:03	
Bromoform	ug/L	ND	4.0	08/27/12 22:03	
Bromomethane	ug/L	ND	4.0	08/27/12 22:03	CL
Carbon disulfide	ug/L	ND	1.0	08/27/12 22:03	
Carbon tetrachloride	ug/L	ND	1.0	08/27/12 22:03	
Chlorobenzene	ug/L	ND	1.0	08/27/12 22:03	

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REPORT OF LABORATORY ANALYSIS

Page 11 of 20

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QUALITY CONTROL DATA

Project: CITY OF ROCHESTER CRC

Pace Project No.: 10203353

METHOD BLANK: 1275471 Matrix: Water

Associated Lab Samples: 10203353001, 10203353002, 10203353003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroethane	ug/L	ND	1.0	08/27/12 22:03	
Chloroform	ug/L	ND	1.0	08/27/12 22:03	
Chloromethane	ug/L	ND	4.0	08/27/12 22:03	
Chloroprene	ug/L	ND	1.0	08/27/12 22:03	
cis-1,2-Dichloroethene	ug/L	ND	1.0	08/27/12 22:03	
cis-1,3-Dichloropropene	ug/L	ND	4.0	08/27/12 22:03	
Dibromochloromethane	ug/L	ND	1.0	08/27/12 22:03	
Dibromomethane	ug/L	ND	4.0	08/27/12 22:03	
Dichlorodifluoromethane	ug/L	ND	1.0	08/27/12 22:03	
Dichlorofluoromethane	ug/L	ND	1.0	08/27/12 22:03	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	08/27/12 22:03	
Ethylbenzene	ug/L	ND	1.0	08/27/12 22:03	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	08/27/12 22:03	
Iodomethane	ug/L	ND	4.0	08/27/12 22:03	CL
Isopropylbenzene (Cumene)	ug/L	ND	1.0	08/27/12 22:03	
m&p-Xylene	ug/L	ND	2.0	08/27/12 22:03	
Methyl-tert-butyl ether	ug/L	ND	1.0	08/27/12 22:03	
Methylene Chloride	ug/L	ND	4.0	08/27/12 22:03	
n-Butylbenzene	ug/L	ND	1.0	08/27/12 22:03	
n-Propylbenzene	ug/L	ND	1.0	08/27/12 22:03	
Naphthalene	ug/L	ND	4.0	08/27/12 22:03	
o-Xylene	ug/L	ND	1.0	08/27/12 22:03	
p-Isopropyltoluene	ug/L	ND	1.0	08/27/12 22:03	
sec-Butylbenzene	ug/L	ND	1.0	08/27/12 22:03	
Styrene	ug/L	ND	1.0	08/27/12 22:03	
tert-Butylbenzene	ug/L	ND	1.0	08/27/12 22:03	
Tetrachloroethene	ug/L	ND	1.0	08/27/12 22:03	
Tetrahydrofuran	ug/L	ND	10.0	08/27/12 22:03	
Toluene	ug/L	ND	1.0	08/27/12 22:03	
trans-1,2-Dichloroethene	ug/L	ND	1.0	08/27/12 22:03	
trans-1,3-Dichloropropene	ug/L	ND	4.0	08/27/12 22:03	
Trichloroethene	ug/L	ND	1.0	08/27/12 22:03	
Trichlorofluoromethane	ug/L	ND	1.0	08/27/12 22:03	
Vinyl acetate	ug/L	ND	10.0	08/27/12 22:03	
Vinyl chloride	ug/L	ND	0.40	08/27/12 22:03	
Xylene (Total)	ug/L	ND	3.0	08/27/12 22:03	
1,2-Dichloroethane-d4 (S)	%	96	75-125	08/27/12 22:03	
4-Bromofluorobenzene (S)	%	96	75-125	08/27/12 22:03	
Dibromofluoromethane (S)	%	98	75-125	08/27/12 22:03	
Toluene-d8 (S)	%	99	75-125	08/27/12 22:03	

LABORATORY CONTROL SAMPLE: 1275472

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.3	101	75-125	

QUALITY CONTROL DATA

Project: CITY OF ROCHESTER CRC

Pace Project No.: 10203353

LABORATORY CONTROL SAMPLE: 1275472

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.9	94	75-129	
1,1,2,2-Tetrachloroethane	ug/L	20	19.5	97	69-126	
1,1,2-Trichloroethane	ug/L	20	19.8	99	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	17.5	88	70-127	
1,1-Dichloroethane	ug/L	20	19.0	95	75-128	
1,1-Dichloroethene	ug/L	20	19.6	98	72-130	
1,1-Dichloropropene	ug/L	20	18.1	91	75-130	
1,2,3-Trichlorobenzene	ug/L	20	20.9	105	75-125	
1,2,3-Trichloropropane	ug/L	20	20.1	100	75-125	
1,2,4-Trichlorobenzene	ug/L	20	20.4	102	75-126	
1,2,4-Trimethylbenzene	ug/L	20	18.9	94	75-125	
1,2-Dibromo-3-chloropropane	ug/L	20	17.1	86	72-125	
1,2-Dibromoethane (EDB)	ug/L	20	20.8	104	75-125	
1,2-Dichlorobenzene	ug/L	20	19.8	99	75-125	
1,2-Dichloroethane	ug/L	20	19.6	98	75-125	
1,2-Dichloroethene (Total)	ug/L	40	38.0	95	75-125	
1,2-Dichloropropane	ug/L	20	18.8	94	75-125	
1,3,5-Trimethylbenzene	ug/L	20	18.4	92	75-125	
1,3-Dichlorobenzene	ug/L	20	19.2	96	75-125	
1,3-Dichloropropane	ug/L	20	19.6	98	75-125	
1,4-Dichlorobenzene	ug/L	20	19.1	96	75-125	
2,2-Dichloropropane	ug/L	20	16.6	83	75-133	
2-Butanone (MEK)	ug/L	20	18.3	91	62-132	
2-Chloroethylvinyl ether	ug/L	50	50.3	101	75-125	
2-Chlorotoluene	ug/L	20	18.1	91	74-126	
2-Hexanone	ug/L	20	17.2	86	74-125	
2-Methylnaphthalene	ug/L	10	12.6	126	63-126	
4-Chlorotoluene	ug/L	20	18.3	91	75-126	
4-Methyl-2-pentanone (MIBK)	ug/L	20	18.5	92	73-125	
Acetone	ug/L	50	49.9	100	35-150	
Acrolein	ug/L	200	160	80	62-143	
Acrylonitrile	ug/L	200	188	94	75-125	
Allyl chloride	ug/L	20	18.5	92	71-139	
Benzene	ug/L	20	18.0	90	74-126	
Bromobenzene	ug/L	20	19.5	97	75-125	
Bromochloromethane	ug/L	20	20.7	103	75-125	
Bromodichloromethane	ug/L	20	19.3	97	75-125	
Bromoform	ug/L	20	18.8	94	75-126	
Bromomethane	ug/L	20	12.7	63	59-146	CL
Carbon disulfide	ug/L	20	16.9	85	66-133	
Carbon tetrachloride	ug/L	20	18.1	90	72-133	
Chlorobenzene	ug/L	20	19.1	96	75-125	
Chloroethane	ug/L	20	18.5	93	73-138	
Chloroform	ug/L	20	19.3	96	75-125	
Chloromethane	ug/L	20	12.7	64	68-129	L0
Chloroprene	ug/L	20	17.2	86	68-133	
cis-1,2-Dichloroethene	ug/L	20	19.3	97	75-125	
cis-1,3-Dichloropropene	ug/L	20	18.2	91	75-125	

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REPORT OF LABORATORY ANALYSIS

Page 13 of 20

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QUALITY CONTROL DATA

Project: CITY OF ROCHESTER CRC

Pace Project No.: 10203353

LABORATORY CONTROL SAMPLE: 1275472

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	20	19.2	96	75-125	
Dibromomethane	ug/L	20	19.1	96	75-125	
Dichlorodifluoromethane	ug/L	20	17.8	89	75-150	
Dichlorofluoromethane	ug/L	20	17.7	89	75-128	
Diethyl ether (Ethyl ether)	ug/L	20	19.5	98	75-125	
Ethylbenzene	ug/L	20	18.1	90	75-125	
Hexachloro-1,3-butadiene	ug/L	10	9.2	92	61-133	
Iodomethane	ug/L	20	12.1	60	55-149	CL
Isopropylbenzene (Cumene)	ug/L	20	19.1	95	75-125	
m&p-Xylene	ug/L	40	38.0	95	75-125	
Methyl-tert-butyl ether	ug/L	20	20.3	102	75-125	
Methylene Chloride	ug/L	20	18.9	94	75-125	
n-Butylbenzene	ug/L	20	16.8	84	72-130	
n-Propylbenzene	ug/L	20	17.5	87	74-129	
Naphthalene	ug/L	20	20.6	103	75-125	
o-Xylene	ug/L	20	19.4	97	75-125	
p-Isopropyltoluene	ug/L	20	18.6	93	73-130	
sec-Butylbenzene	ug/L	20	18.1	90	71-131	
Styrene	ug/L	20	19.5	97	75-125	
tert-Butylbenzene	ug/L	20	18.5	92	73-129	
Tetrachloroethene	ug/L	20	19.4	97	74-127	
Tetrahydrofuran	ug/L	200	192	96	71-127	
Toluene	ug/L	20	18.5	92	75-125	
trans-1,2-Dichloroethene	ug/L	20	18.9	94	74-127	
trans-1,3-Dichloropropene	ug/L	20	18.6	93	75-125	
Trichloroethene	ug/L	20	19.5	98	75-125	
Trichlorofluoromethane	ug/L	20	18.4	92	75-150	
Vinyl acetate	ug/L	20	18.2	91	75-128	
Vinyl chloride	ug/L	20	16.8	84	75-132	
Xylene (Total)	ug/L	60	57.4	96	75-125	
1,2-Dichloroethane-d4 (S)	%			97	75-125	
4-Bromofluorobenzene (S)	%			94	75-125	
Dibromofluoromethane (S)	%			104	75-125	
Toluene-d8 (S)	%			99	75-125	

MATRIX SPIKE SAMPLE: 1275473

Parameter	Units	10203353001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	21.3	107	75-126	
1,1,1-Trichloroethane	ug/L	ND	20	21.9	110	75-141	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	19.6	98	68-129	
1,1,2-Trichloroethane	ug/L	ND	20	20.2	101	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	27.6	137	75-150	
1,1-Dichloroethane	ug/L	ND	20	20.7	103	75-139	
1,1-Dichloroethene	ug/L	ND	20	23.6	118	75-147	
1,1-Dichloropropene	ug/L	ND	20	21.8	109	75-150	
1,2,3-Trichlorobenzene	ug/L	ND	20	21.4	107	75-125	

Date: 08/31/2012 08:45 AM

REPORT OF LABORATORY ANALYSIS

Page 14 of 20

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QUALITY CONTROL DATA

Project: CITY OF ROCHESTER CRC

Pace Project No.: 10203353

MATRIX SPIKE SAMPLE: 1275473		10203353001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,2,3-Trichloropropane	ug/L	ND	20	19.9	100	71-125	
1,2,4-Trichlorobenzene	ug/L	ND	20	21.1	106	75-127	
1,2,4-Trimethylbenzene	ug/L	ND	20	20.3	101	74-133	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	17.4	87	69-125	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20.7	104	75-125	
1,2-Dichlorobenzene	ug/L	ND	20	20.7	103	75-125	
1,2-Dichloroethane	ug/L	ND	20	20.3	101	75-130	
1,2-Dichloroethene (Total)	ug/L	ND	40	40.4	101	70-130	
1,2-Dichloropropane	ug/L	ND	20	20.1	100	75-129	
1,3,5-Trimethylbenzene	ug/L	ND	20	20.4	102	72-135	
1,3-Dichlorobenzene	ug/L	ND	20	20.4	102	75-125	
1,3-Dichloropropane	ug/L	ND	20	19.8	99	75-125	
1,4-Dichlorobenzene	ug/L	ND	20	20.1	101	75-125	
2,2-Dichloropropane	ug/L	ND	20	19.1	95	75-150	
2-Butanone (MEK)	ug/L	ND	20	17.9	90	56-126	
2-Chloroethylvinyl ether	ug/L	ND	50	ND	0	30-125	M1
2-Chlorotoluene	ug/L	ND	20	19.9	100	75-130	
2-Hexanone	ug/L	ND	20	17.9	89	68-125	
2-Methylnaphthalene	ug/L	ND	10	13.8	138	60-130	M1
4-Chlorotoluene	ug/L	ND	20	20.1	100	75-127	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	18.5	93	69-128	
Acetone	ug/L	ND	50	48.5	90	32-129	
Acrolein	ug/L	ND	200	155	78	44-150	
Acrylonitrile	ug/L	ND	200	189	94	70-130	
Allyl chloride	ug/L	ND	20	20.7	103	61-150	
Benzene	ug/L	ND	20	19.6	98	75-135	
Bromobenzene	ug/L	ND	20	20.4	102	75-125	
Bromochloromethane	ug/L	ND	20	21.1	106	75-128	
Bromodichloromethane	ug/L	ND	20	20.0	100	75-127	
Bromoform	ug/L	ND	20	19.0	95	76-125	
Bromomethane	ug/L	ND	20	16.4	82	64-150	CL
Carbon disulfide	ug/L	ND	20	20.6	103	51-150	
Carbon tetrachloride	ug/L	ND	20	22.4	112	75-148	
Chlorobenzene	ug/L	ND	20	20.4	102	75-125	
Chloroethane	ug/L	ND	20	21.2	106	75-146	
Chloroform	ug/L	ND	20	20.7	103	75-131	
Chloromethane	ug/L	ND	20	14.2	71	73-141	M0
Chloroprene	ug/L	ND	20	20.0	100	63-150	
cis-1,2-Dichloroethene	ug/L	ND	20	21.3	106	75-136	
cis-1,3-Dichloropropene	ug/L	ND	20	19.4	97	75-130	
Dibromochloromethane	ug/L	ND	20	20.1	100	75-125	
Dibromomethane	ug/L	ND	20	19.4	97	75-125	
Dichlorodifluoromethane	ug/L	ND	20	27.6	138	75-150	
Dichlorofluoromethane	ug/L	ND	20	20.0	100	75-140	
Diethyl ether (Ethyl ether)	ug/L	ND	20	19.9	100	75-129	
Ethylbenzene	ug/L	ND	20	20.0	100	75-129	
Hexachloro-1,3-butadiene	ug/L	ND	10	11.1	111	72-139	
Iodomethane	ug/L	ND	20	13.5	67	64-150	CL

QUALITY CONTROL DATA

Project: CITY OF ROCHESTER CRC

Pace Project No.: 10203353

MATRIX SPIKE SAMPLE: 1275473		10203353001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Isopropylbenzene (Cumene)	ug/L	ND	20	21.3	106	75-131	
m&p-Xylene	ug/L	ND	40	41.8	105	75-129	
Methyl-tert-butyl ether	ug/L	ND	20	20.6	103	75-131	
Methylene Chloride	ug/L	ND	20	19.6	98	74-125	
n-Butylbenzene	ug/L	ND	20	19.4	97	75-138	
n-Propylbenzene	ug/L	ND	20	19.8	99	75-134	
Naphthalene	ug/L	ND	20	20.9	105	75-125	
o-Xylene	ug/L	ND	20	21.0	105	75-128	
p-Isopropyltoluene	ug/L	ND	20	20.8	104	75-136	
sec-Butylbenzene	ug/L	ND	20	20.6	103	75-135	
Styrene	ug/L	ND	20	20.5	103	59-144	
tert-Butylbenzene	ug/L	ND	20	20.7	103	75-133	
Tetrachloroethene	ug/L	45.5	20	69.2	119	75-136	
Tetrahydrofuran	ug/L	ND	200	192	96	64-134	
Toluene	ug/L	ND	20	20.3	101	75-127	
trans-1,2-Dichloroethene	ug/L	ND	20	21.6	108	75-142	
trans-1,3-Dichloropropene	ug/L	ND	20	19.1	96	74-129	
Trichloroethene	ug/L	ND	20	21.8	109	75-136	
Trichlorofluoromethane	ug/L	ND	20	25.1	126	75-150	
Vinyl acetate	ug/L	ND	20	16.1	80	58-145	
Vinyl chloride	ug/L	ND	20	20.9	105	75-150	
Xylene (Total)	ug/L	ND	60	62.9	105	75-128	
1,2-Dichloroethane-d4 (S)	%				99	75-125	
4-Bromofluorobenzene (S)	%				95	75-125	
Dibromofluoromethane (S)	%				105	75-125	
Toluene-d8 (S)	%				99	75-125	

SAMPLE DUPLICATE: 1275474

Parameter	Units	10203353002	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-Dichloroethene (Total)	ug/L	ND	ND		30	

Date: 08/31/2012 08:45 AM

REPORT OF LABORATORY ANALYSIS

Page 16 of 20

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QUALITY CONTROL DATA

Project: CITY OF ROCHESTER CRC

Pace Project No.: 10203353

SAMPLE DUPLICATE: 1275474

Parameter	Units	10203353002 Result	Dup Result	RPD	Max RPD	Qualifiers
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-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	12.6J		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	CL
Carbon disulfide	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroethane	ug/L	ND	ND		30	
Chloroform	ug/L	ND	ND		30	
Chloromethane	ug/L	ND	ND		30	
Chloroprene	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	ND	ND		30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Dichlorofluoromethane	ug/L	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
Iodomethane	ug/L	ND	ND		30	CL
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	

QUALITY CONTROL DATA

Project: CITY OF ROCHESTER CRC

Pace Project No.: 10203353

SAMPLE DUPLICATE: 1275474

Parameter	Units	10203353002 Result	Dup Result	RPD	Max RPD	Qualifiers
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	.2J		30	
Tetrahydrofuran	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl acetate	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	96	96	.3		
4-Bromofluorobenzene (S)	%	96	96	.05		
Dibromofluoromethane (S)	%	97	97	.7		
Toluene-d8 (S)	%	99	98	.6		

QUALIFIERS

Project: CITY OF ROCHESTER CRC

Pace Project No.: 10203353

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.

PRL - Pace Reporting Limit.

RL - Reporting 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 TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 10203353

[1] Samples were received outside of the recommended temperature range of 0-6 degrees Celsius. The samples were received from the field on ice, indicating the cool down process had begun.

ANALYTE QUALIFIERS

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

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.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CITY OF ROCHESTER CRC

Pace Project No.: 10203353

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10203353001	AS - INFLUENT	EPA 624	MSV/21231		
10203353002	AS - EFFLUENT	EPA 624	MSV/21231		
10203353003	TRIP BLANK	EPA 624	MSV/21231		

1120



CHAIN-OF-CUSTODY / Analytical Request Document

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

10203353

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 Requested Due Date/TAT: Normal		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 <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER SITE: <input type="checkbox"/> SA <input type="checkbox"/> DV <input type="checkbox"/> P <input type="checkbox"/> D LOCATION: <input type="checkbox"/> SH <input type="checkbox"/> SC <input type="checkbox"/> VI <input type="checkbox"/> THER		
Section D Required Client Information SAMPLE ID One Character per box. IDs MUST BE UNIQUE (A-Z, 0-9 / / -)	Valid Matrix Codes MATRIX: DRINKING WATER, WATER, INDUSTRIAL WASTE, SOIL/SOLID, OIL, WASTE, OTHER, TISSUE CODE: DW, WT, IW, P, SL, IL, WP, GW, GS, TS	MATRIX CODE SAMPLE TYPE Q-CORAB Q-COMP	COLLECTED COMPOSITE START TIME DATE COMPOSITE END/GRAB TIME DATE		# OF CONTAINERS COLLECTION	Preservatives: Unpreserved, H ₂ SO ₄ , HNO ₃ , HCl, NaOH, Na ₂ S ₂ O ₃ , Methanol, Other	Filtered (Y/N) Requested Ant: EPA 824	Pace Project Number Lab ID.
			1 A S - I n f i l u e n t 2 A S - E f f l u e n t 3 4 5 6 7 8	W G W G 8/23/12 8/23/12 U				
Additional Comments: Relinquished by Affiliation: CSI Pace Date: 8/23/12 5:57 PM Accepted by Affiliation: [Signature] Date: 8/23/12								
RELINQUISHED BY / AFFILIATION DATE TIME ACCEPTED BY / AFFILIATION DATE TIME SAMPLE CONDITIONS								
Relinquished by Affiliation: CSI Pace Date: 8/23/12 Time: 5:57 PM Accepted by Affiliation: [Signature] Date: 8/23/12								
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: Eric Gabrielson SIGNATURE of SAMPLER: [Signature] DATE Signed (MM/DD/YY): 8/23/12								
Temp in °C: Received on Ice: Custody Sealed Cooler: Samples Intact:								



Document Name:
Sample Condition Upon Receipt Form
 Document No.:
F-MN-L-213-rev.03

Document Revised: 19Jun2012
 Page 1 of 1
 Issuing Authority:
 Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Landmark Project #: _____

WO# : 10203353

 10203353

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

Tracking Number: _____

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 80512447 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature: 14.7 Biological Tissue Frozen? Yes No Date and Initials of Person Examining Contents: 01823-12
 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 and 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 (<72 hr)?	<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>		
All containers needing acid/base preservation have been checked? Noncompliances 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? (HNO ₃ , H ₂ SO ₄ , HCl <2; NaOH >12)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Sample #
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: _____
Headspace in VOA Vials (>5mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
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>GR0312-1</u>		

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: Eric Gabnelson Date/Time: 8/24/12 0949
 Comments/Resolution: coll date 8/23 Field Data Required? Yes No

Project Manager Review: CMW Date: 8/24/12

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)

July 27, 2012

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

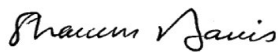
RE: Project: CITY OF ROCHESTER CRC
Pace Project No.: 10199575

Dear Mr. Skramstad:

Enclosed are the analytical results for sample(s) received by the laboratory on July 20, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Shawn Davis for
Carolynne Trout
carolynne.trout@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CITY OF ROCHESTER CRC

Pace Project No.: 10199575

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

Virginia/DCLS Certification #: 002521

Virginia/VELAP Certification #: 460163

Washington Certification #: C754

Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

Page 2 of 20

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SAMPLE SUMMARY

Project: CITY OF ROCHESTER CRC

Pace Project No.: 10199575

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10199575001	AS-INFLUENT	Water	07/18/12 10:50	07/20/12 09:30
10199575002	AS-EFFLUENT	Water	07/18/12 10:55	07/20/12 09:30
10199575003	TRIP BLANK	Water	07/18/12 00:00	07/20/12 09:30

REPORT OF LABORATORY ANALYSIS

Page 3 of 20

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SAMPLE ANALYTE COUNT

Project: CITY OF ROCHESTER CRC

Pace Project No.: 10199575

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10199575001	AS-INFLUENT	EPA 624	SE	83
10199575002	AS-EFFLUENT	EPA 624	SE	83
10199575003	TRIP BLANK	EPA 624	SE	83

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CITY OF ROCHESTER CRC

Pace Project No.: 10199575

Sample: AS-INFLUENT	Lab ID: 10199575001	Collected: 07/18/12 10:50	Received: 07/20/12 09:30	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		07/27/12 01:27	67-64-1	
Acrolein	ND ug/L		10.0	1		07/27/12 01:27	107-02-8	
Acrylonitrile	ND ug/L		10.0	1		07/27/12 01:27	107-13-1	
Allyl chloride	ND ug/L		4.0	1		07/27/12 01:27	107-05-1	
Benzene	ND ug/L		1.0	1		07/27/12 01:27	71-43-2	
Bromobenzene	ND ug/L		1.0	1		07/27/12 01:27	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		07/27/12 01:27	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		07/27/12 01:27	75-27-4	
Bromoform	ND ug/L		4.0	1		07/27/12 01:27	75-25-2	
Bromomethane	ND ug/L		4.0	1		07/27/12 01:27	74-83-9	
2-Butanone (MEK)	ND ug/L		4.0	1		07/27/12 01:27	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		07/27/12 01:27	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		07/27/12 01:27	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		07/27/12 01:27	98-06-6	
Carbon disulfide	ND ug/L		1.0	1		07/27/12 01:27	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		07/27/12 01:27	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		07/27/12 01:27	108-90-7	
Chloroethane	ND ug/L		1.0	1		07/27/12 01:27	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		10.0	1		07/27/12 01:27	110-75-8	M1
Chloroform	ND ug/L		1.0	1		07/27/12 01:27	67-66-3	
Chloromethane	ND ug/L		4.0	1		07/27/12 01:27	74-87-3	
Chloroprene	ND ug/L		1.0	1		07/27/12 01:27	126-99-8	
2-Chlorotoluene	ND ug/L		1.0	1		07/27/12 01:27	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		07/27/12 01:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	1		07/27/12 01:27	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		07/27/12 01:27	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		07/27/12 01:27	106-93-4	
Dibromomethane	ND ug/L		4.0	1		07/27/12 01:27	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		07/27/12 01:27	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		07/27/12 01:27	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		07/27/12 01:27	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		07/27/12 01:27	75-71-8	L2
1,1-Dichloroethane	ND ug/L		1.0	1		07/27/12 01:27	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		07/27/12 01:27	107-06-2	
1,2-Dichloroethene (Total)	ND ug/L		2.0	1		07/27/12 01:27	540-59-0	
1,1-Dichloroethene	ND ug/L		1.0	1		07/27/12 01:27	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		07/27/12 01:27	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		07/27/12 01:27	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	1		07/27/12 01:27	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	1		07/27/12 01:27	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		07/27/12 01:27	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	1		07/27/12 01:27	594-20-7	L2
1,1-Dichloropropene	ND ug/L		1.0	1		07/27/12 01:27	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	1		07/27/12 01:27	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	1		07/27/12 01:27	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	1		07/27/12 01:27	60-29-7	
Ethylbenzene	ND ug/L		1.0	1		07/27/12 01:27	100-41-4	

Date: 07/27/2012 06:43 PM

REPORT OF LABORATORY ANALYSIS

Page 5 of 20

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ANALYTICAL RESULTS

Project: CITY OF ROCHESTER CRC

Pace Project No.: 10199575

Sample: AS-INFLUENT	Lab ID: 10199575001	Collected: 07/18/12 10:50	Received: 07/20/12 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV		Analytical Method: EPA 624						
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		07/27/12 01:27	87-68-3	
2-Hexanone	ND ug/L		4.0	1		07/27/12 01:27	591-78-6	
Iodomethane	ND ug/L		4.0	1		07/27/12 01:27	74-88-4	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		07/27/12 01:27	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		07/27/12 01:27	99-87-6	
Methylene Chloride	ND ug/L		4.0	1		07/27/12 01:27	75-09-2	
2-Methylnaphthalene	ND ug/L		5.0	1		07/27/12 01:27	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND ug/L		4.0	1		07/27/12 01:27	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		07/27/12 01:27	1634-04-4	
Naphthalene	ND ug/L		4.0	1		07/27/12 01:27	91-20-3	
n-Propylbenzene	ND ug/L		1.0	1		07/27/12 01:27	103-65-1	
Styrene	ND ug/L		1.0	1		07/27/12 01:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		07/27/12 01:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		07/27/12 01:27	79-34-5	
Tetrachloroethene	36.1 ug/L		1.0	1		07/27/12 01:27	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	1		07/27/12 01:27	109-99-9	
Toluene	ND ug/L		1.0	1		07/27/12 01:27	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		07/27/12 01:27	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		07/27/12 01:27	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		07/27/12 01:27	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		07/27/12 01:27	79-00-5	
Trichloroethene	ND ug/L		1.0	1		07/27/12 01:27	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		07/27/12 01:27	75-69-4	
1,2,3-Trichloropropane	ND ug/L		4.0	1		07/27/12 01:27	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	1		07/27/12 01:27	76-13-1	L2
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		07/27/12 01:27	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		07/27/12 01:27	108-67-8	
Vinyl acetate	ND ug/L		10.0	1		07/27/12 01:27	108-05-4	
Vinyl chloride	ND ug/L		0.40	1		07/27/12 01:27	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		07/27/12 01:27	1330-20-7	
m&p-Xylene	ND ug/L		2.0	1		07/27/12 01:27	179601-23-1	
o-Xylene	ND ug/L		1.0	1		07/27/12 01:27	95-47-6	
Surrogates								
Dibromofluoromethane (S)	102 %		75-125	1		07/27/12 01:27	1868-53-7	
1,2-Dichloroethane-d4 (S)	106 %		75-125	1		07/27/12 01:27	17060-07-0	
Toluene-d8 (S)	103 %		75-125	1		07/27/12 01:27	2037-26-5	
4-Bromofluorobenzene (S)	103 %		75-125	1		07/27/12 01:27	460-00-4	

ANALYTICAL RESULTS

Project: CITY OF ROCHESTER CRC

Pace Project No.: 10199575

Sample: AS-EFFLUENT	Lab ID: 10199575002	Collected: 07/18/12 10:55	Received: 07/20/12 09:30	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		07/27/12 01:42	67-64-1	
Acrolein	ND ug/L		10.0	1		07/27/12 01:42	107-02-8	
Acrylonitrile	ND ug/L		10.0	1		07/27/12 01:42	107-13-1	
Allyl chloride	ND ug/L		4.0	1		07/27/12 01:42	107-05-1	
Benzene	ND ug/L		1.0	1		07/27/12 01:42	71-43-2	
Bromobenzene	ND ug/L		1.0	1		07/27/12 01:42	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		07/27/12 01:42	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		07/27/12 01:42	75-27-4	
Bromoform	ND ug/L		4.0	1		07/27/12 01:42	75-25-2	
Bromomethane	ND ug/L		4.0	1		07/27/12 01:42	74-83-9	
2-Butanone (MEK)	ND ug/L		4.0	1		07/27/12 01:42	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		07/27/12 01:42	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		07/27/12 01:42	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		07/27/12 01:42	98-06-6	
Carbon disulfide	ND ug/L		1.0	1		07/27/12 01:42	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		07/27/12 01:42	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		07/27/12 01:42	108-90-7	
Chloroethane	ND ug/L		1.0	1		07/27/12 01:42	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		10.0	1		07/27/12 01:42	110-75-8	
Chloroform	ND ug/L		1.0	1		07/27/12 01:42	67-66-3	
Chloromethane	ND ug/L		4.0	1		07/27/12 01:42	74-87-3	
Chloroprene	ND ug/L		1.0	1		07/27/12 01:42	126-99-8	
2-Chlorotoluene	ND ug/L		1.0	1		07/27/12 01:42	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		07/27/12 01:42	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	1		07/27/12 01:42	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		07/27/12 01:42	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		07/27/12 01:42	106-93-4	
Dibromomethane	ND ug/L		4.0	1		07/27/12 01:42	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		07/27/12 01:42	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		07/27/12 01:42	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		07/27/12 01:42	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		07/27/12 01:42	75-71-8	L2
1,1-Dichloroethane	ND ug/L		1.0	1		07/27/12 01:42	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		07/27/12 01:42	107-06-2	
1,2-Dichloroethene (Total)	ND ug/L		2.0	1		07/27/12 01:42	540-59-0	
1,1-Dichloroethene	ND ug/L		1.0	1		07/27/12 01:42	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		07/27/12 01:42	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		07/27/12 01:42	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	1		07/27/12 01:42	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	1		07/27/12 01:42	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		07/27/12 01:42	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	1		07/27/12 01:42	594-20-7	L2
1,1-Dichloropropene	ND ug/L		1.0	1		07/27/12 01:42	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	1		07/27/12 01:42	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	1		07/27/12 01:42	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	1		07/27/12 01:42	60-29-7	
Ethylbenzene	ND ug/L		1.0	1		07/27/12 01:42	100-41-4	

Date: 07/27/2012 06:43 PM

REPORT OF LABORATORY ANALYSIS

Page 7 of 20

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ANALYTICAL RESULTS

Project: CITY OF ROCHESTER CRC

Pace Project No.: 10199575

Sample: AS-EFFLUENT		Lab ID: 10199575002	Collected: 07/18/12 10:55	Received: 07/20/12 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
624 MSV		Analytical Method: EPA 624							
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		07/27/12 01:42	87-68-3		
2-Hexanone	ND ug/L		4.0	1		07/27/12 01:42	591-78-6		
Iodomethane	ND ug/L		4.0	1		07/27/12 01:42	74-88-4		
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		07/27/12 01:42	98-82-8		
p-Isopropyltoluene	ND ug/L		1.0	1		07/27/12 01:42	99-87-6		
Methylene Chloride	ND ug/L		4.0	1		07/27/12 01:42	75-09-2		
2-Methylnaphthalene	ND ug/L		5.0	1		07/27/12 01:42	91-57-6		
4-Methyl-2-pentanone (MIBK)	ND ug/L		4.0	1		07/27/12 01:42	108-10-1		
Methyl-tert-butyl ether	ND ug/L		1.0	1		07/27/12 01:42	1634-04-4		
Naphthalene	ND ug/L		4.0	1		07/27/12 01:42	91-20-3		
n-Propylbenzene	ND ug/L		1.0	1		07/27/12 01:42	103-65-1		
Styrene	ND ug/L		1.0	1		07/27/12 01:42	100-42-5		
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		07/27/12 01:42	630-20-6		
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		07/27/12 01:42	79-34-5		
Tetrachloroethene	35.2 ug/L		1.0	1		07/27/12 01:42	127-18-4		
Tetrahydrofuran	ND ug/L		10.0	1		07/27/12 01:42	109-99-9		
Toluene	ND ug/L		1.0	1		07/27/12 01:42	108-88-3		
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		07/27/12 01:42	87-61-6		
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		07/27/12 01:42	120-82-1		
1,1,1-Trichloroethane	ND ug/L		1.0	1		07/27/12 01:42	71-55-6		
1,1,2-Trichloroethane	ND ug/L		1.0	1		07/27/12 01:42	79-00-5		
Trichloroethene	ND ug/L		1.0	1		07/27/12 01:42	79-01-6		
Trichlorofluoromethane	ND ug/L		1.0	1		07/27/12 01:42	75-69-4		
1,2,3-Trichloropropane	ND ug/L		4.0	1		07/27/12 01:42	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	1		07/27/12 01:42	76-13-1	L2	
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		07/27/12 01:42	95-63-6		
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		07/27/12 01:42	108-67-8		
Vinyl acetate	ND ug/L		10.0	1		07/27/12 01:42	108-05-4		
Vinyl chloride	ND ug/L		0.40	1		07/27/12 01:42	75-01-4		
Xylene (Total)	ND ug/L		3.0	1		07/27/12 01:42	1330-20-7		
m&p-Xylene	ND ug/L		2.0	1		07/27/12 01:42	179601-23-1		
o-Xylene	ND ug/L		1.0	1		07/27/12 01:42	95-47-6		
Surrogates									
Dibromofluoromethane (S)	102 %		75-125	1		07/27/12 01:42	1868-53-7		
1,2-Dichloroethane-d4 (S)	107 %		75-125	1		07/27/12 01:42	17060-07-0		
Toluene-d8 (S)	103 %		75-125	1		07/27/12 01:42	2037-26-5		
4-Bromofluorobenzene (S)	101 %		75-125	1		07/27/12 01:42	460-00-4		

ANALYTICAL RESULTS

Project: CITY OF ROCHESTER CRC

Pace Project No.: 10199575

Sample: TRIP BLANK	Lab ID: 10199575003	Collected: 07/18/12 00:00	Received: 07/20/12 09:30	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		07/27/12 01:12	67-64-1	
Acrolein	ND ug/L		10.0	1		07/27/12 01:12	107-02-8	
Acrylonitrile	ND ug/L		10.0	1		07/27/12 01:12	107-13-1	
Allyl chloride	ND ug/L		4.0	1		07/27/12 01:12	107-05-1	
Benzene	ND ug/L		1.0	1		07/27/12 01:12	71-43-2	
Bromobenzene	ND ug/L		1.0	1		07/27/12 01:12	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		07/27/12 01:12	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		07/27/12 01:12	75-27-4	
Bromoform	ND ug/L		4.0	1		07/27/12 01:12	75-25-2	
Bromomethane	ND ug/L		4.0	1		07/27/12 01:12	74-83-9	
2-Butanone (MEK)	ND ug/L		4.0	1		07/27/12 01:12	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		07/27/12 01:12	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		07/27/12 01:12	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		07/27/12 01:12	98-06-6	
Carbon disulfide	ND ug/L		1.0	1		07/27/12 01:12	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		07/27/12 01:12	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		07/27/12 01:12	108-90-7	
Chloroethane	ND ug/L		1.0	1		07/27/12 01:12	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		10.0	1		07/27/12 01:12	110-75-8	
Chloroform	ND ug/L		1.0	1		07/27/12 01:12	67-66-3	
Chloromethane	ND ug/L		4.0	1		07/27/12 01:12	74-87-3	
Chloroprene	ND ug/L		1.0	1		07/27/12 01:12	126-99-8	
2-Chlorotoluene	ND ug/L		1.0	1		07/27/12 01:12	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		07/27/12 01:12	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	1		07/27/12 01:12	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		07/27/12 01:12	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		07/27/12 01:12	106-93-4	
Dibromomethane	ND ug/L		4.0	1		07/27/12 01:12	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		07/27/12 01:12	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		07/27/12 01:12	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		07/27/12 01:12	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		07/27/12 01:12	75-71-8	L2
1,1-Dichloroethane	ND ug/L		1.0	1		07/27/12 01:12	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		07/27/12 01:12	107-06-2	
1,2-Dichloroethene (Total)	ND ug/L		2.0	1		07/27/12 01:12	540-59-0	
1,1-Dichloroethene	ND ug/L		1.0	1		07/27/12 01:12	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		07/27/12 01:12	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		07/27/12 01:12	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	1		07/27/12 01:12	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	1		07/27/12 01:12	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		07/27/12 01:12	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	1		07/27/12 01:12	594-20-7	L2
1,1-Dichloropropene	ND ug/L		1.0	1		07/27/12 01:12	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	1		07/27/12 01:12	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	1		07/27/12 01:12	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	1		07/27/12 01:12	60-29-7	
Ethylbenzene	ND ug/L		1.0	1		07/27/12 01:12	100-41-4	

Date: 07/27/2012 06:43 PM

REPORT OF LABORATORY ANALYSIS

Page 9 of 20

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ANALYTICAL RESULTS

Project: CITY OF ROCHESTER CRC

Pace Project No.: 10199575

Sample: TRIP BLANK	Lab ID: 10199575003	Collected: 07/18/12 00:00	Received: 07/20/12 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV		Analytical Method: EPA 624						
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		07/27/12 01:12	87-68-3	
2-Hexanone	ND ug/L		4.0	1		07/27/12 01:12	591-78-6	
Iodomethane	ND ug/L		4.0	1		07/27/12 01:12	74-88-4	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		07/27/12 01:12	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		07/27/12 01:12	99-87-6	
Methylene Chloride	ND ug/L		4.0	1		07/27/12 01:12	75-09-2	
2-Methylnaphthalene	ND ug/L		5.0	1		07/27/12 01:12	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND ug/L		4.0	1		07/27/12 01:12	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		07/27/12 01:12	1634-04-4	
Naphthalene	ND ug/L		4.0	1		07/27/12 01:12	91-20-3	
n-Propylbenzene	ND ug/L		1.0	1		07/27/12 01:12	103-65-1	
Styrene	ND ug/L		1.0	1		07/27/12 01:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		07/27/12 01:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		07/27/12 01:12	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		07/27/12 01:12	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	1		07/27/12 01:12	109-99-9	
Toluene	ND ug/L		1.0	1		07/27/12 01:12	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		07/27/12 01:12	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		07/27/12 01:12	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		07/27/12 01:12	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		07/27/12 01:12	79-00-5	
Trichloroethene	ND ug/L		1.0	1		07/27/12 01:12	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		07/27/12 01:12	75-69-4	
1,2,3-Trichloropropane	ND ug/L		4.0	1		07/27/12 01:12	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	1		07/27/12 01:12	76-13-1	L2
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		07/27/12 01:12	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		07/27/12 01:12	108-67-8	
Vinyl acetate	ND ug/L		10.0	1		07/27/12 01:12	108-05-4	
Vinyl chloride	ND ug/L		0.40	1		07/27/12 01:12	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		07/27/12 01:12	1330-20-7	
m&p-Xylene	ND ug/L		2.0	1		07/27/12 01:12	179601-23-1	
o-Xylene	ND ug/L		1.0	1		07/27/12 01:12	95-47-6	
Surrogates								
Dibromofluoromethane (S)	102 %		75-125	1		07/27/12 01:12	1868-53-7	
1,2-Dichloroethane-d4 (S)	105 %		75-125	1		07/27/12 01:12	17060-07-0	
Toluene-d8 (S)	102 %		75-125	1		07/27/12 01:12	2037-26-5	
4-Bromofluorobenzene (S)	102 %		75-125	1		07/27/12 01:12	460-00-4	

QUALITY CONTROL DATA

Project: CITY OF ROCHESTER CRC

Pace Project No.: 10199575

QC Batch: MSV/20869 Analysis Method: EPA 624
QC Batch Method: EPA 624 Analysis Description: 624 MSV
Associated Lab Samples: 10199575001, 10199575002, 10199575003

METHOD BLANK: 1250912 Matrix: Water

Associated Lab Samples: 10199575001, 10199575002, 10199575003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	07/27/12 00:58	
1,1,1-Trichloroethane	ug/L	ND	1.0	07/27/12 00:58	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	07/27/12 00:58	
1,1,2-Trichloroethane	ug/L	ND	1.0	07/27/12 00:58	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	07/27/12 00:58	
1,1-Dichloroethane	ug/L	ND	1.0	07/27/12 00:58	
1,1-Dichloroethene	ug/L	ND	1.0	07/27/12 00:58	
1,1-Dichloropropene	ug/L	ND	1.0	07/27/12 00:58	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	07/27/12 00:58	
1,2,3-Trichloropropane	ug/L	ND	4.0	07/27/12 00:58	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	07/27/12 00:58	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	07/27/12 00:58	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	07/27/12 00:58	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	07/27/12 00:58	
1,2-Dichlorobenzene	ug/L	ND	1.0	07/27/12 00:58	
1,2-Dichloroethane	ug/L	ND	1.0	07/27/12 00:58	
1,2-Dichloroethene (Total)	ug/L	ND	2.0	07/27/12 00:58	
1,2-Dichloropropane	ug/L	ND	4.0	07/27/12 00:58	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	07/27/12 00:58	
1,3-Dichlorobenzene	ug/L	ND	1.0	07/27/12 00:58	
1,3-Dichloropropane	ug/L	ND	1.0	07/27/12 00:58	
1,4-Dichlorobenzene	ug/L	ND	1.0	07/27/12 00:58	
2,2-Dichloropropane	ug/L	ND	4.0	07/27/12 00:58	
2-Butanone (MEK)	ug/L	ND	4.0	07/27/12 00:58	
2-Chloroethylvinyl ether	ug/L	ND	10.0	07/27/12 00:58	
2-Chlorotoluene	ug/L	ND	1.0	07/27/12 00:58	
2-Hexanone	ug/L	ND	4.0	07/27/12 00:58	
2-Methylnaphthalene	ug/L	ND	5.0	07/27/12 00:58	
4-Chlorotoluene	ug/L	ND	1.0	07/27/12 00:58	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	07/27/12 00:58	
Acetone	ug/L	ND	25.0	07/27/12 00:58	
Acrolein	ug/L	ND	10.0	07/27/12 00:58	
Acrylonitrile	ug/L	ND	10.0	07/27/12 00:58	
Allyl chloride	ug/L	ND	4.0	07/27/12 00:58	
Benzene	ug/L	ND	1.0	07/27/12 00:58	
Bromobenzene	ug/L	ND	1.0	07/27/12 00:58	
Bromochloromethane	ug/L	ND	1.0	07/27/12 00:58	
Bromodichloromethane	ug/L	ND	1.0	07/27/12 00:58	
Bromoform	ug/L	ND	4.0	07/27/12 00:58	
Bromomethane	ug/L	ND	4.0	07/27/12 00:58	
Carbon disulfide	ug/L	ND	1.0	07/27/12 00:58	
Carbon tetrachloride	ug/L	ND	1.0	07/27/12 00:58	
Chlorobenzene	ug/L	ND	1.0	07/27/12 00:58	

Date: 07/27/2012 06:43 PM

REPORT OF LABORATORY ANALYSIS

Page 11 of 20

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QUALITY CONTROL DATA

Project: CITY OF ROCHESTER CRC

Pace Project No.: 10199575

METHOD BLANK: 1250912 Matrix: Water

Associated Lab Samples: 10199575001, 10199575002, 10199575003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroethane	ug/L	ND	1.0	07/27/12 00:58	
Chloroform	ug/L	ND	1.0	07/27/12 00:58	
Chloromethane	ug/L	ND	4.0	07/27/12 00:58	
Chloroprene	ug/L	ND	1.0	07/27/12 00:58	
cis-1,2-Dichloroethene	ug/L	ND	1.0	07/27/12 00:58	
cis-1,3-Dichloropropene	ug/L	ND	4.0	07/27/12 00:58	
Dibromochloromethane	ug/L	ND	1.0	07/27/12 00:58	
Dibromomethane	ug/L	ND	4.0	07/27/12 00:58	
Dichlorodifluoromethane	ug/L	ND	1.0	07/27/12 00:58	
Dichlorofluoromethane	ug/L	ND	1.0	07/27/12 00:58	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	07/27/12 00:58	
Ethylbenzene	ug/L	ND	1.0	07/27/12 00:58	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	07/27/12 00:58	
Iodomethane	ug/L	ND	4.0	07/27/12 00:58	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	07/27/12 00:58	
m&p-Xylene	ug/L	ND	2.0	07/27/12 00:58	
Methyl-tert-butyl ether	ug/L	ND	1.0	07/27/12 00:58	
Methylene Chloride	ug/L	ND	4.0	07/27/12 00:58	
n-Butylbenzene	ug/L	ND	1.0	07/27/12 00:58	
n-Propylbenzene	ug/L	ND	1.0	07/27/12 00:58	
Naphthalene	ug/L	ND	4.0	07/27/12 00:58	
o-Xylene	ug/L	ND	1.0	07/27/12 00:58	
p-Isopropyltoluene	ug/L	ND	1.0	07/27/12 00:58	
sec-Butylbenzene	ug/L	ND	1.0	07/27/12 00:58	
Styrene	ug/L	ND	1.0	07/27/12 00:58	
tert-Butylbenzene	ug/L	ND	1.0	07/27/12 00:58	
Tetrachloroethene	ug/L	ND	1.0	07/27/12 00:58	
Tetrahydrofuran	ug/L	ND	10.0	07/27/12 00:58	
Toluene	ug/L	ND	1.0	07/27/12 00:58	
trans-1,2-Dichloroethene	ug/L	ND	1.0	07/27/12 00:58	
trans-1,3-Dichloropropene	ug/L	ND	4.0	07/27/12 00:58	
Trichloroethene	ug/L	ND	1.0	07/27/12 00:58	
Trichlorofluoromethane	ug/L	ND	1.0	07/27/12 00:58	
Vinyl acetate	ug/L	ND	10.0	07/27/12 00:58	
Vinyl chloride	ug/L	ND	0.40	07/27/12 00:58	
Xylene (Total)	ug/L	ND	3.0	07/27/12 00:58	
1,2-Dichloroethane-d4 (S)	%	106	75-125	07/27/12 00:58	
4-Bromofluorobenzene (S)	%	101	75-125	07/27/12 00:58	
Dibromofluoromethane (S)	%	102	75-125	07/27/12 00:58	
Toluene-d8 (S)	%	102	75-125	07/27/12 00:58	

LABORATORY CONTROL SAMPLE: 1250913

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	45.5	91	75-125	

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REPORT OF LABORATORY ANALYSIS

Page 12 of 20

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QUALITY CONTROL DATA

Project: CITY OF ROCHESTER CRC

Pace Project No.: 10199575

LABORATORY CONTROL SAMPLE: 1250913

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	42.2	84	75-129	
1,1,2,2-Tetrachloroethane	ug/L	50	47.2	94	69-126	
1,1,2-Trichloroethane	ug/L	50	47.3	95	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	34.0	68	70-127	L0
1,1-Dichloroethane	ug/L	50	43.1	86	75-128	
1,1-Dichloroethene	ug/L	50	41.4	83	72-130	
1,1-Dichloropropene	ug/L	50	41.8	84	75-130	
1,2,3-Trichlorobenzene	ug/L	50	49.7	99	75-125	
1,2,3-Trichloropropane	ug/L	50	48.8	98	75-125	
1,2,4-Trichlorobenzene	ug/L	50	48.0	96	75-126	
1,2,4-Trimethylbenzene	ug/L	50	46.6	93	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	47.5	95	72-125	
1,2-Dibromoethane (EDB)	ug/L	50	47.0	94	75-125	
1,2-Dichlorobenzene	ug/L	50	46.0	92	75-125	
1,2-Dichloroethane	ug/L	50	44.6	89	75-125	
1,2-Dichloroethene (Total)	ug/L	100	90.4	90	75-125	
1,2-Dichloropropane	ug/L	50	45.0	90	75-125	
1,3,5-Trimethylbenzene	ug/L	50	46.4	93	75-125	
1,3-Dichlorobenzene	ug/L	50	46.3	93	75-125	
1,3-Dichloropropane	ug/L	50	45.6	91	75-125	
1,4-Dichlorobenzene	ug/L	50	45.1	90	75-125	
2,2-Dichloropropane	ug/L	50	36.7	73	75-133	L0
2-Butanone (MEK)	ug/L	50	45.2	90	62-132	
2-Chloroethylvinyl ether	ug/L	125	147	117	75-125	
2-Chlorotoluene	ug/L	50	45.7	91	74-126	
2-Hexanone	ug/L	50	46.7	93	74-125	
2-Methylnaphthalene	ug/L	25	24.1	96	63-126	
4-Chlorotoluene	ug/L	50	45.2	90	75-126	
4-Methyl-2-pentanone (MIBK)	ug/L	50	48.1	96	73-125	
Acetone	ug/L	125	116	93	35-150	
Acrolein	ug/L	500	471	94	62-143	
Acrylonitrile	ug/L	500	452	90	75-125	
Allyl chloride	ug/L	50	44.0	88	71-139	
Benzene	ug/L	50	42.2	84	74-126	
Bromobenzene	ug/L	50	46.0	92	75-125	
Bromochloromethane	ug/L	50	44.1	88	75-125	
Bromodichloromethane	ug/L	50	45.3	91	75-125	
Bromoform	ug/L	50	48.0	96	75-126	
Bromomethane	ug/L	50	46.1	92	59-146	
Carbon disulfide	ug/L	50	40.3	81	66-133	
Carbon tetrachloride	ug/L	50	41.5	83	72-133	
Chlorobenzene	ug/L	50	44.3	89	75-125	
Chloroethane	ug/L	50	40.2	80	73-138	
Chloroform	ug/L	50	43.7	87	75-125	
Chloromethane	ug/L	50	40.4	81	68-129	
Chloroprene	ug/L	50	42.8	86	68-133	
cis-1,2-Dichloroethene	ug/L	50	43.1	86	75-125	
cis-1,3-Dichloropropene	ug/L	50	45.4	91	75-125	

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REPORT OF LABORATORY ANALYSIS

Page 13 of 20

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QUALITY CONTROL DATA

Project: CITY OF ROCHESTER CRC
Pace Project No.: 10199575

LABORATORY CONTROL SAMPLE: 1250913

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	47.3	95	75-125	
Dibromomethane	ug/L	50	44.9	90	75-125	
Dichlorodifluoromethane	ug/L	50	33.4	67	75-150	L0
Dichlorofluoromethane	ug/L	50	41.4	83	75-128	
Diethyl ether (Ethyl ether)	ug/L	50	46.2	92	75-125	
Ethylbenzene	ug/L	50	44.3	89	75-125	
Hexachloro-1,3-butadiene	ug/L	25	22.0	88	61-133	
Iodomethane	ug/L	50	45.7	91	55-149	
Isopropylbenzene (Cumene)	ug/L	50	45.5	91	75-125	
m&p-Xylene	ug/L	100	90.5	90	75-125	
Methyl-tert-butyl ether	ug/L	50	45.7	91	75-125	
Methylene Chloride	ug/L	50	44.2	88	75-125	
n-Butylbenzene	ug/L	50	45.7	91	72-130	
n-Propylbenzene	ug/L	50	45.1	90	74-129	
Naphthalene	ug/L	50	51.2	102	75-125	
o-Xylene	ug/L	50	45.9	92	75-125	
p-Isopropyltoluene	ug/L	50	47.0	94	73-130	
sec-Butylbenzene	ug/L	50	45.6	91	71-131	
Styrene	ug/L	50	47.7	95	75-125	
tert-Butylbenzene	ug/L	50	46.2	92	73-129	
Tetrachloroethene	ug/L	50	42.9	86	74-127	
Tetrahydrofuran	ug/L	500	462	92	71-127	
Toluene	ug/L	50	43.2	86	75-125	
trans-1,2-Dichloroethene	ug/L	50	42.1	84	74-127	
trans-1,3-Dichloropropene	ug/L	50	47.4	95	75-125	
Trichloroethene	ug/L	50	43.0	86	75-125	
Trichlorofluoromethane	ug/L	50	38.8	78	75-150	
Vinyl acetate	ug/L	50	46.8	94	75-128	
Vinyl chloride	ug/L	50	41.9	84	75-132	
Xylene (Total)	ug/L	150	136	91	75-125	
1,2-Dichloroethane-d4 (S)	%			100	75-125	
4-Bromofluorobenzene (S)	%			100	75-125	
Dibromofluoromethane (S)	%			100	75-125	
Toluene-d8 (S)	%			102	75-125	

MATRIX SPIKE SAMPLE: 1250914

Parameter	Units	10199575001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	50	49.5	99	75-126	
1,1,1-Trichloroethane	ug/L	ND	50	50.5	101	75-141	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	48.1	96	68-129	
1,1,2-Trichloroethane	ug/L	ND	50	49.2	98	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	58.5	116	75-150	
1,1-Dichloroethane	ug/L	ND	50	49.2	98	75-139	
1,1-Dichloroethene	ug/L	ND	50	51.7	103	75-147	
1,1-Dichloropropene	ug/L	ND	50	50.9	102	75-150	
1,2,3-Trichlorobenzene	ug/L	ND	50	51.7	103	75-125	

Date: 07/27/2012 06:43 PM

REPORT OF LABORATORY ANALYSIS

Page 14 of 20

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QUALITY CONTROL DATA

Project: CITY OF ROCHESTER CRC

Pace Project No.: 10199575

MATRIX SPIKE SAMPLE:		1250914						
Parameter	Units	10199575001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers	
1,2,3-Trichloropropane	ug/L	ND	50	49.6	99	71-125		
1,2,4-Trichlorobenzene	ug/L	ND	50	51.3	103	75-127		
1,2,4-Trimethylbenzene	ug/L	ND	50	51.5	103	74-133		
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50.2	100	69-125		
1,2-Dibromoethane (EDB)	ug/L	ND	50	48.4	97	75-125		
1,2-Dichlorobenzene	ug/L	ND	50	49.3	99	75-125		
1,2-Dichloroethane	ug/L	ND	50	47.3	95	75-130		
1,2-Dichloroethene (Total)	ug/L	ND	100	98.2	98	70-130		
1,2-Dichloropropane	ug/L	ND	50	49.2	98	75-129		
1,3,5-Trimethylbenzene	ug/L	ND	50	51.8	104	72-135		
1,3-Dichlorobenzene	ug/L	ND	50	50.1	100	75-125		
1,3-Dichloropropane	ug/L	ND	50	47.6	95	75-125		
1,4-Dichlorobenzene	ug/L	ND	50	48.2	96	75-125		
2,2-Dichloropropane	ug/L	ND	50	43.1	86	75-150		
2-Butanone (MEK)	ug/L	ND	50	46.8	94	56-126		
2-Chloroethylvinyl ether	ug/L	ND	125	ND	0	30-125	M1	
2-Chlorotoluene	ug/L	ND	50	50.5	101	75-130		
2-Hexanone	ug/L	ND	50	48.3	97	68-125		
2-Methylnaphthalene	ug/L	ND	25	25.1	100	60-130		
4-Chlorotoluene	ug/L	ND	50	50.6	101	75-127		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	49.9	100	69-128		
Acetone	ug/L	ND	125	121	97	32-129		
Acrolein	ug/L	ND	500	456	91	44-150		
Acrylonitrile	ug/L	ND	500	462	92	70-130		
Allyl chloride	ug/L	ND	50	51.4	103	61-150		
Benzene	ug/L	ND	50	47.8	96	75-135		
Bromobenzene	ug/L	ND	50	49.3	99	75-125		
Bromochloromethane	ug/L	ND	50	46.6	93	75-128		
Bromodichloromethane	ug/L	ND	50	48.1	96	75-127		
Bromoform	ug/L	ND	50	49.1	98	76-125		
Bromomethane	ug/L	ND	50	52.6	101	64-150		
Carbon disulfide	ug/L	ND	50	49.5	99	51-150		
Carbon tetrachloride	ug/L	ND	50	51.0	102	75-148		
Chlorobenzene	ug/L	ND	50	48.2	96	75-125		
Chloroethane	ug/L	ND	50	45.7	91	75-146		
Chloroform	ug/L	ND	50	49.1	98	75-131		
Chloromethane	ug/L	ND	50	47.8	95	73-141		
Chloroprene	ug/L	ND	50	52.0	104	63-150		
cis-1,2-Dichloroethene	ug/L	ND	50	48.6	97	75-136		
cis-1,3-Dichloropropene	ug/L	ND	50	47.9	96	75-130		
Dibromochloromethane	ug/L	ND	50	49.2	98	75-125		
Dibromomethane	ug/L	ND	50	46.6	93	75-125		
Dichlorodifluoromethane	ug/L	ND	50	56.3	113	75-150		
Dichlorofluoromethane	ug/L	ND	50	49.0	98	75-140		
Diethyl ether (Ethyl ether)	ug/L	ND	50	48.1	96	75-129		
Ethylbenzene	ug/L	ND	50	49.6	99	75-129		
Hexachloro-1,3-butadiene	ug/L	ND	25	24.9	100	72-139		
Iodomethane	ug/L	ND	50	52.4	105	64-150		

QUALITY CONTROL DATA

Project: CITY OF ROCHESTER CRC

Pace Project No.: 10199575

MATRIX SPIKE SAMPLE: 1250914		10199575001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Isopropylbenzene (Cumene)	ug/L	ND	50	51.3	103	75-131	
m&p-Xylene	ug/L	ND	100	100	100	75-129	
Methyl-tert-butyl ether	ug/L	ND	50	47.9	96	75-131	
Methylene Chloride	ug/L	ND	50	47.8	96	74-125	
n-Butylbenzene	ug/L	ND	50	52.4	105	75-138	
n-Propylbenzene	ug/L	ND	50	51.4	103	75-134	
Naphthalene	ug/L	ND	50	53.4	106	75-125	
o-Xylene	ug/L	ND	50	50.6	101	75-128	
p-Isopropyltoluene	ug/L	ND	50	53.5	107	75-136	
sec-Butylbenzene	ug/L	ND	50	53.2	106	75-135	
Styrene	ug/L	ND	50	51.2	102	59-144	
tert-Butylbenzene	ug/L	ND	50	51.9	104	75-133	
Tetrachloroethene	ug/L	36.1	50	85.1	98	75-136	
Tetrahydrofuran	ug/L	ND	500	472	94	64-134	
Toluene	ug/L	ND	50	47.9	96	75-127	
trans-1,2-Dichloroethene	ug/L	ND	50	49.2	98	75-142	
trans-1,3-Dichloropropene	ug/L	ND	50	49.5	99	74-129	
Trichloroethene	ug/L	ND	50	49.4	99	75-136	
Trichlorofluoromethane	ug/L	ND	50	53.7	107	75-150	
Vinyl acetate	ug/L	ND	50	39.3	79	58-145	
Vinyl chloride	ug/L	ND	50	51.2	102	75-150	
Xylene (Total)	ug/L	ND	150	151	100	75-128	
1,2-Dichloroethane-d4 (S)	%				101	75-125	
4-Bromofluorobenzene (S)	%				101	75-125	
Dibromofluoromethane (S)	%				102	75-125	
Toluene-d8 (S)	%				101	75-125	

SAMPLE DUPLICATE: 1250915

Parameter	Units	10199575002	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-Dichloroethene (Total)	ug/L	ND	ND		30	

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REPORT OF LABORATORY ANALYSIS

Page 16 of 20

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QUALITY CONTROL DATA

Project: CITY OF ROCHESTER CRC

Pace Project No.: 10199575

SAMPLE DUPLICATE: 1250915

Parameter	Units	10199575002 Result	Dup Result	RPD	Max RPD	Qualifiers
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-Chloroethylvinyl ether	ug/L	ND	ND		30	
2-Chlorotoluene	ug/L	ND	ND		30	
2-Hexanone	ug/L	ND	ND		30	
2-Methylnaphthalene	ug/L	ND	ND		30	
4-Chlorotoluene	ug/L	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	
Acetone	ug/L	ND	ND		30	
Acrolein	ug/L	ND	ND		30	
Acrylonitrile	ug/L	ND	ND		30	
Allyl chloride	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Bromobenzene	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	
Carbon disulfide	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroethane	ug/L	ND	ND		30	
Chloroform	ug/L	ND	ND		30	
Chloromethane	ug/L	ND	ND		30	
Chloroprene	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	ND	ND		30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Dichlorofluoromethane	ug/L	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
Iodomethane	ug/L	ND	ND		30	
Isopropylbenzene (Cumene)	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	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	.082J		30	
o-Xylene	ug/L	ND	ND		30	

Date: 07/27/2012 06:43 PM

REPORT OF LABORATORY ANALYSIS

Page 17 of 20

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QUALITY CONTROL DATA

Project: CITY OF ROCHESTER CRC

Pace Project No.: 10199575

SAMPLE DUPLICATE: 1250915

Parameter	Units	10199575002 Result	Dup Result	RPD	Max RPD	Qualifiers
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	35.2	12.0	98	30	D6
Tetrahydrofuran	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl acetate	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	107	106	.4		
4-Bromofluorobenzene (S)	%	101	101	.08		
Dibromofluoromethane (S)	%	102	102	.4		
Toluene-d8 (S)	%	103	103	.1		

QUALIFIERS

Project: CITY OF ROCHESTER CRC

Pace Project No.: 10199575

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.

PRL - Pace Reporting Limit.

RL - Reporting 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 TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D6 The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

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: CITY OF ROCHESTER CRC

Pace Project No.: 10199575

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10199575001	AS-INFLUENT	EPA 624	MSV/20869		
10199575002	AS-EFFLUENT	EPA 624	MSV/20869		
10199575003	TRIP BLANK	EPA 624	MSV/20869		



CHAIN-OF-CUSTODY / Analytical Request Document

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

10199575

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
 Requested Due Date/TAT: Normal

Section B Report To:

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 #:

REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER _____
 SITE SA N V P O
 LOCATION H SC VI THER _____

ITEM #	AS - I n f l u e n t	AS - E f f l u e n t	Matrix Code	Valid Matrix Codes	Section D Required Client Information	COLLECTED			# OF CONTAINERS	PRESERVATIVES	Filtered (Y/N)	Requested Amt	Pace Project Number	Lab I.D.
						DATE	TIME	DATE						
1			W G	DRINKING WATER	7/19/12	10:50		3	Unpreserved				001	
2			W G	WASTEWATER PRODUCT	7/19/12	10:55		3	H ₂ O HNO ₃ HCl NaOH Na ₂ S ₂ O ₈ Methanol Other				002	
3				SOIL/SOLID										
4				WASTE WATER										
5				WASTE WATER										
6				WASTE WATER										
7				WASTE WATER										
8				WASTE WATER										

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
TTN/Pace	7/20/12	9:30	G.O.C					Y/N	Y/N	Y/N
								Y/N	Y/N	Y/N
								Y/N	Y/N	Y/N
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: <u>Eric Gabrielson</u> SIGNATURE of SAMPLER: <u>[Signature]</u> DATE Signed (MM/DD/YYYY)										

	Document Name: Sample Condition Upon Receipt Form	Document Revised: 19Jun2012 Page 1 of 1
	Document No.: F-MN-L-213-rev.03	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt **Client Name:** Landmark **Project #:** _____

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

Tracking Number: _____

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 80512447 **Type of Ice:** Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature: 60 **Biological Tissue Frozen?** Yes No **Date and Initials of Person Examining Contents:** 7/20/12 TV

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 and 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 (<72 hr)?	<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 AP</u>		
All containers needing acid/base preservation have been checked? Noncompliances 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? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>12)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Sample #
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: _____
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
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>062912-1</u>		

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: [Signature] **Date:** 7/20/12

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)

October 05, 2012

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

RE: Project: City of Rochester CRC
Pace Project No.: 10206929

Dear Mr. Skramstad:

Enclosed are the analytical results for sample(s) received by the laboratory on September 27, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Carolynne Trout

Carolynne Trout

carolynne.trout@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: City of Rochester CRC

Pace Project No.: 10206929

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

Colorado Certification #Pace

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: Pace

Florida/NELAP Certification #: E87605

Georgia Certification #: 959

Hawaii Certification #Pace

Idaho Certification #: MN00064

Illinois Certification #: 200011

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 York Certification #: 11647

North Carolina Certification #: 530

North Dakota Certification #: R-036

North Dakota Certification #: R-036A

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Oregon Certification #: MN300001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Tennessee Certification #: 02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Virginia/DCLS Certification #: 002521

Virginia/VELAP Certification #: 460163

Washington Certification #: C754

West Virginia Certification #: 382

Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

Page 2 of 32

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SAMPLE SUMMARY

Project: City of Rochester CRC

Pace Project No.: 10206929

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10206929001	DPE - 1	Water	09/26/12 18:20	09/27/12 16:40
10206929002	DPE - 2	Water	09/26/12 17:50	09/27/12 16:40
10206929003	DPE - 3	Water	09/26/12 18:10	09/27/12 16:40
10206929004	DPE - 4	Water	09/26/12 17:40	09/27/12 16:40
10206929005	DPE - 5	Water	09/26/12 17:00	09/27/12 16:40
10206929006	DPE - 6	Water	09/26/12 15:50	09/27/12 16:40
10206929007	DPE - 7	Water	09/26/12 14:50	09/27/12 16:40

REPORT OF LABORATORY ANALYSIS

Page 3 of 32

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SAMPLE ANALYTE COUNT

Project: City of Rochester CRC

Pace Project No.: 10206929

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10206929001	DPE - 1	EPA 8260	EB2	73
10206929002	DPE - 2	EPA 8260	SE	73
10206929003	DPE - 3	EPA 8260	SE	73
10206929004	DPE - 4	EPA 8260	SE	73
10206929005	DPE - 5	EPA 8260	EB2	73
10206929006	DPE - 6	EPA 8260	EB2	73
10206929007	DPE - 7	EPA 8260	EB2	73

REPORT OF LABORATORY ANALYSIS

Page 4 of 32

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ANALYTICAL RESULTS

Project: City of Rochester CRC

Pace Project No.: 10206929

Sample: DPE - 1		Lab ID: 10206929001	Collected: 09/26/12 18:20	Received: 09/27/12 16:40	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		09/28/12 19:32	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		09/28/12 19:32	107-05-1	
Benzene	ND	ug/L	1.0	1		09/28/12 19:32	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/28/12 19:32	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		09/28/12 19:32	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/28/12 19:32	75-27-4	
Bromoform	ND	ug/L	4.0	1		09/28/12 19:32	75-25-2	
Bromomethane	ND	ug/L	4.0	1		09/28/12 19:32	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		09/28/12 19:32	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		09/28/12 19:32	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		09/28/12 19:32	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		09/28/12 19:32	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		09/28/12 19:32	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		09/28/12 19:32	108-90-7	
Chloroethane	ND	ug/L	1.0	1		09/28/12 19:32	75-00-3	
Chloroform	ND	ug/L	1.0	1		09/28/12 19:32	67-66-3	
Chloromethane	ND	ug/L	4.0	1		09/28/12 19:32	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		09/28/12 19:32	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		09/28/12 19:32	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		09/28/12 19:32	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		09/28/12 19:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/28/12 19:32	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		09/28/12 19:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/28/12 19:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/28/12 19:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/28/12 19:32	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/28/12 19:32	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		09/28/12 19:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/28/12 19:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		09/28/12 19:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/28/12 19:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/28/12 19:32	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		09/28/12 19:32	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		09/28/12 19:32	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/28/12 19:32	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		09/28/12 19:32	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/28/12 19:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		09/28/12 19:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		09/28/12 19:32	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		09/28/12 19:32	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		09/28/12 19:32	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		09/28/12 19:32	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/28/12 19:32	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		09/28/12 19:32	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		09/28/12 19:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		09/28/12 19:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/28/12 19:32	1634-04-4	

Date: 10/05/2012 02:22 PM

REPORT OF LABORATORY ANALYSIS

Page 5 of 32

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ANALYTICAL RESULTS

Project: City of Rochester CRC

Pace Project No.: 10206929

Sample: DPE - 1		Lab ID: 10206929001	Collected: 09/26/12 18:20	Received: 09/27/12 16:40	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		09/28/12 19:32	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		09/28/12 19:32	103-65-1	
Styrene	ND	ug/L	1.0	1		09/28/12 19:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/28/12 19:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/28/12 19:32	79-34-5	
Tetrachloroethene	82.2	ug/L	1.0	1		09/28/12 19:32	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		09/28/12 19:32	109-99-9	
Toluene	ND	ug/L	1.0	1		09/28/12 19:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/28/12 19:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/28/12 19:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/28/12 19:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/28/12 19:32	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		09/28/12 19:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/28/12 19:32	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		09/28/12 19:32	96-18-4	
1,1,2-Trichlorotrifluoroethane	1.1	ug/L	1.0	1		09/28/12 19:32	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		09/28/12 19:32	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		09/28/12 19:32	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		09/28/12 19:32	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/28/12 19:32	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		09/28/12 19:32	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		09/28/12 19:32	95-47-6	
Surrogates								
Dibromofluoromethane (S)	103	%	75-125	1		09/28/12 19:32	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	75-125	1		09/28/12 19:32	17060-07-0	
Toluene-d8 (S)	101	%	75-125	1		09/28/12 19:32	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125	1		09/28/12 19:32	460-00-4	

ANALYTICAL RESULTS

Project: City of Rochester CRC

Pace Project No.: 10206929

Sample: DPE - 2		Lab ID: 10206929002	Collected: 09/26/12 17:50	Received: 09/27/12 16:40	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		10/01/12 21:41	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		10/01/12 21:41	107-05-1	
Benzene	ND	ug/L	1.0	1		10/01/12 21:41	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/01/12 21:41	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/01/12 21:41	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/01/12 21:41	75-27-4	
Bromoform	ND	ug/L	4.0	1		10/01/12 21:41	75-25-2	
Bromomethane	ND	ug/L	4.0	1		10/01/12 21:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		10/01/12 21:41	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		10/01/12 21:41	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		10/01/12 21:41	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/01/12 21:41	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		10/01/12 21:41	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/01/12 21:41	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/01/12 21:41	75-00-3	
Chloroform	ND	ug/L	1.0	1		10/01/12 21:41	67-66-3	
Chloromethane	ND	ug/L	4.0	1		10/01/12 21:41	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		10/01/12 21:41	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/01/12 21:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		10/01/12 21:41	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/01/12 21:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/01/12 21:41	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		10/01/12 21:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/01/12 21:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/01/12 21:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/01/12 21:41	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/01/12 21:41	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/01/12 21:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/01/12 21:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/01/12 21:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/01/12 21:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/01/12 21:41	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		10/01/12 21:41	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		10/01/12 21:41	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/01/12 21:41	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		10/01/12 21:41	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/01/12 21:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		10/01/12 21:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		10/01/12 21:41	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		10/01/12 21:41	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		10/01/12 21:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/01/12 21:41	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/01/12 21:41	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		10/01/12 21:41	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		10/01/12 21:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		10/01/12 21:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/01/12 21:41	1634-04-4	

Date: 10/05/2012 02:22 PM

REPORT OF LABORATORY ANALYSIS

Page 7 of 32

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ANALYTICAL RESULTS

Project: City of Rochester CRC

Pace Project No.: 10206929

Sample: DPE - 2		Lab ID: 10206929002	Collected: 09/26/12 17:50	Received: 09/27/12 16:40	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		10/01/12 21:41	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		10/01/12 21:41	103-65-1	
Styrene	ND	ug/L	1.0	1		10/01/12 21:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/01/12 21:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/01/12 21:41	79-34-5	
Tetrachloroethene	39.0	ug/L	1.0	1		10/01/12 21:41	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		10/01/12 21:41	109-99-9	
Toluene	ND	ug/L	1.0	1		10/01/12 21:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		10/01/12 21:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/01/12 21:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/01/12 21:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/01/12 21:41	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/01/12 21:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/01/12 21:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		10/01/12 21:41	96-18-4	
1,1,2-Trichlorotrifluoroethane	3.1	ug/L	1.0	1		10/01/12 21:41	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/01/12 21:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/01/12 21:41	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		10/01/12 21:41	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/01/12 21:41	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		10/01/12 21:41	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		10/01/12 21:41	95-47-6	
Surrogates								
Dibromofluoromethane (S)	99 %		75-125	1		10/01/12 21:41	1868-53-7	
1,2-Dichloroethane-d4 (S)	100 %		75-125	1		10/01/12 21:41	17060-07-0	
Toluene-d8 (S)	99 %		75-125	1		10/01/12 21:41	2037-26-5	
4-Bromofluorobenzene (S)	101 %		75-125	1		10/01/12 21:41	460-00-4	

ANALYTICAL RESULTS

Project: City of Rochester CRC

Pace Project No.: 10206929

Sample: DPE - 3		Lab ID: 10206929003	Collected: 09/26/12 18:10	Received: 09/27/12 16:40	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		10/01/12 21:56	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		10/01/12 21:56	107-05-1	
Benzene	ND	ug/L	1.0	1		10/01/12 21:56	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/01/12 21:56	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/01/12 21:56	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/01/12 21:56	75-27-4	
Bromoform	ND	ug/L	4.0	1		10/01/12 21:56	75-25-2	
Bromomethane	ND	ug/L	4.0	1		10/01/12 21:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		10/01/12 21:56	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		10/01/12 21:56	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		10/01/12 21:56	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/01/12 21:56	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		10/01/12 21:56	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/01/12 21:56	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/01/12 21:56	75-00-3	
Chloroform	ND	ug/L	1.0	1		10/01/12 21:56	67-66-3	
Chloromethane	ND	ug/L	4.0	1		10/01/12 21:56	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		10/01/12 21:56	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/01/12 21:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		10/01/12 21:56	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/01/12 21:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/01/12 21:56	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		10/01/12 21:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/01/12 21:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/01/12 21:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/01/12 21:56	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/01/12 21:56	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/01/12 21:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/01/12 21:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/01/12 21:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/01/12 21:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/01/12 21:56	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		10/01/12 21:56	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		10/01/12 21:56	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/01/12 21:56	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		10/01/12 21:56	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/01/12 21:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		10/01/12 21:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		10/01/12 21:56	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		10/01/12 21:56	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		10/01/12 21:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/01/12 21:56	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/01/12 21:56	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		10/01/12 21:56	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		10/01/12 21:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		10/01/12 21:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/01/12 21:56	1634-04-4	

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REPORT OF LABORATORY ANALYSIS

Page 9 of 32

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ANALYTICAL RESULTS

Project: City of Rochester CRC

Pace Project No.: 10206929

Sample: DPE - 3		Lab ID: 10206929003	Collected: 09/26/12 18:10	Received: 09/27/12 16:40	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		10/01/12 21:56	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		10/01/12 21:56	103-65-1	
Styrene	ND	ug/L	1.0	1		10/01/12 21:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/01/12 21:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/01/12 21:56	79-34-5	
Tetrachloroethene	74.8	ug/L	1.0	1		10/01/12 21:56	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		10/01/12 21:56	109-99-9	
Toluene	ND	ug/L	1.0	1		10/01/12 21:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		10/01/12 21:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/01/12 21:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/01/12 21:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/01/12 21:56	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/01/12 21:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/01/12 21:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		10/01/12 21:56	96-18-4	
1,1,2-Trichlorotrifluoroethane	2.7	ug/L	1.0	1		10/01/12 21:56	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/01/12 21:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/01/12 21:56	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		10/01/12 21:56	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/01/12 21:56	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		10/01/12 21:56	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		10/01/12 21:56	95-47-6	
Surrogates								
Dibromofluoromethane (S)	100 %		75-125	1		10/01/12 21:56	1868-53-7	
1,2-Dichloroethane-d4 (S)	103 %		75-125	1		10/01/12 21:56	17060-07-0	
Toluene-d8 (S)	100 %		75-125	1		10/01/12 21:56	2037-26-5	
4-Bromofluorobenzene (S)	101 %		75-125	1		10/01/12 21:56	460-00-4	

ANALYTICAL RESULTS

Project: City of Rochester CRC

Pace Project No.: 10206929

Sample: DPE - 4	Lab ID: 10206929004	Collected: 09/26/12 17:40	Received: 09/27/12 16:40	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		10/01/12 22:11	67-64-1	
Allyl chloride	ND ug/L		4.0	1		10/01/12 22:11	107-05-1	
Benzene	ND ug/L		1.0	1		10/01/12 22:11	71-43-2	
Bromobenzene	ND ug/L		1.0	1		10/01/12 22:11	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		10/01/12 22:11	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		10/01/12 22:11	75-27-4	
Bromoform	ND ug/L		4.0	1		10/01/12 22:11	75-25-2	
Bromomethane	ND ug/L		4.0	1		10/01/12 22:11	74-83-9	
2-Butanone (MEK)	ND ug/L		4.0	1		10/01/12 22:11	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		10/01/12 22:11	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		10/01/12 22:11	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		10/01/12 22:11	98-06-6	
Carbon tetrachloride	ND ug/L		1.0	1		10/01/12 22:11	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		10/01/12 22:11	108-90-7	
Chloroethane	ND ug/L		1.0	1		10/01/12 22:11	75-00-3	
Chloroform	ND ug/L		1.0	1		10/01/12 22:11	67-66-3	
Chloromethane	ND ug/L		4.0	1		10/01/12 22:11	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	1		10/01/12 22:11	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		10/01/12 22:11	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	1		10/01/12 22:11	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		10/01/12 22:11	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		10/01/12 22:11	106-93-4	
Dibromomethane	ND ug/L		4.0	1		10/01/12 22:11	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		10/01/12 22:11	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		10/01/12 22:11	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		10/01/12 22:11	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		10/01/12 22:11	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		10/01/12 22:11	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		10/01/12 22:11	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		10/01/12 22:11	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		10/01/12 22:11	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		10/01/12 22:11	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	1		10/01/12 22:11	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	1		10/01/12 22:11	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		10/01/12 22:11	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	1		10/01/12 22:11	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		10/01/12 22:11	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	1		10/01/12 22:11	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	1		10/01/12 22:11	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	1		10/01/12 22:11	60-29-7	
Ethylbenzene	ND ug/L		1.0	1		10/01/12 22:11	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		10/01/12 22:11	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		10/01/12 22:11	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		10/01/12 22:11	99-87-6	
Methylene Chloride	ND ug/L		4.0	1		10/01/12 22:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		4.0	1		10/01/12 22:11	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		10/01/12 22:11	1634-04-4	

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REPORT OF LABORATORY ANALYSIS

Page 11 of 32

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ANALYTICAL RESULTS

Project: City of Rochester CRC

Pace Project No.: 10206929

Sample: DPE - 4		Lab ID: 10206929004	Collected: 09/26/12 17:40	Received: 09/27/12 16:40	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		10/01/12 22:11	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		10/01/12 22:11	103-65-1	
Styrene	ND	ug/L	1.0	1		10/01/12 22:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/01/12 22:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/01/12 22:11	79-34-5	
Tetrachloroethene	187	ug/L	1.0	1		10/01/12 22:11	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		10/01/12 22:11	109-99-9	
Toluene	ND	ug/L	1.0	1		10/01/12 22:11	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		10/01/12 22:11	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/01/12 22:11	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/01/12 22:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/01/12 22:11	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/01/12 22:11	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/01/12 22:11	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		10/01/12 22:11	96-18-4	
1,1,2-Trichlorotrifluoroethane	9.7	ug/L	1.0	1		10/01/12 22:11	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/01/12 22:11	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/01/12 22:11	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		10/01/12 22:11	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/01/12 22:11	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		10/01/12 22:11	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		10/01/12 22:11	95-47-6	
Surrogates								
Dibromofluoromethane (S)	99 %		75-125	1		10/01/12 22:11	1868-53-7	
1,2-Dichloroethane-d4 (S)	100 %		75-125	1		10/01/12 22:11	17060-07-0	
Toluene-d8 (S)	100 %		75-125	1		10/01/12 22:11	2037-26-5	
4-Bromofluorobenzene (S)	102 %		75-125	1		10/01/12 22:11	460-00-4	

ANALYTICAL RESULTS

Project: City of Rochester CRC

Pace Project No.: 10206929

Sample: DPE - 5		Lab ID: 10206929005	Collected: 09/26/12 17:00	Received: 09/27/12 16:40	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		09/28/12 19:47	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		09/28/12 19:47	107-05-1	
Benzene	ND	ug/L	1.0	1		09/28/12 19:47	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/28/12 19:47	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		09/28/12 19:47	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/28/12 19:47	75-27-4	
Bromoform	ND	ug/L	4.0	1		09/28/12 19:47	75-25-2	
Bromomethane	ND	ug/L	4.0	1		09/28/12 19:47	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		09/28/12 19:47	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		09/28/12 19:47	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		09/28/12 19:47	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		09/28/12 19:47	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		09/28/12 19:47	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		09/28/12 19:47	108-90-7	
Chloroethane	ND	ug/L	1.0	1		09/28/12 19:47	75-00-3	
Chloroform	ND	ug/L	1.0	1		09/28/12 19:47	67-66-3	
Chloromethane	ND	ug/L	4.0	1		09/28/12 19:47	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		09/28/12 19:47	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		09/28/12 19:47	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		09/28/12 19:47	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		09/28/12 19:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/28/12 19:47	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		09/28/12 19:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/28/12 19:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/28/12 19:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/28/12 19:47	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/28/12 19:47	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		09/28/12 19:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/28/12 19:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		09/28/12 19:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/28/12 19:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/28/12 19:47	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		09/28/12 19:47	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		09/28/12 19:47	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/28/12 19:47	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		09/28/12 19:47	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/28/12 19:47	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		09/28/12 19:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		09/28/12 19:47	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		09/28/12 19:47	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		09/28/12 19:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		09/28/12 19:47	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/28/12 19:47	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		09/28/12 19:47	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		09/28/12 19:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		09/28/12 19:47	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/28/12 19:47	1634-04-4	

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REPORT OF LABORATORY ANALYSIS

Page 13 of 32

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ANALYTICAL RESULTS

Project: City of Rochester CRC

Pace Project No.: 10206929

Sample: DPE - 5		Lab ID: 10206929005	Collected: 09/26/12 17:00	Received: 09/27/12 16:40	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		09/28/12 19:47	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		09/28/12 19:47	103-65-1	
Styrene	ND	ug/L	1.0	1		09/28/12 19:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/28/12 19:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/28/12 19:47	79-34-5	
Tetrachloroethene	16.4	ug/L	1.0	1		09/28/12 19:47	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		09/28/12 19:47	109-99-9	
Toluene	ND	ug/L	1.0	1		09/28/12 19:47	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/28/12 19:47	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/28/12 19:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/28/12 19:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/28/12 19:47	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		09/28/12 19:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/28/12 19:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		09/28/12 19:47	96-18-4	
1,1,2-Trichlorotrifluoroethane	1.2	ug/L	1.0	1		09/28/12 19:47	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		09/28/12 19:47	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		09/28/12 19:47	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		09/28/12 19:47	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/28/12 19:47	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		09/28/12 19:47	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		09/28/12 19:47	95-47-6	
Surrogates								
Dibromofluoromethane (S)	105 %		75-125	1		09/28/12 19:47	1868-53-7	
1,2-Dichloroethane-d4 (S)	106 %		75-125	1		09/28/12 19:47	17060-07-0	
Toluene-d8 (S)	101 %		75-125	1		09/28/12 19:47	2037-26-5	
4-Bromofluorobenzene (S)	103 %		75-125	1		09/28/12 19:47	460-00-4	

ANALYTICAL RESULTS

Project: City of Rochester CRC

Pace Project No.: 10206929

Sample: DPE - 6		Lab ID: 10206929006	Collected: 09/26/12 15:50	Received: 09/27/12 16:40	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		09/28/12 20:03	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		09/28/12 20:03	107-05-1	
Benzene	ND	ug/L	1.0	1		09/28/12 20:03	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/28/12 20:03	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		09/28/12 20:03	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/28/12 20:03	75-27-4	
Bromoform	ND	ug/L	4.0	1		09/28/12 20:03	75-25-2	
Bromomethane	ND	ug/L	4.0	1		09/28/12 20:03	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		09/28/12 20:03	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		09/28/12 20:03	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		09/28/12 20:03	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		09/28/12 20:03	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		09/28/12 20:03	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		09/28/12 20:03	108-90-7	
Chloroethane	ND	ug/L	1.0	1		09/28/12 20:03	75-00-3	
Chloroform	ND	ug/L	1.0	1		09/28/12 20:03	67-66-3	
Chloromethane	ND	ug/L	4.0	1		09/28/12 20:03	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		09/28/12 20:03	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		09/28/12 20:03	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		09/28/12 20:03	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		09/28/12 20:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/28/12 20:03	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		09/28/12 20:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/28/12 20:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/28/12 20:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/28/12 20:03	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/28/12 20:03	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		09/28/12 20:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/28/12 20:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		09/28/12 20:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/28/12 20:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/28/12 20:03	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		09/28/12 20:03	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		09/28/12 20:03	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/28/12 20:03	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		09/28/12 20:03	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/28/12 20:03	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		09/28/12 20:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		09/28/12 20:03	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		09/28/12 20:03	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		09/28/12 20:03	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		09/28/12 20:03	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/28/12 20:03	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		09/28/12 20:03	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		09/28/12 20:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		09/28/12 20:03	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/28/12 20:03	1634-04-4	

Date: 10/05/2012 02:22 PM

REPORT OF LABORATORY ANALYSIS

Page 15 of 32

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ANALYTICAL RESULTS

Project: City of Rochester CRC

Pace Project No.: 10206929

Sample: DPE - 6		Lab ID: 10206929006	Collected: 09/26/12 15:50	Received: 09/27/12 16:40	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		09/28/12 20:03	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		09/28/12 20:03	103-65-1	
Styrene	ND	ug/L	1.0	1		09/28/12 20:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/28/12 20:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/28/12 20:03	79-34-5	
Tetrachloroethene	4.6	ug/L	1.0	1		09/28/12 20:03	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		09/28/12 20:03	109-99-9	
Toluene	ND	ug/L	1.0	1		09/28/12 20:03	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/28/12 20:03	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/28/12 20:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/28/12 20:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/28/12 20:03	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		09/28/12 20:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/28/12 20:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		09/28/12 20:03	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		09/28/12 20:03	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		09/28/12 20:03	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		09/28/12 20:03	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		09/28/12 20:03	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/28/12 20:03	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		09/28/12 20:03	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		09/28/12 20:03	95-47-6	
Surrogates								
Dibromofluoromethane (S)	105 %		75-125	1		09/28/12 20:03	1868-53-7	
1,2-Dichloroethane-d4 (S)	106 %		75-125	1		09/28/12 20:03	17060-07-0	
Toluene-d8 (S)	102 %		75-125	1		09/28/12 20:03	2037-26-5	
4-Bromofluorobenzene (S)	101 %		75-125	1		09/28/12 20:03	460-00-4	

ANALYTICAL RESULTS

Project: City of Rochester CRC

Pace Project No.: 10206929

Sample: DPE - 7		Lab ID: 10206929007	Collected: 09/26/12 14:50	Received: 09/27/12 16:40	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		09/28/12 20:18	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		09/28/12 20:18	107-05-1	
Benzene	ND	ug/L	1.0	1		09/28/12 20:18	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/28/12 20:18	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		09/28/12 20:18	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/28/12 20:18	75-27-4	
Bromoform	ND	ug/L	4.0	1		09/28/12 20:18	75-25-2	
Bromomethane	ND	ug/L	4.0	1		09/28/12 20:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		09/28/12 20:18	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		09/28/12 20:18	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		09/28/12 20:18	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		09/28/12 20:18	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		09/28/12 20:18	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		09/28/12 20:18	108-90-7	
Chloroethane	ND	ug/L	1.0	1		09/28/12 20:18	75-00-3	
Chloroform	ND	ug/L	1.0	1		09/28/12 20:18	67-66-3	
Chloromethane	ND	ug/L	4.0	1		09/28/12 20:18	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		09/28/12 20:18	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		09/28/12 20:18	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		09/28/12 20:18	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		09/28/12 20:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/28/12 20:18	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		09/28/12 20:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/28/12 20:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/28/12 20:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/28/12 20:18	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/28/12 20:18	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		09/28/12 20:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/28/12 20:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		09/28/12 20:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/28/12 20:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/28/12 20:18	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		09/28/12 20:18	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		09/28/12 20:18	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/28/12 20:18	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		09/28/12 20:18	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/28/12 20:18	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		09/28/12 20:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		09/28/12 20:18	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		09/28/12 20:18	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		09/28/12 20:18	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		09/28/12 20:18	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/28/12 20:18	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		09/28/12 20:18	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		09/28/12 20:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		09/28/12 20:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/28/12 20:18	1634-04-4	

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REPORT OF LABORATORY ANALYSIS

Page 17 of 32

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ANALYTICAL RESULTS

Project: City of Rochester CRC

Pace Project No.: 10206929

Sample: DPE - 7		Lab ID: 10206929007	Collected: 09/26/12 14:50	Received: 09/27/12 16:40	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		09/28/12 20:18	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		09/28/12 20:18	103-65-1	
Styrene	ND	ug/L	1.0	1		09/28/12 20:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/28/12 20:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/28/12 20:18	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		09/28/12 20:18	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		09/28/12 20:18	109-99-9	
Toluene	ND	ug/L	1.0	1		09/28/12 20:18	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/28/12 20:18	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/28/12 20:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/28/12 20:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/28/12 20:18	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		09/28/12 20:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/28/12 20:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		09/28/12 20:18	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		09/28/12 20:18	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		09/28/12 20:18	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		09/28/12 20:18	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		09/28/12 20:18	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/28/12 20:18	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		09/28/12 20:18	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		09/28/12 20:18	95-47-6	
Surrogates								
Dibromofluoromethane (S)	104 %		75-125	1		09/28/12 20:18	1868-53-7	
1,2-Dichloroethane-d4 (S)	106 %		75-125	1		09/28/12 20:18	17060-07-0	
Toluene-d8 (S)	101 %		75-125	1		09/28/12 20:18	2037-26-5	
4-Bromofluorobenzene (S)	103 %		75-125	1		09/28/12 20:18	460-00-4	

QUALITY CONTROL DATA

Project: City of Rochester CRC

Pace Project No.: 10206929

QC Batch: MSV/21593 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 10206929001, 10206929005, 10206929006, 10206929007

METHOD BLANK: 1298038 Matrix: Water

Associated Lab Samples: 10206929001, 10206929005, 10206929006, 10206929007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	09/28/12 17:45	
1,1,1-Trichloroethane	ug/L	ND	1.0	09/28/12 17:45	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	09/28/12 17:45	
1,1,2-Trichloroethane	ug/L	ND	1.0	09/28/12 17:45	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	09/28/12 17:45	
1,1-Dichloroethane	ug/L	ND	1.0	09/28/12 17:45	
1,1-Dichloroethene	ug/L	ND	1.0	09/28/12 17:45	
1,1-Dichloropropene	ug/L	ND	1.0	09/28/12 17:45	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	09/28/12 17:45	
1,2,3-Trichloropropane	ug/L	ND	4.0	09/28/12 17:45	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	09/28/12 17:45	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	09/28/12 17:45	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	09/28/12 17:45	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	09/28/12 17:45	
1,2-Dichlorobenzene	ug/L	ND	1.0	09/28/12 17:45	
1,2-Dichloroethane	ug/L	ND	1.0	09/28/12 17:45	
1,2-Dichloropropane	ug/L	ND	4.0	09/28/12 17:45	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	09/28/12 17:45	
1,3-Dichlorobenzene	ug/L	ND	1.0	09/28/12 17:45	
1,3-Dichloropropane	ug/L	ND	1.0	09/28/12 17:45	
1,4-Dichlorobenzene	ug/L	ND	1.0	09/28/12 17:45	
2,2-Dichloropropane	ug/L	ND	4.0	09/28/12 17:45	
2-Butanone (MEK)	ug/L	ND	4.0	09/28/12 17:45	
2-Chlorotoluene	ug/L	ND	1.0	09/28/12 17:45	
4-Chlorotoluene	ug/L	ND	1.0	09/28/12 17:45	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	09/28/12 17:45	
Acetone	ug/L	ND	25.0	09/28/12 17:45	
Allyl chloride	ug/L	ND	4.0	09/28/12 17:45	
Benzene	ug/L	ND	1.0	09/28/12 17:45	
Bromobenzene	ug/L	ND	1.0	09/28/12 17:45	
Bromochloromethane	ug/L	ND	1.0	09/28/12 17:45	
Bromodichloromethane	ug/L	ND	1.0	09/28/12 17:45	
Bromoform	ug/L	ND	4.0	09/28/12 17:45	
Bromomethane	ug/L	ND	4.0	09/28/12 17:45	
Carbon tetrachloride	ug/L	ND	1.0	09/28/12 17:45	
Chlorobenzene	ug/L	ND	1.0	09/28/12 17:45	
Chloroethane	ug/L	ND	1.0	09/28/12 17:45	
Chloroform	ug/L	ND	1.0	09/28/12 17:45	
Chloromethane	ug/L	ND	4.0	09/28/12 17:45	
cis-1,2-Dichloroethene	ug/L	ND	1.0	09/28/12 17:45	
cis-1,3-Dichloropropene	ug/L	ND	4.0	09/28/12 17:45	
Dibromochloromethane	ug/L	ND	1.0	09/28/12 17:45	
Dibromomethane	ug/L	ND	4.0	09/28/12 17:45	

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REPORT OF LABORATORY ANALYSIS

Page 19 of 32

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QUALITY CONTROL DATA

Project: City of Rochester CRC

Pace Project No.: 10206929

METHOD BLANK: 1298038

Matrix: Water

Associated Lab Samples: 10206929001, 10206929005, 10206929006, 10206929007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	09/28/12 17:45	
Dichlorofluoromethane	ug/L	ND	1.0	09/28/12 17:45	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	09/28/12 17:45	
Ethylbenzene	ug/L	ND	1.0	09/28/12 17:45	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	09/28/12 17:45	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	09/28/12 17:45	
m&p-Xylene	ug/L	ND	2.0	09/28/12 17:45	
Methyl-tert-butyl ether	ug/L	ND	1.0	09/28/12 17:45	
Methylene Chloride	ug/L	ND	4.0	09/28/12 17:45	
n-Butylbenzene	ug/L	ND	1.0	09/28/12 17:45	
n-Propylbenzene	ug/L	ND	1.0	09/28/12 17:45	
Naphthalene	ug/L	ND	4.0	09/28/12 17:45	
o-Xylene	ug/L	ND	1.0	09/28/12 17:45	
p-Isopropyltoluene	ug/L	ND	1.0	09/28/12 17:45	
sec-Butylbenzene	ug/L	ND	1.0	09/28/12 17:45	
Styrene	ug/L	ND	1.0	09/28/12 17:45	
tert-Butylbenzene	ug/L	ND	1.0	09/28/12 17:45	
Tetrachloroethene	ug/L	ND	1.0	09/28/12 17:45	
Tetrahydrofuran	ug/L	ND	10.0	09/28/12 17:45	
Toluene	ug/L	ND	1.0	09/28/12 17:45	
trans-1,2-Dichloroethene	ug/L	ND	1.0	09/28/12 17:45	
trans-1,3-Dichloropropene	ug/L	ND	4.0	09/28/12 17:45	
Trichloroethene	ug/L	ND	1.0	09/28/12 17:45	
Trichlorofluoromethane	ug/L	ND	1.0	09/28/12 17:45	
Vinyl chloride	ug/L	ND	0.40	09/28/12 17:45	
Xylene (Total)	ug/L	ND	3.0	09/28/12 17:45	
1,2-Dichloroethane-d4 (S)	%	107	75-125	09/28/12 17:45	
4-Bromofluorobenzene (S)	%	103	75-125	09/28/12 17:45	
Dibromofluoromethane (S)	%	105	75-125	09/28/12 17:45	
Toluene-d8 (S)	%	101	75-125	09/28/12 17:45	

LABORATORY CONTROL SAMPLE: 1298039

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.5	105	75-125	
1,1,1-Trichloroethane	ug/L	50	53.0	106	73-128	
1,1,2,2-Tetrachloroethane	ug/L	50	49.4	99	75-125	
1,1,2-Trichloroethane	ug/L	50	49.1	98	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	42.3	85	63-125	
1,1-Dichloroethane	ug/L	50	53.9	108	72-126	
1,1-Dichloroethene	ug/L	50	50.8	102	73-129	
1,1-Dichloropropene	ug/L	50	53.2	106	72-128	
1,2,3-Trichlorobenzene	ug/L	50	46.3	93	73-125	
1,2,3-Trichloropropane	ug/L	50	48.2	96	75-125	
1,2,4-Trichlorobenzene	ug/L	50	48.1	96	74-125	

Date: 10/05/2012 02:22 PM

REPORT OF LABORATORY ANALYSIS

Page 20 of 32

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QUALITY CONTROL DATA

Project: City of Rochester CRC

Pace Project No.: 10206929

LABORATORY CONTROL SAMPLE: 1298039

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	50	49.4	99	75-126	
1,2-Dibromo-3-chloropropane	ug/L	50	47.3	95	75-125	
1,2-Dibromoethane (EDB)	ug/L	50	49.6	99	75-125	
1,2-Dichlorobenzene	ug/L	50	48.4	97	75-125	
1,2-Dichloroethane	ug/L	50	50.2	100	75-132	
1,2-Dichloropropane	ug/L	50	48.6	97	75-125	
1,3,5-Trimethylbenzene	ug/L	50	50.7	101	75-126	
1,3-Dichlorobenzene	ug/L	50	48.6	97	75-125	
1,3-Dichloropropane	ug/L	50	50.0	100	75-125	
1,4-Dichlorobenzene	ug/L	50	49.0	98	75-125	
2,2-Dichloropropane	ug/L	50	51.9	104	72-133	
2-Butanone (MEK)	ug/L	50	45.6	91	52-138	
2-Chlorotoluene	ug/L	50	50.3	101	74-125	
4-Chlorotoluene	ug/L	50	49.3	99	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	50	47.9	96	75-125	
Acetone	ug/L	125	119	95	30-150	
Allyl chloride	ug/L	50	49.1	98	75-132	
Benzene	ug/L	50	50.4	101	75-132	
Bromobenzene	ug/L	50	48.1	96	75-125	
Bromochloromethane	ug/L	50	50.6	101	75-126	
Bromodichloromethane	ug/L	50	51.2	102	75-125	
Bromoform	ug/L	50	50.8	102	75-125	
Bromomethane	ug/L	50	39.1	78	52-150	
Carbon tetrachloride	ug/L	50	51.3	103	73-132	
Chlorobenzene	ug/L	50	50.4	101	75-125	
Chloroethane	ug/L	50	57.3	115	75-143	
Chloroform	ug/L	50	51.0	102	75-128	
Chloromethane	ug/L	50	36.1	72	56-136	
cis-1,2-Dichloroethene	ug/L	50	50.0	100	75-125	
cis-1,3-Dichloropropene	ug/L	50	51.1	102	75-125	
Dibromochloromethane	ug/L	50	50.1	100	75-125	
Dibromomethane	ug/L	50	50.0	100	75-125	
Dichlorodifluoromethane	ug/L	50	55.8	112	50-137	
Dichlorofluoromethane	ug/L	50	54.4	109	68-133	
Diethyl ether (Ethyl ether)	ug/L	50	48.9	98	75-125	
Ethylbenzene	ug/L	50	49.0	98	75-125	
Hexachloro-1,3-butadiene	ug/L	25	23.0	92	57-132	
Isopropylbenzene (Cumene)	ug/L	50	50.3	101	75-125	
m&p-Xylene	ug/L	100	98.6	99	75-125	
Methyl-tert-butyl ether	ug/L	50	50.2	100	74-130	
Methylene Chloride	ug/L	50	47.6	95	62-127	
n-Butylbenzene	ug/L	50	50.0	100	68-128	
n-Propylbenzene	ug/L	50	50.6	101	74-125	
Naphthalene	ug/L	50	48.1	96	75-125	
o-Xylene	ug/L	50	49.2	98	75-125	
p-Isopropyltoluene	ug/L	50	49.5	99	75-125	
sec-Butylbenzene	ug/L	50	50.2	100	71-125	
Styrene	ug/L	50	50.7	101	75-125	

Date: 10/05/2012 02:22 PM

REPORT OF LABORATORY ANALYSIS

Page 21 of 32

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QUALITY CONTROL DATA

Project: City of Rochester CRC

Pace Project No.: 10206929

LABORATORY CONTROL SAMPLE: 1298039

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	48.7	97	73-125	
Tetrachloroethene	ug/L	50	49.2	98	75-125	
Tetrahydrofuran	ug/L	500	476	95	75-128	
Toluene	ug/L	50	51.7	103	75-125	
trans-1,2-Dichloroethene	ug/L	50	51.2	102	75-125	
trans-1,3-Dichloropropene	ug/L	50	51.4	103	75-125	
Trichloroethene	ug/L	50	51.4	103	75-125	
Trichlorofluoromethane	ug/L	50	46.4	93	64-139	
Vinyl chloride	ug/L	50	57.3	115	75-150	
Xylene (Total)	ug/L	150	148	98	75-125	
1,2-Dichloroethane-d4 (S)	%			100	75-125	
4-Bromofluorobenzene (S)	%			100	75-125	
Dibromofluoromethane (S)	%			102	75-125	
Toluene-d8 (S)	%			104	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1298040 1298041

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10206854004 Result	Spike Conc.	Spike Conc.	MS Result						
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	52.8	53.1	106	106	75-125	.6	30
1,1,1-Trichloroethane	ug/L	ND	50	50	56.0	57.2	112	114	75-145	2	30
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	49.1	51.1	98	102	75-125	4	30
1,1,2-Trichloroethane	ug/L	ND	50	50	47.7	48.2	95	96	75-125	1	30
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	50	50.3	52.0	101	104	75-150	3	30
1,1-Dichloroethane	ug/L	ND	50	50	54.7	55.6	109	111	75-139	2	30
1,1-Dichloroethene	ug/L	ND	50	50	54.0	54.3	108	109	75-148	.7	30
1,1-Dichloropropene	ug/L	ND	50	50	56.0	57.5	112	115	75-148	3	30
1,2,3-Trichlorobenzene	ug/L	ND	50	50	46.4	48.0	93	96	75-127	3	30
1,2,3-Trichloropropane	ug/L	ND	50	50	46.8	48.6	94	97	75-125	4	30
1,2,4-Trichlorobenzene	ug/L	ND	50	50	47.6	49.2	95	98	75-126	3	30
1,2,4-Trimethylbenzene	ug/L	ND	50	50	50.6	52.3	101	105	75-135	3	30
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	49.0	51.1	98	102	75-125	4	30
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	49.5	50.0	99	100	75-125	1	30
1,2-Dichlorobenzene	ug/L	ND	50	50	48.5	50.2	97	100	75-125	4	30
1,2-Dichloroethane	ug/L	ND	50	50	49.3	50.1	99	100	75-139	2	30
1,2-Dichloropropane	ug/L	ND	50	50	49.2	50.0	98	100	75-131	2	30
1,3,5-Trimethylbenzene	ug/L	ND	50	50	52.1	53.5	104	107	75-134	3	30
1,3-Dichlorobenzene	ug/L	ND	50	50	49.5	51.0	99	102	75-125	3	30
1,3-Dichloropropane	ug/L	ND	50	50	49.6	50.1	99	100	75-127	1	30
1,4-Dichlorobenzene	ug/L	ND	50	50	49.7	51.6	99	103	75-125	4	30
2,2-Dichloropropane	ug/L	ND	50	50	54.2	55.5	108	111	75-150	2	30
2-Butanone (MEK)	ug/L	ND	50	50	46.8	46.6	94	93	50-138	.3	30
2-Chlorotoluene	ug/L	ND	50	50	52.1	53.1	104	106	75-134	2	30
4-Chlorotoluene	ug/L	ND	50	50	50.0	51.8	100	104	75-130	4	30
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	50	48.1	48.7	96	97	75-125	1	30
Acetone	ug/L	ND	125	125	113	113	91	91	30-142	.05	30
Allyl chloride	ug/L	ND	50	50	54.6	55.6	109	111	75-146	2	30

Date: 10/05/2012 02:22 PM

REPORT OF LABORATORY ANALYSIS

Page 22 of 32

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QUALITY CONTROL DATA

Project: City of Rochester CRC

Pace Project No.: 10206929

Parameter	10206854004		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	MS % Rec	MSD % Rec	Limits	RPD	RPD	RPD	RPD	Qual
Benzene	ug/L	ND	50	50	51.5	51.7	103	103	75-146	.4	30							
Bromobenzene	ug/L	ND	50	50	48.1	50.0	96	100	75-125	4	30							
Bromochloromethane	ug/L	ND	50	50	47.1	47.3	94	95	75-129	.6	30							
Bromodichloromethane	ug/L	ND	50	50	52.6	52.0	105	104	75-130	1	30							
Bromoform	ug/L	ND	50	50	50.7	51.5	101	103	75-125	2	30							
Bromomethane	ug/L	ND	50	50	39.4	43.4	79	87	52-150	10	30							
Carbon tetrachloride	ug/L	ND	50	50	55.4	56.6	111	113	75-150	2	30							
Chlorobenzene	ug/L	ND	50	50	51.3	51.8	103	104	75-127	1	30							
Chloroethane	ug/L	ND	50	50	53.9	55.5	108	111	75-146	3	30							
Chloroform	ug/L	ND	50	50	51.8	52.1	104	104	75-137	.6	30							
Chloromethane	ug/L	ND	50	50	42.8	42.2	86	84	64-150	1	30							
cis-1,2-Dichloroethene	ug/L	ND	50	50	51.0	52.0	102	104	75-139	2	30							
cis-1,3-Dichloropropene	ug/L	ND	50	50	51.7	52.2	103	104	75-129	1	30							
Dibromochloromethane	ug/L	ND	50	50	49.6	50.6	99	101	75-125	2	30							
Dibromomethane	ug/L	ND	50	50	49.3	49.4	99	99	75-126	.2	30							
Dichlorodifluoromethane	ug/L	ND	50	50	67.4	67.0	135	134	75-150	.5	30							
Dichlorofluoromethane	ug/L	ND	50	50	55.4	55.8	111	112	75-143	.8	30							
Diethyl ether (Ethyl ether)	ug/L	ND	50	50	47.5	47.9	95	96	71-133	1	30							
Ethylbenzene	ug/L	ND	50	50	50.5	50.8	101	102	75-132	.7	30							
Hexachloro-1,3-butadiene	ug/L	ND	25	25	23.1	23.9	92	96	62-147	4	30							
Isopropylbenzene (Cumene)	ug/L	ND	50	50	52.1	52.9	104	106	75-135	1	30							
m&p-Xylene	ug/L	ND	100	100	101	103	101	103	75-131	1	30							
Methyl-tert-butyl ether	ug/L	ND	50	50	49.8	49.7	100	99	71-137	.09	30							
Methylene Chloride	ug/L	ND	50	50	49.8	49.9	100	100	57-134	.1	30							
n-Butylbenzene	ug/L	ND	50	50	51.7	54.0	103	108	74-139	4	30							
n-Propylbenzene	ug/L	ND	50	50	52.6	54.6	105	109	75-137	4	30							
Naphthalene	ug/L	ND	50	50	48.1	49.6	96	99	75-129	3	30							
o-Xylene	ug/L	ND	50	50	49.8	51.4	100	103	75-128	3	30							
p-Isopropyltoluene	ug/L	ND	50	50	51.1	53.3	102	107	75-135	4	30							
sec-Butylbenzene	ug/L	ND	50	50	52.6	54.6	105	109	75-137	4	30							
Styrene	ug/L	ND	50	50	50.7	50.9	101	102	75-126	.5	30							
tert-Butylbenzene	ug/L	ND	50	50	50.1	52.2	100	104	75-133	4	30							
Tetrachloroethene	ug/L	12.0	50	50	64.6	64.6	105	105	75-138	.002	30							
Tetrahydrofuran	ug/L	ND	500	500	488	486	98	97	74-128	.5	30							
Toluene	ug/L	ND	50	50	51.7	53.2	103	106	75-131	3	30							
trans-1,2-Dichloroethene	ug/L	ND	50	50	52.9	56.5	106	113	75-140	7	30							
trans-1,3-Dichloropropene	ug/L	ND	50	50	51.6	51.7	103	103	75-129	.08	30							
Trichloroethene	ug/L	1.0	50	50	53.4	54.3	105	106	75-132	2	30							
Trichlorofluoromethane	ug/L	ND	50	50	57.9	58.3	116	117	75-150	.7	30							
Vinyl chloride	ug/L	ND	50	50	56.3	57.1	113	114	75-150	1	30							
Xylene (Total)	ug/L	ND	150	150	151	154	101	103	75-129	2	30							
1,2-Dichloroethane-d4 (S)	%						101	101	75-125									
4-Bromofluorobenzene (S)	%						101	103	75-125									
Dibromofluoromethane (S)	%						101	101	75-125									
Toluene-d8 (S)	%						103	103	75-125									

QUALITY CONTROL DATA

Project: City of Rochester CRC

Pace Project No.: 10206929

QC Batch: MSV/21614 Analysis Method: EPA 8260
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
 Associated Lab Samples: 10206929002, 10206929003, 10206929004

METHOD BLANK: 1299694 Matrix: Water

Associated Lab Samples: 10206929002, 10206929003, 10206929004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	10/01/12 19:59	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/01/12 19:59	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/01/12 19:59	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/01/12 19:59	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	10/01/12 19:59	
1,1-Dichloroethane	ug/L	ND	1.0	10/01/12 19:59	
1,1-Dichloroethene	ug/L	ND	1.0	10/01/12 19:59	
1,1-Dichloropropene	ug/L	ND	1.0	10/01/12 19:59	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	10/01/12 19:59	
1,2,3-Trichloropropane	ug/L	ND	4.0	10/01/12 19:59	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	10/01/12 19:59	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	10/01/12 19:59	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	10/01/12 19:59	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/01/12 19:59	
1,2-Dichlorobenzene	ug/L	ND	1.0	10/01/12 19:59	
1,2-Dichloroethane	ug/L	ND	1.0	10/01/12 19:59	
1,2-Dichloropropane	ug/L	ND	4.0	10/01/12 19:59	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	10/01/12 19:59	
1,3-Dichlorobenzene	ug/L	ND	1.0	10/01/12 19:59	
1,3-Dichloropropane	ug/L	ND	1.0	10/01/12 19:59	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/01/12 19:59	
2,2-Dichloropropane	ug/L	ND	4.0	10/01/12 19:59	
2-Butanone (MEK)	ug/L	ND	4.0	10/01/12 19:59	
2-Chlorotoluene	ug/L	ND	1.0	10/01/12 19:59	
4-Chlorotoluene	ug/L	ND	1.0	10/01/12 19:59	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	10/01/12 19:59	
Acetone	ug/L	ND	25.0	10/01/12 19:59	
Allyl chloride	ug/L	ND	4.0	10/01/12 19:59	
Benzene	ug/L	ND	1.0	10/01/12 19:59	
Bromobenzene	ug/L	ND	1.0	10/01/12 19:59	
Bromochloromethane	ug/L	ND	1.0	10/01/12 19:59	
Bromodichloromethane	ug/L	ND	1.0	10/01/12 19:59	
Bromoform	ug/L	ND	4.0	10/01/12 19:59	
Bromomethane	ug/L	ND	4.0	10/01/12 19:59	
Carbon tetrachloride	ug/L	ND	1.0	10/01/12 19:59	
Chlorobenzene	ug/L	ND	1.0	10/01/12 19:59	
Chloroethane	ug/L	ND	1.0	10/01/12 19:59	
Chloroform	ug/L	ND	1.0	10/01/12 19:59	
Chloromethane	ug/L	ND	4.0	10/01/12 19:59	
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/01/12 19:59	
cis-1,3-Dichloropropene	ug/L	ND	4.0	10/01/12 19:59	
Dibromochloromethane	ug/L	ND	1.0	10/01/12 19:59	
Dibromomethane	ug/L	ND	4.0	10/01/12 19:59	

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REPORT OF LABORATORY ANALYSIS

Page 24 of 32

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QUALITY CONTROL DATA

Project: City of Rochester CRC

Pace Project No.: 10206929

METHOD BLANK: 1299694

Matrix: Water

Associated Lab Samples: 10206929002, 10206929003, 10206929004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	10/01/12 19:59	
Dichlorofluoromethane	ug/L	ND	1.0	10/01/12 19:59	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	10/01/12 19:59	
Ethylbenzene	ug/L	ND	1.0	10/01/12 19:59	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	10/01/12 19:59	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	10/01/12 19:59	
m&p-Xylene	ug/L	ND	2.0	10/01/12 19:59	
Methyl-tert-butyl ether	ug/L	ND	1.0	10/01/12 19:59	
Methylene Chloride	ug/L	ND	4.0	10/01/12 19:59	
n-Butylbenzene	ug/L	ND	1.0	10/01/12 19:59	
n-Propylbenzene	ug/L	ND	1.0	10/01/12 19:59	
Naphthalene	ug/L	ND	4.0	10/01/12 19:59	
o-Xylene	ug/L	ND	1.0	10/01/12 19:59	
p-Isopropyltoluene	ug/L	ND	1.0	10/01/12 19:59	
sec-Butylbenzene	ug/L	ND	1.0	10/01/12 19:59	
Styrene	ug/L	ND	1.0	10/01/12 19:59	
tert-Butylbenzene	ug/L	ND	1.0	10/01/12 19:59	
Tetrachloroethene	ug/L	ND	1.0	10/01/12 19:59	
Tetrahydrofuran	ug/L	ND	10.0	10/01/12 19:59	
Toluene	ug/L	ND	1.0	10/01/12 19:59	
trans-1,2-Dichloroethene	ug/L	ND	1.0	10/01/12 19:59	
trans-1,3-Dichloropropene	ug/L	ND	4.0	10/01/12 19:59	
Trichloroethene	ug/L	ND	1.0	10/01/12 19:59	
Trichlorofluoromethane	ug/L	ND	1.0	10/01/12 19:59	
Vinyl chloride	ug/L	ND	0.40	10/01/12 19:59	
Xylene (Total)	ug/L	ND	3.0	10/01/12 19:59	
1,2-Dichloroethane-d4 (S)	%	101	75-125	10/01/12 19:59	
4-Bromofluorobenzene (S)	%	101	75-125	10/01/12 19:59	
Dibromofluoromethane (S)	%	100	75-125	10/01/12 19:59	
Toluene-d8 (S)	%	98	75-125	10/01/12 19:59	

LABORATORY CONTROL SAMPLE: 1299695

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	46.4	93	75-125	
1,1,1-Trichloroethane	ug/L	50	44.6	89	73-128	
1,1,2,2-Tetrachloroethane	ug/L	50	44.3	89	75-125	
1,1,2-Trichloroethane	ug/L	50	44.6	89	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	42.6	85	63-125	
1,1-Dichloroethane	ug/L	50	45.5	91	72-126	
1,1-Dichloroethene	ug/L	50	41.9	84	73-129	
1,1-Dichloropropene	ug/L	50	43.4	87	72-128	
1,2,3-Trichlorobenzene	ug/L	50	46.9	94	73-125	
1,2,3-Trichloropropane	ug/L	50	46.8	94	75-125	
1,2,4-Trichlorobenzene	ug/L	50	46.1	92	74-125	

Date: 10/05/2012 02:22 PM

REPORT OF LABORATORY ANALYSIS

Page 25 of 32

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QUALITY CONTROL DATA

Project: City of Rochester CRC

Pace Project No.: 10206929

LABORATORY CONTROL SAMPLE: 1299695

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	50	45.5	91	75-126	
1,2-Dibromo-3-chloropropane	ug/L	50	45.7	91	75-125	
1,2-Dibromoethane (EDB)	ug/L	50	45.8	92	75-125	
1,2-Dichlorobenzene	ug/L	50	47.0	94	75-125	
1,2-Dichloroethane	ug/L	50	48.0	96	75-132	
1,2-Dichloropropane	ug/L	50	47.2	94	75-125	
1,3,5-Trimethylbenzene	ug/L	50	44.5	89	75-126	
1,3-Dichlorobenzene	ug/L	50	45.6	91	75-125	
1,3-Dichloropropane	ug/L	50	47.0	94	75-125	
1,4-Dichlorobenzene	ug/L	50	45.9	92	75-125	
2,2-Dichloropropane	ug/L	50	43.1	86	72-133	
2-Butanone (MEK)	ug/L	50	44.3	89	52-138	
2-Chlorotoluene	ug/L	50	44.4	89	74-125	
4-Chlorotoluene	ug/L	50	45.0	90	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	50	45.6	91	75-125	
Acetone	ug/L	125	131	104	30-150	
Allyl chloride	ug/L	50	44.2	88	75-132	
Benzene	ug/L	50	43.5	87	75-132	
Bromobenzene	ug/L	50	46.3	93	75-125	
Bromochloromethane	ug/L	50	49.0	98	75-126	
Bromodichloromethane	ug/L	50	46.4	93	75-125	
Bromoform	ug/L	50	45.6	91	75-125	
Bromomethane	ug/L	50	42.7	85	52-150	
Carbon tetrachloride	ug/L	50	44.9	90	73-132	
Chlorobenzene	ug/L	50	45.0	90	75-125	
Chloroethane	ug/L	50	43.8	88	75-143	
Chloroform	ug/L	50	44.8	90	75-128	
Chloromethane	ug/L	50	40.0	80	56-136	
cis-1,2-Dichloroethene	ug/L	50	45.6	91	75-125	
cis-1,3-Dichloropropene	ug/L	50	46.1	92	75-125	
Dibromochloromethane	ug/L	50	47.0	94	75-125	
Dibromomethane	ug/L	50	46.9	94	75-125	
Dichlorodifluoromethane	ug/L	50	35.4	71	50-137	
Dichlorofluoromethane	ug/L	50	45.9	92	68-133	
Diethyl ether (Ethyl ether)	ug/L	50	47.6	95	75-125	
Ethylbenzene	ug/L	50	42.8	86	75-125	
Hexachloro-1,3-butadiene	ug/L	25	22.0	88	57-132	
Isopropylbenzene (Cumene)	ug/L	50	45.0	90	75-125	
m&p-Xylene	ug/L	100	88.2	88	75-125	
Methyl-tert-butyl ether	ug/L	50	46.2	92	74-130	
Methylene Chloride	ug/L	50	44.3	89	62-127	
n-Butylbenzene	ug/L	50	44.9	90	68-128	
n-Propylbenzene	ug/L	50	44.7	89	74-125	
Naphthalene	ug/L	50	47.3	95	75-125	
o-Xylene	ug/L	50	44.6	89	75-125	
p-Isopropyltoluene	ug/L	50	44.6	89	75-125	
sec-Butylbenzene	ug/L	50	44.0	88	71-125	
Styrene	ug/L	50	45.0	90	75-125	

Date: 10/05/2012 02:22 PM

REPORT OF LABORATORY ANALYSIS

Page 26 of 32

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QUALITY CONTROL DATA

Project: City of Rochester CRC

Pace Project No.: 10206929

LABORATORY CONTROL SAMPLE: 1299695

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	45.2	90	73-125	
Tetrachloroethene	ug/L	50	42.7	85	75-125	
Tetrahydrofuran	ug/L	500	453	91	75-128	
Toluene	ug/L	50	43.1	86	75-125	
trans-1,2-Dichloroethene	ug/L	50	43.2	86	75-125	
trans-1,3-Dichloropropene	ug/L	50	45.9	92	75-125	
Trichloroethene	ug/L	50	43.5	87	75-125	
Trichlorofluoromethane	ug/L	50	43.8	88	64-139	
Vinyl chloride	ug/L	50	42.0	84	75-150	
Xylene (Total)	ug/L	150	133	89	75-125	
1,2-Dichloroethane-d4 (S)	%			99	75-125	
4-Bromofluorobenzene (S)	%			99	75-125	
Dibromofluoromethane (S)	%			101	75-125	
Toluene-d8 (S)	%			98	75-125	

MATRIX SPIKE SAMPLE: 1299697

Parameter	Units	10207133025 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	50	49.4	99	75-125	
1,1,1-Trichloroethane	ug/L	ND	50	52.5	105	75-145	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	45.9	92	75-125	
1,1,2-Trichloroethane	ug/L	ND	50	46.7	93	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	60.4	121	75-150	
1,1-Dichloroethane	ug/L	ND	50	51.6	103	75-139	
1,1-Dichloroethene	ug/L	ND	50	51.4	103	75-148	
1,1-Dichloropropene	ug/L	ND	50	52.2	104	75-148	
1,2,3-Trichlorobenzene	ug/L	ND	50	49.7	99	75-127	
1,2,3-Trichloropropane	ug/L	ND	50	49.7	99	75-125	
1,2,4-Trichlorobenzene	ug/L	ND	50	49.2	98	75-126	
1,2,4-Trimethylbenzene	ug/L	ND	50	50.1	99	75-135	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	47.2	94	75-125	
1,2-Dibromoethane (EDB)	ug/L	ND	50	47.8	96	75-125	
1,2-Dichlorobenzene	ug/L	ND	50	49.7	99	75-125	
1,2-Dichloroethane	ug/L	ND	50	50.0	100	75-139	
1,2-Dichloropropane	ug/L	ND	50	50.8	102	75-131	
1,3,5-Trimethylbenzene	ug/L	ND	50	49.0	98	75-134	
1,3-Dichlorobenzene	ug/L	ND	50	49.1	98	75-125	
1,3-Dichloropropane	ug/L	ND	50	49.1	98	75-127	
1,4-Dichlorobenzene	ug/L	ND	50	48.8	98	75-125	
2,2-Dichloropropane	ug/L	ND	50	50.7	101	75-150	
2-Butanone (MEK)	ug/L	ND	50	45.8	92	50-138	
2-Chlorotoluene	ug/L	ND	50	49.1	98	75-134	
4-Chlorotoluene	ug/L	ND	50	49.6	99	75-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	46.7	93	75-125	
Acetone	ug/L	ND	125	136	109	30-142	
Allyl chloride	ug/L	ND	50	51.7	103	75-146	
Benzene	ug/L	ND	50	49.5	99	75-146	

Date: 10/05/2012 02:22 PM

REPORT OF LABORATORY ANALYSIS

Page 27 of 32

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QUALITY CONTROL DATA

Project: City of Rochester CRC

Pace Project No.: 10206929

MATRIX SPIKE SAMPLE:		1299697						
Parameter	Units	10207133025 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers	
Bromobenzene	ug/L	ND	50	49.7	99	75-125		
Bromochloromethane	ug/L	ND	50	52.3	105	75-129		
Bromodichloromethane	ug/L	ND	50	49.3	99	75-130		
Bromoform	ug/L	ND	50	47.2	94	75-125		
Bromomethane	ug/L	ND	50	51.4	103	52-150		
Carbon tetrachloride	ug/L	ND	50	54.4	109	75-150		
Chlorobenzene	ug/L	ND	50	49.5	99	75-127		
Chloroethane	ug/L	ND	50	47.8	96	75-146		
Chloroform	ug/L	ND	50	49.3	99	75-137		
Chloromethane	ug/L	ND	50	47.2	94	64-150		
cis-1,2-Dichloroethene	ug/L	19.3	50	69.9	101	75-139		
cis-1,3-Dichloropropene	ug/L	ND	50	49.1	98	75-129		
Dibromochloromethane	ug/L	ND	50	48.8	98	75-125		
Dibromomethane	ug/L	ND	50	49.8	100	75-126		
Dichlorodifluoromethane	ug/L	ND	50	48.6	97	75-150		
Dichlorofluoromethane	ug/L	ND	50	52.5	105	75-143		
Diethyl ether (Ethyl ether)	ug/L	ND	50	49.8	100	71-133		
Ethylbenzene	ug/L	ND	50	47.8	96	75-132		
Hexachloro-1,3-butadiene	ug/L	ND	25	26.4	106	62-147		
Isopropylbenzene (Cumene)	ug/L	ND	50	50.9	101	75-135		
m&p-Xylene	ug/L	ND	100	97.2	97	75-131		
Methyl-tert-butyl ether	ug/L	ND	50	48.0	96	71-137		
Methylene Chloride	ug/L	ND	50	48.6	97	57-134		
n-Butylbenzene	ug/L	ND	50	51.5	103	74-139		
n-Propylbenzene	ug/L	ND	50	50.9	102	75-137		
Naphthalene	ug/L	ND	50	49.5	99	75-129		
o-Xylene	ug/L	ND	50	49.1	98	75-128		
p-Isopropyltoluene	ug/L	ND	50	50.2	100	75-135		
sec-Butylbenzene	ug/L	ND	50	51.4	102	75-137		
Styrene	ug/L	ND	50	48.7	97	75-126		
tert-Butylbenzene	ug/L	ND	50	51.1	102	75-133		
Tetrachloroethene	ug/L	4.9	50	55.4	101	75-138		
Tetrahydrofuran	ug/L	ND	500	458	92	74-128		
Toluene	ug/L	ND	50	48.6	97	75-131		
trans-1,2-Dichloroethene	ug/L	ND	50	50.7	101	75-140		
trans-1,3-Dichloropropene	ug/L	ND	50	48.4	97	75-129		
Trichloroethene	ug/L	8.8	50	59.5	101	75-132		
Trichlorofluoromethane	ug/L	ND	50	54.5	109	75-150		
Vinyl chloride	ug/L	ND	50	49.3	99	75-150		
Xylene (Total)	ug/L	ND	150	146	98	75-129		
1,2-Dichloroethane-d4 (S)	%				100	75-125		
4-Bromofluorobenzene (S)	%				101	75-125		
Dibromofluoromethane (S)	%				100	75-125		
Toluene-d8 (S)	%				98	75-125		

QUALITY CONTROL DATA

Project: City of Rochester CRC

Pace Project No.: 10206929

SAMPLE DUPLICATE: 1299698

Parameter	Units	10207133026 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	19.4	19.8	2	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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REPORT OF LABORATORY ANALYSIS

Page 29 of 32

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QUALITY CONTROL DATA

Project: City of Rochester CRC

Pace Project No.: 10206929

SAMPLE DUPLICATE: 1299698

Parameter	Units	10207133026 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	36.6	37.6	3	30	
Tetrahydrofuran	ug/L	ND	ND		30	
Toluene	ug/L	ND	.18J		30	
trans-1,2-Dichloroethene	ug/L	ND	.44J		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	15.5	15.5	.3	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)	%	99	102	3		
4-Bromofluorobenzene (S)	%	102	100	2		
Dibromofluoromethane (S)	%	100	100	.2		
Toluene-d8 (S)	%	99	99	.5		

QUALIFIERS

Project: City of Rochester CRC

Pace Project No.: 10206929

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.

PRL - Pace Reporting Limit.

RL - Reporting 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 TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: City of Rochester CRC

Pace Project No.: 10206929

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10206929001	DPE - 1	EPA 8260	MSV/21593		
10206929002	DPE - 2	EPA 8260	MSV/21614		
10206929003	DPE - 3	EPA 8260	MSV/21614		
10206929004	DPE - 4	EPA 8260	MSV/21614		
10206929005	DPE - 5	EPA 8260	MSV/21593		
10206929006	DPE - 6	EPA 8260	MSV/21593		
10206929007	DPE - 7	EPA 8260	MSV/21593		



CHAIN-OF-CUSTODY / Analytical Request Document

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

102060129

Page: 1 of 2

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

SITE SA PV P

LOCATION CH SC VI THER

Filtered (Y/N)

Requested Analytical

EPA 8260 VOCs

Pace Project Number

Lab I.D.

001
002
003
004
005
006
007

Section C

Invoice Information:

Attention: Jason Stramstad

Company Name: Landmark Environmental, LLC

Address: 2042 W. 98th St., Bloomington, MN 55431

Pace Quote Reference:

Pace Project Manager: Carolynne Trout

Project Profile #:

COLLECTED

SAMPLE TEMP AT COLLECTION

OF CONTAINERS

Relinquished by / Affiliation
Date
Time

Accepted by / Affiliation
Date
Time

Sample Conditions
Temp in °C

Received on

Sealed Cooler

Y/N

Y/N

Y/N

Y/N

Y/N

Y/N

Y/N

Y/N

Section D

Required Client Information

Report To: Jason Stramstad

Copy To: Eric Gabrielson

Purchase Order No.:

Project Name: City of Rochester

Project Number: CRC

Valid Matrix Codes

MATRIX CODE

DRINKING WATER

WASTE WATER

PRODUCT

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

Requested Due Date/TAT: Normal

Matrix Code

Code

DRINKING WATER

WASTE WATER

Section B

Required Project Information:

Report To: Jason Stramstad

Copy To: Eric Gabrielson

Purchase Order No.:

Project Name: City of Rochester

Project Number: CRC

Valid Matrix Codes

MATRIX CODE

DRINKING WATER

WASTE WATER

PRODUCT

Section E

Additional Comments:

Collection date 9/26 per G. Gabrielson

Signature

Date

Time

Relinquished by / Affiliation

Accepted by / Affiliation

Sample Conditions

Temp in °C

Received on

Sealed Cooler

Section F

Sampler Name and Signature

Print Name of Sampler: Eric Gabrielson

Signature of Sampler: [Signature]

Date Signed (MM/DD/YY): 9/28/12

Relinquished by / Affiliation

Accepted by / Affiliation

Sample Conditions

Temp in °C

Received on

Sealed Cooler

Y/N

Condition on Receipt

Client Name: Landmark

Document Name: Sample Condition Upon Receipt Form
Document No.: F-MN-L-213-rev.04

Document Revised: Page 1 of
Issuing Authority: Pace Minnesota Que

Courier: Fed Ex Commercial UPS Pace USPS Other: Client

Tracking Number: _____

Project #: _____

WO#: 102069



Custody Seal on Cooler/Box Present? Yes No

Packing Material: Bubble Wrap Bubble Bags Other: _____

Thermometer Used: 888A912167504 80512447 None

Cooler Temperature: 4.3
Temp should be above freezing to 6°C

Seals Intact? Yes No Other: _____

Optional: Proj. Due Date _____

Chain of Custody Present? Yes No

Chain of Custody Filled Out? Yes No

Chain of Custody Relinquished? Yes No

Sampler Name and/or Signature on COC? Yes No

Samples Arrived within Hold Time? Yes No N/A

Short Hold Time Analysis (<72 hr)? 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

Filtered Volume Received for Dissolved Tests? Yes No N/A

Sample Labels Match COC? Yes No N/A

-Includes Date/Time/ID/Analysis Matrix? Yes No N/A

All containers needing acid/base preservation have been checked? Yes No N/A

All containers needing preservation have compliance with EPA recommendation? Yes No N/A
(HNO₃, H₂SO₄, HCl<2; NaOH>12)
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)

Headspace in VOA Vials (>6mm)? Yes No N/A

Trip Blank Present? Yes No N/A

Trip Blank Custody Seals Present? Yes No N/A

Pace Trip Blank Lot # (if purchased): 081712-1

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: Eric Gabrielsen

Comments/Resolution: call client 9/16

Date/Time: 9/28/12 Field Data Required? Yes No

Project Manager Review: CP
Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina Department of Environment and Natural Resources.

Date: 9/28/12

October 04, 2012

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

RE: Project: City of Rochester CRC
Pace Project No.: 10206930

Dear Mr. Skramstad:

Enclosed are the analytical results for sample(s) received by the laboratory on September 27, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted 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: City of Rochester CRC

Pace Project No.: 10206930

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

Colorado Certification #Pace

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: Pace

Florida/NELAP Certification #: E87605

Georgia Certification #: 959

Hawaii Certification #Pace

Idaho Certification #: MN00064

Illinois Certification #: 200011

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 York Certification #: 11647

North Carolina Certification #: 530

North Dakota Certification #: R-036

North Dakota Certification #: R-036A

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Oregon Certification #: MN300001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Tennessee Certification #: 02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Virginia/DCLS Certification #: 002521

Virginia/VELAP Certification #: 460163

Washington Certification #: C754

West Virginia Certification #: 382

Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

Page 2 of 32

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SAMPLE SUMMARY

Project: City of Rochester CRC

Pace Project No.: 10206930

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10206930001	MW - 14	Water	09/26/12 15:20	09/27/12 16:40
10206930002	MW - 15	Water	09/26/12 15:40	09/27/12 16:40
10206930003	MW - 16	Water	09/26/12 17:20	09/27/12 16:40
10206930004	MW - 17	Water	09/26/12 16:25	09/27/12 16:40
10206930005	MW - 18	Water	09/26/12 16:10	09/27/12 16:40
10206930006	MW - 19	Water	09/26/12 14:40	09/27/12 16:40
10206930007	MW - 20	Water	09/26/12 16:45	09/27/12 16:40
10206930008	TRIP BLANKS	Water	09/26/12 00:00	09/27/12 16:40

REPORT OF LABORATORY ANALYSIS

Page 3 of 32

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SAMPLE ANALYTE COUNT

Project: City of Rochester CRC

Pace Project No.: 10206930

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10206930001	MW - 14	EPA 8260	EB2	73
10206930002	MW - 15	EPA 8260	EB2	73
10206930003	MW - 16	EPA 8260	EB2	73
10206930004	MW - 17	EPA 8260	EB2	73
10206930005	MW - 18	EPA 8260	EB2	73
10206930006	MW - 19	EPA 8260	EB2	73
10206930007	MW - 20	EPA 8260	SE	73
10206930008	TRIP BLANKS	EPA 8260	SE	73

REPORT OF LABORATORY ANALYSIS

ANALYTICAL RESULTS

Project: City of Rochester CRC

Pace Project No.: 10206930

Sample: MW - 14		Lab ID: 10206930001	Collected: 09/26/12 15:20	Received: 09/27/12 16:40	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		09/28/12 20:33	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		09/28/12 20:33	107-05-1	
Benzene	ND	ug/L	1.0	1		09/28/12 20:33	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/28/12 20:33	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		09/28/12 20:33	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/28/12 20:33	75-27-4	
Bromoform	ND	ug/L	4.0	1		09/28/12 20:33	75-25-2	
Bromomethane	ND	ug/L	4.0	1		09/28/12 20:33	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		09/28/12 20:33	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		09/28/12 20:33	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		09/28/12 20:33	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		09/28/12 20:33	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		09/28/12 20:33	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		09/28/12 20:33	108-90-7	
Chloroethane	ND	ug/L	1.0	1		09/28/12 20:33	75-00-3	
Chloroform	1.6	ug/L	1.0	1		09/28/12 20:33	67-66-3	
Chloromethane	ND	ug/L	4.0	1		09/28/12 20:33	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		09/28/12 20:33	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		09/28/12 20:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		09/28/12 20:33	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		09/28/12 20:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/28/12 20:33	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		09/28/12 20:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/28/12 20:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/28/12 20:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/28/12 20:33	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/28/12 20:33	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		09/28/12 20:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/28/12 20:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		09/28/12 20:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/28/12 20:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/28/12 20:33	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		09/28/12 20:33	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		09/28/12 20:33	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/28/12 20:33	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		09/28/12 20:33	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/28/12 20:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		09/28/12 20:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		09/28/12 20:33	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		09/28/12 20:33	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		09/28/12 20:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		09/28/12 20:33	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/28/12 20:33	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		09/28/12 20:33	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		09/28/12 20:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		09/28/12 20:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/28/12 20:33	1634-04-4	

Date: 10/04/2012 02:07 PM

REPORT OF LABORATORY ANALYSIS

Page 5 of 32

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ANALYTICAL RESULTS

Project: City of Rochester CRC

Pace Project No.: 10206930

Sample: MW - 14	Lab ID: 10206930001	Collected: 09/26/12 15:20	Received: 09/27/12 16:40	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		09/28/12 20:33	91-20-3	
n-Propylbenzene	ND ug/L		1.0	1		09/28/12 20:33	103-65-1	
Styrene	ND ug/L		1.0	1		09/28/12 20:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		09/28/12 20:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		09/28/12 20:33	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		09/28/12 20:33	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	1		09/28/12 20:33	109-99-9	
Toluene	ND ug/L		1.0	1		09/28/12 20:33	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		09/28/12 20:33	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		09/28/12 20:33	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		09/28/12 20:33	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		09/28/12 20:33	79-00-5	
Trichloroethene	ND ug/L		1.0	1		09/28/12 20:33	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		09/28/12 20:33	75-69-4	
1,2,3-Trichloropropane	ND ug/L		4.0	1		09/28/12 20:33	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	1		09/28/12 20:33	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		09/28/12 20:33	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		09/28/12 20:33	108-67-8	
Vinyl chloride	ND ug/L		0.40	1		09/28/12 20:33	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		09/28/12 20:33	1330-20-7	
m&p-Xylene	ND ug/L		2.0	1		09/28/12 20:33	179601-23-1	
o-Xylene	ND ug/L		1.0	1		09/28/12 20:33	95-47-6	
Surrogates								
Dibromofluoromethane (S)	104 %		75-125	1		09/28/12 20:33	1868-53-7	
1,2-Dichloroethane-d4 (S)	106 %		75-125	1		09/28/12 20:33	17060-07-0	
Toluene-d8 (S)	101 %		75-125	1		09/28/12 20:33	2037-26-5	
4-Bromofluorobenzene (S)	102 %		75-125	1		09/28/12 20:33	460-00-4	

ANALYTICAL RESULTS

Project: City of Rochester CRC

Pace Project No.: 10206930

Sample: MW - 15		Lab ID: 10206930002	Collected: 09/26/12 15:40	Received: 09/27/12 16:40	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		09/28/12 20:49	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		09/28/12 20:49	107-05-1	
Benzene	ND	ug/L	1.0	1		09/28/12 20:49	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/28/12 20:49	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		09/28/12 20:49	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/28/12 20:49	75-27-4	
Bromoform	ND	ug/L	4.0	1		09/28/12 20:49	75-25-2	
Bromomethane	ND	ug/L	4.0	1		09/28/12 20:49	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		09/28/12 20:49	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		09/28/12 20:49	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		09/28/12 20:49	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		09/28/12 20:49	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		09/28/12 20:49	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		09/28/12 20:49	108-90-7	
Chloroethane	ND	ug/L	1.0	1		09/28/12 20:49	75-00-3	
Chloroform	ND	ug/L	1.0	1		09/28/12 20:49	67-66-3	
Chloromethane	ND	ug/L	4.0	1		09/28/12 20:49	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		09/28/12 20:49	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		09/28/12 20:49	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		09/28/12 20:49	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		09/28/12 20:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/28/12 20:49	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		09/28/12 20:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/28/12 20:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/28/12 20:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/28/12 20:49	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/28/12 20:49	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		09/28/12 20:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/28/12 20:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		09/28/12 20:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/28/12 20:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/28/12 20:49	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		09/28/12 20:49	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		09/28/12 20:49	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/28/12 20:49	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		09/28/12 20:49	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/28/12 20:49	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		09/28/12 20:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		09/28/12 20:49	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		09/28/12 20:49	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		09/28/12 20:49	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		09/28/12 20:49	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/28/12 20:49	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		09/28/12 20:49	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		09/28/12 20:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		09/28/12 20:49	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/28/12 20:49	1634-04-4	

Date: 10/04/2012 02:07 PM

REPORT OF LABORATORY ANALYSIS

Page 7 of 32

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ANALYTICAL RESULTS

Project: City of Rochester CRC

Pace Project No.: 10206930

Sample: MW - 15		Lab ID: 10206930002	Collected: 09/26/12 15:40	Received: 09/27/12 16:40	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		09/28/12 20:49	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		09/28/12 20:49	103-65-1	
Styrene	ND	ug/L	1.0	1		09/28/12 20:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/28/12 20:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/28/12 20:49	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		09/28/12 20:49	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		09/28/12 20:49	109-99-9	
Toluene	ND	ug/L	1.0	1		09/28/12 20:49	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/28/12 20:49	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/28/12 20:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/28/12 20:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/28/12 20:49	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		09/28/12 20:49	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/28/12 20:49	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		09/28/12 20:49	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		09/28/12 20:49	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		09/28/12 20:49	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		09/28/12 20:49	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		09/28/12 20:49	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/28/12 20:49	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		09/28/12 20:49	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		09/28/12 20:49	95-47-6	
Surrogates								
Dibromofluoromethane (S)	106 %		75-125	1		09/28/12 20:49	1868-53-7	
1,2-Dichloroethane-d4 (S)	108 %		75-125	1		09/28/12 20:49	17060-07-0	
Toluene-d8 (S)	101 %		75-125	1		09/28/12 20:49	2037-26-5	
4-Bromofluorobenzene (S)	101 %		75-125	1		09/28/12 20:49	460-00-4	

ANALYTICAL RESULTS

Project: City of Rochester CRC

Pace Project No.: 10206930

Sample: MW - 16		Lab ID: 10206930003	Collected: 09/26/12 17:20	Received: 09/27/12 16:40	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		09/28/12 21:04	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		09/28/12 21:04	107-05-1	
Benzene	ND	ug/L	1.0	1		09/28/12 21:04	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/28/12 21:04	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		09/28/12 21:04	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/28/12 21:04	75-27-4	
Bromoform	ND	ug/L	4.0	1		09/28/12 21:04	75-25-2	
Bromomethane	ND	ug/L	4.0	1		09/28/12 21:04	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		09/28/12 21:04	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		09/28/12 21:04	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		09/28/12 21:04	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		09/28/12 21:04	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		09/28/12 21:04	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		09/28/12 21:04	108-90-7	
Chloroethane	ND	ug/L	1.0	1		09/28/12 21:04	75-00-3	
Chloroform	ND	ug/L	1.0	1		09/28/12 21:04	67-66-3	
Chloromethane	ND	ug/L	4.0	1		09/28/12 21:04	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		09/28/12 21:04	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		09/28/12 21:04	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		09/28/12 21:04	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		09/28/12 21:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/28/12 21:04	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		09/28/12 21:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/28/12 21:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/28/12 21:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/28/12 21:04	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/28/12 21:04	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		09/28/12 21:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/28/12 21:04	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		09/28/12 21:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/28/12 21:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/28/12 21:04	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		09/28/12 21:04	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		09/28/12 21:04	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/28/12 21:04	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		09/28/12 21:04	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/28/12 21:04	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		09/28/12 21:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		09/28/12 21:04	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		09/28/12 21:04	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		09/28/12 21:04	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		09/28/12 21:04	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/28/12 21:04	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		09/28/12 21:04	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		09/28/12 21:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		09/28/12 21:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/28/12 21:04	1634-04-4	

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REPORT OF LABORATORY ANALYSIS

Page 9 of 32

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ANALYTICAL RESULTS

Project: City of Rochester CRC

Pace Project No.: 10206930

Sample: MW - 16		Lab ID: 10206930003	Collected: 09/26/12 17:20	Received: 09/27/12 16:40	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		09/28/12 21:04	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		09/28/12 21:04	103-65-1	
Styrene	ND	ug/L	1.0	1		09/28/12 21:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/28/12 21:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/28/12 21:04	79-34-5	
Tetrachloroethene	21.8	ug/L	1.0	1		09/28/12 21:04	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		09/28/12 21:04	109-99-9	
Toluene	ND	ug/L	1.0	1		09/28/12 21:04	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/28/12 21:04	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/28/12 21:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/28/12 21:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/28/12 21:04	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		09/28/12 21:04	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/28/12 21:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		09/28/12 21:04	96-18-4	
1,1,2-Trichlorotrifluoroethane	1.3	ug/L	1.0	1		09/28/12 21:04	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		09/28/12 21:04	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		09/28/12 21:04	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		09/28/12 21:04	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/28/12 21:04	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		09/28/12 21:04	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		09/28/12 21:04	95-47-6	
Surrogates								
Dibromofluoromethane (S)	106	%	75-125	1		09/28/12 21:04	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	75-125	1		09/28/12 21:04	17060-07-0	
Toluene-d8 (S)	101	%	75-125	1		09/28/12 21:04	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125	1		09/28/12 21:04	460-00-4	

ANALYTICAL RESULTS

Project: City of Rochester CRC

Pace Project No.: 10206930

Sample: MW - 17		Lab ID: 10206930004	Collected: 09/26/12 16:25	Received: 09/27/12 16:40	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		09/28/12 21:19	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		09/28/12 21:19	107-05-1	
Benzene	ND	ug/L	1.0	1		09/28/12 21:19	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/28/12 21:19	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		09/28/12 21:19	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/28/12 21:19	75-27-4	
Bromoform	ND	ug/L	4.0	1		09/28/12 21:19	75-25-2	
Bromomethane	ND	ug/L	4.0	1		09/28/12 21:19	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		09/28/12 21:19	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		09/28/12 21:19	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		09/28/12 21:19	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		09/28/12 21:19	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		09/28/12 21:19	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		09/28/12 21:19	108-90-7	
Chloroethane	ND	ug/L	1.0	1		09/28/12 21:19	75-00-3	
Chloroform	1.1	ug/L	1.0	1		09/28/12 21:19	67-66-3	
Chloromethane	ND	ug/L	4.0	1		09/28/12 21:19	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		09/28/12 21:19	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		09/28/12 21:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		09/28/12 21:19	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		09/28/12 21:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/28/12 21:19	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		09/28/12 21:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/28/12 21:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/28/12 21:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/28/12 21:19	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/28/12 21:19	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		09/28/12 21:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/28/12 21:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		09/28/12 21:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/28/12 21:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/28/12 21:19	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		09/28/12 21:19	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		09/28/12 21:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/28/12 21:19	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		09/28/12 21:19	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/28/12 21:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		09/28/12 21:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		09/28/12 21:19	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		09/28/12 21:19	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		09/28/12 21:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		09/28/12 21:19	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/28/12 21:19	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		09/28/12 21:19	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		09/28/12 21:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		09/28/12 21:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/28/12 21:19	1634-04-4	

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REPORT OF LABORATORY ANALYSIS

Page 11 of 32

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ANALYTICAL RESULTS

Project: City of Rochester CRC

Pace Project No.: 10206930

Sample: MW - 17		Lab ID: 10206930004	Collected: 09/26/12 16:25	Received: 09/27/12 16:40	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		09/28/12 21:19	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		09/28/12 21:19	103-65-1	
Styrene	ND	ug/L	1.0	1		09/28/12 21:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/28/12 21:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/28/12 21:19	79-34-5	
Tetrachloroethene	23.3	ug/L	1.0	1		09/28/12 21:19	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		09/28/12 21:19	109-99-9	
Toluene	ND	ug/L	1.0	1		09/28/12 21:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/28/12 21:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/28/12 21:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/28/12 21:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/28/12 21:19	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		09/28/12 21:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/28/12 21:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		09/28/12 21:19	96-18-4	
1,1,2-Trichlorotrifluoroethane	2.0	ug/L	1.0	1		09/28/12 21:19	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		09/28/12 21:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		09/28/12 21:19	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		09/28/12 21:19	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/28/12 21:19	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		09/28/12 21:19	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		09/28/12 21:19	95-47-6	
Surrogates								
Dibromofluoromethane (S)	104	%	75-125	1		09/28/12 21:19	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	75-125	1		09/28/12 21:19	17060-07-0	
Toluene-d8 (S)	102	%	75-125	1		09/28/12 21:19	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125	1		09/28/12 21:19	460-00-4	

ANALYTICAL RESULTS

Project: City of Rochester CRC

Pace Project No.: 10206930

Sample: MW - 18		Lab ID: 10206930005	Collected: 09/26/12 16:10	Received: 09/27/12 16:40	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		09/28/12 21:34	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		09/28/12 21:34	107-05-1	
Benzene	ND	ug/L	1.0	1		09/28/12 21:34	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/28/12 21:34	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		09/28/12 21:34	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/28/12 21:34	75-27-4	
Bromoform	ND	ug/L	4.0	1		09/28/12 21:34	75-25-2	
Bromomethane	ND	ug/L	4.0	1		09/28/12 21:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		09/28/12 21:34	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		09/28/12 21:34	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		09/28/12 21:34	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		09/28/12 21:34	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		09/28/12 21:34	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		09/28/12 21:34	108-90-7	
Chloroethane	ND	ug/L	1.0	1		09/28/12 21:34	75-00-3	
Chloroform	ND	ug/L	1.0	1		09/28/12 21:34	67-66-3	
Chloromethane	ND	ug/L	4.0	1		09/28/12 21:34	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		09/28/12 21:34	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		09/28/12 21:34	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		09/28/12 21:34	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		09/28/12 21:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/28/12 21:34	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		09/28/12 21:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/28/12 21:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/28/12 21:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/28/12 21:34	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/28/12 21:34	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		09/28/12 21:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/28/12 21:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		09/28/12 21:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/28/12 21:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/28/12 21:34	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		09/28/12 21:34	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		09/28/12 21:34	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/28/12 21:34	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		09/28/12 21:34	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/28/12 21:34	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		09/28/12 21:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		09/28/12 21:34	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		09/28/12 21:34	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		09/28/12 21:34	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		09/28/12 21:34	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/28/12 21:34	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		09/28/12 21:34	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		09/28/12 21:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		09/28/12 21:34	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/28/12 21:34	1634-04-4	

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REPORT OF LABORATORY ANALYSIS

Page 13 of 32

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ANALYTICAL RESULTS

Project: City of Rochester CRC

Pace Project No.: 10206930

Sample: MW - 18		Lab ID: 10206930005	Collected: 09/26/12 16:10	Received: 09/27/12 16:40	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		09/28/12 21:34	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		09/28/12 21:34	103-65-1	
Styrene	ND	ug/L	1.0	1		09/28/12 21:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/28/12 21:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/28/12 21:34	79-34-5	
Tetrachloroethene	1.8	ug/L	1.0	1		09/28/12 21:34	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		09/28/12 21:34	109-99-9	
Toluene	ND	ug/L	1.0	1		09/28/12 21:34	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/28/12 21:34	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/28/12 21:34	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/28/12 21:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/28/12 21:34	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		09/28/12 21:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/28/12 21:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		09/28/12 21:34	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		09/28/12 21:34	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		09/28/12 21:34	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		09/28/12 21:34	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		09/28/12 21:34	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/28/12 21:34	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		09/28/12 21:34	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		09/28/12 21:34	95-47-6	
Surrogates								
Dibromofluoromethane (S)	105 %		75-125	1		09/28/12 21:34	1868-53-7	
1,2-Dichloroethane-d4 (S)	107 %		75-125	1		09/28/12 21:34	17060-07-0	
Toluene-d8 (S)	102 %		75-125	1		09/28/12 21:34	2037-26-5	
4-Bromofluorobenzene (S)	101 %		75-125	1		09/28/12 21:34	460-00-4	

ANALYTICAL RESULTS

Project: City of Rochester CRC

Pace Project No.: 10206930

Sample: MW - 19		Lab ID: 10206930006	Collected: 09/26/12 14:40	Received: 09/27/12 16:40	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		09/28/12 21:50	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		09/28/12 21:50	107-05-1	
Benzene	ND	ug/L	1.0	1		09/28/12 21:50	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/28/12 21:50	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		09/28/12 21:50	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/28/12 21:50	75-27-4	
Bromoform	ND	ug/L	4.0	1		09/28/12 21:50	75-25-2	
Bromomethane	ND	ug/L	4.0	1		09/28/12 21:50	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		09/28/12 21:50	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		09/28/12 21:50	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		09/28/12 21:50	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		09/28/12 21:50	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		09/28/12 21:50	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		09/28/12 21:50	108-90-7	
Chloroethane	ND	ug/L	1.0	1		09/28/12 21:50	75-00-3	
Chloroform	ND	ug/L	1.0	1		09/28/12 21:50	67-66-3	
Chloromethane	ND	ug/L	4.0	1		09/28/12 21:50	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		09/28/12 21:50	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		09/28/12 21:50	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		09/28/12 21:50	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		09/28/12 21:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/28/12 21:50	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		09/28/12 21:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/28/12 21:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/28/12 21:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/28/12 21:50	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/28/12 21:50	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		09/28/12 21:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/28/12 21:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		09/28/12 21:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/28/12 21:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/28/12 21:50	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		09/28/12 21:50	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		09/28/12 21:50	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/28/12 21:50	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		09/28/12 21:50	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/28/12 21:50	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		09/28/12 21:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		09/28/12 21:50	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		09/28/12 21:50	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		09/28/12 21:50	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		09/28/12 21:50	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/28/12 21:50	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		09/28/12 21:50	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		09/28/12 21:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		09/28/12 21:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/28/12 21:50	1634-04-4	

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REPORT OF LABORATORY ANALYSIS

Page 15 of 32

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ANALYTICAL RESULTS

Project: City of Rochester CRC

Pace Project No.: 10206930

Sample: MW - 19		Lab ID: 10206930006	Collected: 09/26/12 14:40	Received: 09/27/12 16:40	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		09/28/12 21:50	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		09/28/12 21:50	103-65-1	
Styrene	ND	ug/L	1.0	1		09/28/12 21:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/28/12 21:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/28/12 21:50	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		09/28/12 21:50	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		09/28/12 21:50	109-99-9	
Toluene	ND	ug/L	1.0	1		09/28/12 21:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/28/12 21:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/28/12 21:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/28/12 21:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/28/12 21:50	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		09/28/12 21:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/28/12 21:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		09/28/12 21:50	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		09/28/12 21:50	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		09/28/12 21:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		09/28/12 21:50	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		09/28/12 21:50	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/28/12 21:50	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		09/28/12 21:50	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		09/28/12 21:50	95-47-6	
Surrogates								
Dibromofluoromethane (S)	106 %		75-125	1		09/28/12 21:50	1868-53-7	
1,2-Dichloroethane-d4 (S)	107 %		75-125	1		09/28/12 21:50	17060-07-0	
Toluene-d8 (S)	102 %		75-125	1		09/28/12 21:50	2037-26-5	
4-Bromofluorobenzene (S)	103 %		75-125	1		09/28/12 21:50	460-00-4	

ANALYTICAL RESULTS

Project: City of Rochester CRC

Pace Project No.: 10206930

Sample: MW - 20	Lab ID: 10206930007	Collected: 09/26/12 16:45	Received: 09/27/12 16:40	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		09/29/12 01:39	67-64-1	
Allyl chloride	ND ug/L		4.0	1		09/29/12 01:39	107-05-1	
Benzene	ND ug/L		1.0	1		09/29/12 01:39	71-43-2	
Bromobenzene	ND ug/L		1.0	1		09/29/12 01:39	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		09/29/12 01:39	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		09/29/12 01:39	75-27-4	
Bromoform	ND ug/L		4.0	1		09/29/12 01:39	75-25-2	
Bromomethane	ND ug/L		4.0	1		09/29/12 01:39	74-83-9	CL
2-Butanone (MEK)	ND ug/L		4.0	1		09/29/12 01:39	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		09/29/12 01:39	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		09/29/12 01:39	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		09/29/12 01:39	98-06-6	
Carbon tetrachloride	ND ug/L		1.0	1		09/29/12 01:39	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		09/29/12 01:39	108-90-7	
Chloroethane	ND ug/L		1.0	1		09/29/12 01:39	75-00-3	
Chloroform	ND ug/L		1.0	1		09/29/12 01:39	67-66-3	
Chloromethane	ND ug/L		4.0	1		09/29/12 01:39	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	1		09/29/12 01:39	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		09/29/12 01:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	1		09/29/12 01:39	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		09/29/12 01:39	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		09/29/12 01:39	106-93-4	
Dibromomethane	ND ug/L		4.0	1		09/29/12 01:39	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		09/29/12 01:39	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		09/29/12 01:39	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		09/29/12 01:39	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		09/29/12 01:39	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		09/29/12 01:39	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		09/29/12 01:39	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		09/29/12 01:39	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		09/29/12 01:39	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		09/29/12 01:39	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	1		09/29/12 01:39	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	1		09/29/12 01:39	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		09/29/12 01:39	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	1		09/29/12 01:39	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		09/29/12 01:39	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	1		09/29/12 01:39	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	1		09/29/12 01:39	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	1		09/29/12 01:39	60-29-7	
Ethylbenzene	ND ug/L		1.0	1		09/29/12 01:39	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		09/29/12 01:39	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		09/29/12 01:39	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		09/29/12 01:39	99-87-6	
Methylene Chloride	ND ug/L		4.0	1		09/29/12 01:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		4.0	1		09/29/12 01:39	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		09/29/12 01:39	1634-04-4	

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REPORT OF LABORATORY ANALYSIS

Page 17 of 32

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ANALYTICAL RESULTS

Project: City of Rochester CRC

Pace Project No.: 10206930

Sample: MW - 20		Lab ID: 10206930007	Collected: 09/26/12 16:45	Received: 09/27/12 16:40	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		09/29/12 01:39	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		09/29/12 01:39	103-65-1	
Styrene	ND	ug/L	1.0	1		09/29/12 01:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/29/12 01:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/29/12 01:39	79-34-5	
Tetrachloroethene	17.4	ug/L	1.0	1		09/29/12 01:39	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		09/29/12 01:39	109-99-9	
Toluene	ND	ug/L	1.0	1		09/29/12 01:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/29/12 01:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/29/12 01:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/29/12 01:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/29/12 01:39	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		09/29/12 01:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/29/12 01:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		09/29/12 01:39	96-18-4	
1,1,2-Trichlorotrifluoroethane	1.3	ug/L	1.0	1		09/29/12 01:39	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		09/29/12 01:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		09/29/12 01:39	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		09/29/12 01:39	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/29/12 01:39	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		09/29/12 01:39	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		09/29/12 01:39	95-47-6	
Surrogates								
Dibromofluoromethane (S)	104 %		75-125	1		09/29/12 01:39	1868-53-7	
1,2-Dichloroethane-d4 (S)	107 %		75-125	1		09/29/12 01:39	17060-07-0	
Toluene-d8 (S)	102 %		75-125	1		09/29/12 01:39	2037-26-5	
4-Bromofluorobenzene (S)	102 %		75-125	1		09/29/12 01:39	460-00-4	

ANALYTICAL RESULTS

Project: City of Rochester CRC

Pace Project No.: 10206930

Sample: TRIP BLANKS		Lab ID: 10206930008	Collected: 09/26/12 00:00	Received: 09/27/12 16:40	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		09/29/12 01:09	67-64-1		
Allyl chloride	ND	ug/L	4.0	1		09/29/12 01:09	107-05-1		
Benzene	ND	ug/L	1.0	1		09/29/12 01:09	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		09/29/12 01:09	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		09/29/12 01:09	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		09/29/12 01:09	75-27-4		
Bromoform	ND	ug/L	4.0	1		09/29/12 01:09	75-25-2		
Bromomethane	ND	ug/L	4.0	1		09/29/12 01:09	74-83-9	CL	
2-Butanone (MEK)	ND	ug/L	4.0	1		09/29/12 01:09	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		09/29/12 01:09	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		09/29/12 01:09	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		09/29/12 01:09	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		09/29/12 01:09	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		09/29/12 01:09	108-90-7		
Chloroethane	ND	ug/L	1.0	1		09/29/12 01:09	75-00-3		
Chloroform	ND	ug/L	1.0	1		09/29/12 01:09	67-66-3		
Chloromethane	ND	ug/L	4.0	1		09/29/12 01:09	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		09/29/12 01:09	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		09/29/12 01:09	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		09/29/12 01:09	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		09/29/12 01:09	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/29/12 01:09	106-93-4		
Dibromomethane	ND	ug/L	4.0	1		09/29/12 01:09	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/29/12 01:09	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/29/12 01:09	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/29/12 01:09	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/29/12 01:09	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		09/29/12 01:09	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		09/29/12 01:09	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		09/29/12 01:09	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/29/12 01:09	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/29/12 01:09	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		09/29/12 01:09	75-43-4		
1,2-Dichloropropane	ND	ug/L	4.0	1		09/29/12 01:09	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		09/29/12 01:09	142-28-9		
2,2-Dichloropropane	ND	ug/L	4.0	1		09/29/12 01:09	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		09/29/12 01:09	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		09/29/12 01:09	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		09/29/12 01:09	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		09/29/12 01:09	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		09/29/12 01:09	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		09/29/12 01:09	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/29/12 01:09	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		09/29/12 01:09	99-87-6		
Methylene Chloride	ND	ug/L	4.0	1		09/29/12 01:09	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		09/29/12 01:09	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/29/12 01:09	1634-04-4		

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REPORT OF LABORATORY ANALYSIS

Page 19 of 32

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ANALYTICAL RESULTS

Project: City of Rochester CRC

Pace Project No.: 10206930

Sample: TRIP BLANKS		Lab ID: 10206930008	Collected: 09/26/12 00:00	Received: 09/27/12 16:40	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		09/29/12 01:09	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		09/29/12 01:09	103-65-1	
Styrene	ND	ug/L	1.0	1		09/29/12 01:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/29/12 01:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/29/12 01:09	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		09/29/12 01:09	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		09/29/12 01:09	109-99-9	
Toluene	ND	ug/L	1.0	1		09/29/12 01:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/29/12 01:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/29/12 01:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/29/12 01:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/29/12 01:09	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		09/29/12 01:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/29/12 01:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		09/29/12 01:09	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		09/29/12 01:09	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		09/29/12 01:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		09/29/12 01:09	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		09/29/12 01:09	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/29/12 01:09	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		09/29/12 01:09	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		09/29/12 01:09	95-47-6	
Surrogates								
Dibromofluoromethane (S)	104 %		75-125	1		09/29/12 01:09	1868-53-7	
1,2-Dichloroethane-d4 (S)	107 %		75-125	1		09/29/12 01:09	17060-07-0	
Toluene-d8 (S)	101 %		75-125	1		09/29/12 01:09	2037-26-5	
4-Bromofluorobenzene (S)	103 %		75-125	1		09/29/12 01:09	460-00-4	

QUALITY CONTROL DATA

Project: City of Rochester CRC

Pace Project No.: 10206930

QC Batch: MSV/21593 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 10206930001, 10206930002, 10206930003, 10206930004, 10206930005, 10206930006

METHOD BLANK: 1298038 Matrix: Water
Associated Lab Samples: 10206930001, 10206930002, 10206930003, 10206930004, 10206930005, 10206930006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	09/28/12 17:45	
1,1,1-Trichloroethane	ug/L	ND	1.0	09/28/12 17:45	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	09/28/12 17:45	
1,1,2-Trichloroethane	ug/L	ND	1.0	09/28/12 17:45	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	09/28/12 17:45	
1,1-Dichloroethane	ug/L	ND	1.0	09/28/12 17:45	
1,1-Dichloroethene	ug/L	ND	1.0	09/28/12 17:45	
1,1-Dichloropropene	ug/L	ND	1.0	09/28/12 17:45	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	09/28/12 17:45	
1,2,3-Trichloropropane	ug/L	ND	4.0	09/28/12 17:45	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	09/28/12 17:45	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	09/28/12 17:45	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	09/28/12 17:45	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	09/28/12 17:45	
1,2-Dichlorobenzene	ug/L	ND	1.0	09/28/12 17:45	
1,2-Dichloroethane	ug/L	ND	1.0	09/28/12 17:45	
1,2-Dichloropropane	ug/L	ND	4.0	09/28/12 17:45	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	09/28/12 17:45	
1,3-Dichlorobenzene	ug/L	ND	1.0	09/28/12 17:45	
1,3-Dichloropropane	ug/L	ND	1.0	09/28/12 17:45	
1,4-Dichlorobenzene	ug/L	ND	1.0	09/28/12 17:45	
2,2-Dichloropropane	ug/L	ND	4.0	09/28/12 17:45	
2-Butanone (MEK)	ug/L	ND	4.0	09/28/12 17:45	
2-Chlorotoluene	ug/L	ND	1.0	09/28/12 17:45	
4-Chlorotoluene	ug/L	ND	1.0	09/28/12 17:45	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	09/28/12 17:45	
Acetone	ug/L	ND	25.0	09/28/12 17:45	
Allyl chloride	ug/L	ND	4.0	09/28/12 17:45	
Benzene	ug/L	ND	1.0	09/28/12 17:45	
Bromobenzene	ug/L	ND	1.0	09/28/12 17:45	
Bromochloromethane	ug/L	ND	1.0	09/28/12 17:45	
Bromodichloromethane	ug/L	ND	1.0	09/28/12 17:45	
Bromoform	ug/L	ND	4.0	09/28/12 17:45	
Bromomethane	ug/L	ND	4.0	09/28/12 17:45	
Carbon tetrachloride	ug/L	ND	1.0	09/28/12 17:45	
Chlorobenzene	ug/L	ND	1.0	09/28/12 17:45	
Chloroethane	ug/L	ND	1.0	09/28/12 17:45	
Chloroform	ug/L	ND	1.0	09/28/12 17:45	
Chloromethane	ug/L	ND	4.0	09/28/12 17:45	
cis-1,2-Dichloroethene	ug/L	ND	1.0	09/28/12 17:45	
cis-1,3-Dichloropropene	ug/L	ND	4.0	09/28/12 17:45	
Dibromochloromethane	ug/L	ND	1.0	09/28/12 17:45	
Dibromomethane	ug/L	ND	4.0	09/28/12 17:45	

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REPORT OF LABORATORY ANALYSIS

Page 21 of 32

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QUALITY CONTROL DATA

Project: City of Rochester CRC

Pace Project No.: 10206930

METHOD BLANK: 1298038

Matrix: Water

Associated Lab Samples: 10206930001, 10206930002, 10206930003, 10206930004, 10206930005, 10206930006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	09/28/12 17:45	
Dichlorofluoromethane	ug/L	ND	1.0	09/28/12 17:45	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	09/28/12 17:45	
Ethylbenzene	ug/L	ND	1.0	09/28/12 17:45	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	09/28/12 17:45	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	09/28/12 17:45	
m&p-Xylene	ug/L	ND	2.0	09/28/12 17:45	
Methyl-tert-butyl ether	ug/L	ND	1.0	09/28/12 17:45	
Methylene Chloride	ug/L	ND	4.0	09/28/12 17:45	
n-Butylbenzene	ug/L	ND	1.0	09/28/12 17:45	
n-Propylbenzene	ug/L	ND	1.0	09/28/12 17:45	
Naphthalene	ug/L	ND	4.0	09/28/12 17:45	
o-Xylene	ug/L	ND	1.0	09/28/12 17:45	
p-Isopropyltoluene	ug/L	ND	1.0	09/28/12 17:45	
sec-Butylbenzene	ug/L	ND	1.0	09/28/12 17:45	
Styrene	ug/L	ND	1.0	09/28/12 17:45	
tert-Butylbenzene	ug/L	ND	1.0	09/28/12 17:45	
Tetrachloroethene	ug/L	ND	1.0	09/28/12 17:45	
Tetrahydrofuran	ug/L	ND	10.0	09/28/12 17:45	
Toluene	ug/L	ND	1.0	09/28/12 17:45	
trans-1,2-Dichloroethene	ug/L	ND	1.0	09/28/12 17:45	
trans-1,3-Dichloropropene	ug/L	ND	4.0	09/28/12 17:45	
Trichloroethene	ug/L	ND	1.0	09/28/12 17:45	
Trichlorofluoromethane	ug/L	ND	1.0	09/28/12 17:45	
Vinyl chloride	ug/L	ND	0.40	09/28/12 17:45	
Xylene (Total)	ug/L	ND	3.0	09/28/12 17:45	
1,2-Dichloroethane-d4 (S)	%	107	75-125	09/28/12 17:45	
4-Bromofluorobenzene (S)	%	103	75-125	09/28/12 17:45	
Dibromofluoromethane (S)	%	105	75-125	09/28/12 17:45	
Toluene-d8 (S)	%	101	75-125	09/28/12 17:45	

LABORATORY CONTROL SAMPLE: 1298039

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.5	105	75-125	
1,1,1-Trichloroethane	ug/L	50	53.0	106	73-128	
1,1,2,2-Tetrachloroethane	ug/L	50	49.4	99	75-125	
1,1,2-Trichloroethane	ug/L	50	49.1	98	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	42.3	85	63-125	
1,1-Dichloroethane	ug/L	50	53.9	108	72-126	
1,1-Dichloroethene	ug/L	50	50.8	102	73-129	
1,1-Dichloropropene	ug/L	50	53.2	106	72-128	
1,2,3-Trichlorobenzene	ug/L	50	46.3	93	73-125	
1,2,3-Trichloropropane	ug/L	50	48.2	96	75-125	
1,2,4-Trichlorobenzene	ug/L	50	48.1	96	74-125	

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REPORT OF LABORATORY ANALYSIS

Page 22 of 32

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QUALITY CONTROL DATA

Project: City of Rochester CRC

Pace Project No.: 10206930

LABORATORY CONTROL SAMPLE: 1298039

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	50	49.4	99	75-126	
1,2-Dibromo-3-chloropropane	ug/L	50	47.3	95	75-125	
1,2-Dibromoethane (EDB)	ug/L	50	49.6	99	75-125	
1,2-Dichlorobenzene	ug/L	50	48.4	97	75-125	
1,2-Dichloroethane	ug/L	50	50.2	100	75-132	
1,2-Dichloropropane	ug/L	50	48.6	97	75-125	
1,3,5-Trimethylbenzene	ug/L	50	50.7	101	75-126	
1,3-Dichlorobenzene	ug/L	50	48.6	97	75-125	
1,3-Dichloropropane	ug/L	50	50.0	100	75-125	
1,4-Dichlorobenzene	ug/L	50	49.0	98	75-125	
2,2-Dichloropropane	ug/L	50	51.9	104	72-133	
2-Butanone (MEK)	ug/L	50	45.6	91	52-138	
2-Chlorotoluene	ug/L	50	50.3	101	74-125	
4-Chlorotoluene	ug/L	50	49.3	99	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	50	47.9	96	75-125	
Acetone	ug/L	125	119	95	30-150	
Allyl chloride	ug/L	50	49.1	98	75-132	
Benzene	ug/L	50	50.4	101	75-132	
Bromobenzene	ug/L	50	48.1	96	75-125	
Bromochloromethane	ug/L	50	50.6	101	75-126	
Bromodichloromethane	ug/L	50	51.2	102	75-125	
Bromoform	ug/L	50	50.8	102	75-125	
Bromomethane	ug/L	50	39.1	78	52-150	
Carbon tetrachloride	ug/L	50	51.3	103	73-132	
Chlorobenzene	ug/L	50	50.4	101	75-125	
Chloroethane	ug/L	50	57.3	115	75-143	
Chloroform	ug/L	50	51.0	102	75-128	
Chloromethane	ug/L	50	36.1	72	56-136	
cis-1,2-Dichloroethene	ug/L	50	50.0	100	75-125	
cis-1,3-Dichloropropene	ug/L	50	51.1	102	75-125	
Dibromochloromethane	ug/L	50	50.1	100	75-125	
Dibromomethane	ug/L	50	50.0	100	75-125	
Dichlorodifluoromethane	ug/L	50	55.8	112	50-137	
Dichlorofluoromethane	ug/L	50	54.4	109	68-133	
Diethyl ether (Ethyl ether)	ug/L	50	48.9	98	75-125	
Ethylbenzene	ug/L	50	49.0	98	75-125	
Hexachloro-1,3-butadiene	ug/L	25	23.0	92	57-132	
Isopropylbenzene (Cumene)	ug/L	50	50.3	101	75-125	
m&p-Xylene	ug/L	100	98.6	99	75-125	
Methyl-tert-butyl ether	ug/L	50	50.2	100	74-130	
Methylene Chloride	ug/L	50	47.6	95	62-127	
n-Butylbenzene	ug/L	50	50.0	100	68-128	
n-Propylbenzene	ug/L	50	50.6	101	74-125	
Naphthalene	ug/L	50	48.1	96	75-125	
o-Xylene	ug/L	50	49.2	98	75-125	
p-Isopropyltoluene	ug/L	50	49.5	99	75-125	
sec-Butylbenzene	ug/L	50	50.2	100	71-125	
Styrene	ug/L	50	50.7	101	75-125	

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REPORT OF LABORATORY ANALYSIS

Page 23 of 32

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QUALITY CONTROL DATA

Project: City of Rochester CRC

Pace Project No.: 10206930

LABORATORY CONTROL SAMPLE: 1298039

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	48.7	97	73-125	
Tetrachloroethene	ug/L	50	49.2	98	75-125	
Tetrahydrofuran	ug/L	500	476	95	75-128	
Toluene	ug/L	50	51.7	103	75-125	
trans-1,2-Dichloroethene	ug/L	50	51.2	102	75-125	
trans-1,3-Dichloropropene	ug/L	50	51.4	103	75-125	
Trichloroethene	ug/L	50	51.4	103	75-125	
Trichlorofluoromethane	ug/L	50	46.4	93	64-139	
Vinyl chloride	ug/L	50	57.3	115	75-150	
Xylene (Total)	ug/L	150	148	98	75-125	
1,2-Dichloroethane-d4 (S)	%			100	75-125	
4-Bromofluorobenzene (S)	%			100	75-125	
Dibromofluoromethane (S)	%			102	75-125	
Toluene-d8 (S)	%			104	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1298040 1298041

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		10206854004 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	52.8	53.1	106	106	75-125	.6	30	
1,1,1-Trichloroethane	ug/L	ND	50	50	56.0	57.2	112	114	75-145	2	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	49.1	51.1	98	102	75-125	4	30	
1,1,2-Trichloroethane	ug/L	ND	50	50	47.7	48.2	95	96	75-125	1	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	50	50.3	52.0	101	104	75-150	3	30	
1,1-Dichloroethane	ug/L	ND	50	50	54.7	55.6	109	111	75-139	2	30	
1,1-Dichloroethene	ug/L	ND	50	50	54.0	54.3	108	109	75-148	.7	30	
1,1-Dichloropropene	ug/L	ND	50	50	56.0	57.5	112	115	75-148	3	30	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	46.4	48.0	93	96	75-127	3	30	
1,2,3-Trichloropropane	ug/L	ND	50	50	46.8	48.6	94	97	75-125	4	30	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	47.6	49.2	95	98	75-126	3	30	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	50.6	52.3	101	105	75-135	3	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	49.0	51.1	98	102	75-125	4	30	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	49.5	50.0	99	100	75-125	1	30	
1,2-Dichlorobenzene	ug/L	ND	50	50	48.5	50.2	97	100	75-125	4	30	
1,2-Dichloroethane	ug/L	ND	50	50	49.3	50.1	99	100	75-139	2	30	
1,2-Dichloropropane	ug/L	ND	50	50	49.2	50.0	98	100	75-131	2	30	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	52.1	53.5	104	107	75-134	3	30	
1,3-Dichlorobenzene	ug/L	ND	50	50	49.5	51.0	99	102	75-125	3	30	
1,3-Dichloropropane	ug/L	ND	50	50	49.6	50.1	99	100	75-127	1	30	
1,4-Dichlorobenzene	ug/L	ND	50	50	49.7	51.6	99	103	75-125	4	30	
2,2-Dichloropropane	ug/L	ND	50	50	54.2	55.5	108	111	75-150	2	30	
2-Butanone (MEK)	ug/L	ND	50	50	46.8	46.6	94	93	50-138	.3	30	
2-Chlorotoluene	ug/L	ND	50	50	52.1	53.1	104	106	75-134	2	30	
4-Chlorotoluene	ug/L	ND	50	50	50.0	51.8	100	104	75-130	4	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	50	48.1	48.7	96	97	75-125	1	30	
Acetone	ug/L	ND	125	125	113	113	91	91	30-142	.05	30	
Allyl chloride	ug/L	ND	50	50	54.6	55.6	109	111	75-146	2	30	

Date: 10/04/2012 02:07 PM

REPORT OF LABORATORY ANALYSIS

Page 24 of 32

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QUALITY CONTROL DATA

Project: City of Rochester CRC

Pace Project No.: 10206930

Parameter	10206854004		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	MS % Rec	MSD % Rec	Limits	RPD	RPD	RPD	RPD		
Benzene	ug/L	ND	50	50	51.5	51.7	103	103	75-146	.4	30								
Bromobenzene	ug/L	ND	50	50	48.1	50.0	96	100	75-125	4	30								
Bromochloromethane	ug/L	ND	50	50	47.1	47.3	94	95	75-129	.6	30								
Bromodichloromethane	ug/L	ND	50	50	52.6	52.0	105	104	75-130	1	30								
Bromoform	ug/L	ND	50	50	50.7	51.5	101	103	75-125	2	30								
Bromomethane	ug/L	ND	50	50	39.4	43.4	79	87	52-150	10	30								
Carbon tetrachloride	ug/L	ND	50	50	55.4	56.6	111	113	75-150	2	30								
Chlorobenzene	ug/L	ND	50	50	51.3	51.8	103	104	75-127	1	30								
Chloroethane	ug/L	ND	50	50	53.9	55.5	108	111	75-146	3	30								
Chloroform	ug/L	ND	50	50	51.8	52.1	104	104	75-137	.6	30								
Chloromethane	ug/L	ND	50	50	42.8	42.2	86	84	64-150	1	30								
cis-1,2-Dichloroethene	ug/L	ND	50	50	51.0	52.0	102	104	75-139	2	30								
cis-1,3-Dichloropropene	ug/L	ND	50	50	51.7	52.2	103	104	75-129	1	30								
Dibromochloromethane	ug/L	ND	50	50	49.6	50.6	99	101	75-125	2	30								
Dibromomethane	ug/L	ND	50	50	49.3	49.4	99	99	75-126	.2	30								
Dichlorodifluoromethane	ug/L	ND	50	50	67.4	67.0	135	134	75-150	.5	30								
Dichlorofluoromethane	ug/L	ND	50	50	55.4	55.8	111	112	75-143	.8	30								
Diethyl ether (Ethyl ether)	ug/L	ND	50	50	47.5	47.9	95	96	71-133	1	30								
Ethylbenzene	ug/L	ND	50	50	50.5	50.8	101	102	75-132	.7	30								
Hexachloro-1,3-butadiene	ug/L	ND	25	25	23.1	23.9	92	96	62-147	4	30								
Isopropylbenzene (Cumene)	ug/L	ND	50	50	52.1	52.9	104	106	75-135	1	30								
m&p-Xylene	ug/L	ND	100	100	101	103	101	103	75-131	1	30								
Methyl-tert-butyl ether	ug/L	ND	50	50	49.8	49.7	100	99	71-137	.09	30								
Methylene Chloride	ug/L	ND	50	50	49.8	49.9	100	100	57-134	.1	30								
n-Butylbenzene	ug/L	ND	50	50	51.7	54.0	103	108	74-139	4	30								
n-Propylbenzene	ug/L	ND	50	50	52.6	54.6	105	109	75-137	4	30								
Naphthalene	ug/L	ND	50	50	48.1	49.6	96	99	75-129	3	30								
o-Xylene	ug/L	ND	50	50	49.8	51.4	100	103	75-128	3	30								
p-Isopropyltoluene	ug/L	ND	50	50	51.1	53.3	102	107	75-135	4	30								
sec-Butylbenzene	ug/L	ND	50	50	52.6	54.6	105	109	75-137	4	30								
Styrene	ug/L	ND	50	50	50.7	50.9	101	102	75-126	.5	30								
tert-Butylbenzene	ug/L	ND	50	50	50.1	52.2	100	104	75-133	4	30								
Tetrachloroethene	ug/L	12.0	50	50	64.6	64.6	105	105	75-138	.002	30								
Tetrahydrofuran	ug/L	ND	500	500	488	486	98	97	74-128	.5	30								
Toluene	ug/L	ND	50	50	51.7	53.2	103	106	75-131	3	30								
trans-1,2-Dichloroethene	ug/L	ND	50	50	52.9	56.5	106	113	75-140	7	30								
trans-1,3-Dichloropropene	ug/L	ND	50	50	51.6	51.7	103	103	75-129	.08	30								
Trichloroethene	ug/L	1.0	50	50	53.4	54.3	105	106	75-132	2	30								
Trichlorofluoromethane	ug/L	ND	50	50	57.9	58.3	116	117	75-150	.7	30								
Vinyl chloride	ug/L	ND	50	50	56.3	57.1	113	114	75-150	1	30								
Xylene (Total)	ug/L	ND	150	150	151	154	101	103	75-129	2	30								
1,2-Dichloroethane-d4 (S)	%						101	101	75-125										
4-Bromofluorobenzene (S)	%						101	103	75-125										
Dibromofluoromethane (S)	%						101	101	75-125										
Toluene-d8 (S)	%						103	103	75-125										

QUALITY CONTROL DATA

Project: City of Rochester CRC

Pace Project No.: 10206930

QC Batch: MSV/21595 Analysis Method: EPA 8260
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
 Associated Lab Samples: 10206930007, 10206930008

METHOD BLANK: 1298204 Matrix: Water

Associated Lab Samples: 10206930007, 10206930008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	09/29/12 00:53	
1,1,1-Trichloroethane	ug/L	ND	1.0	09/29/12 00:53	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	09/29/12 00:53	
1,1,2-Trichloroethane	ug/L	ND	1.0	09/29/12 00:53	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	09/29/12 00:53	
1,1-Dichloroethane	ug/L	ND	1.0	09/29/12 00:53	
1,1-Dichloroethene	ug/L	ND	1.0	09/29/12 00:53	
1,1-Dichloropropene	ug/L	ND	1.0	09/29/12 00:53	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	09/29/12 00:53	
1,2,3-Trichloropropane	ug/L	ND	4.0	09/29/12 00:53	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	09/29/12 00:53	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	09/29/12 00:53	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	09/29/12 00:53	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	09/29/12 00:53	
1,2-Dichlorobenzene	ug/L	ND	1.0	09/29/12 00:53	
1,2-Dichloroethane	ug/L	ND	1.0	09/29/12 00:53	
1,2-Dichloropropane	ug/L	ND	4.0	09/29/12 00:53	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	09/29/12 00:53	
1,3-Dichlorobenzene	ug/L	ND	1.0	09/29/12 00:53	
1,3-Dichloropropane	ug/L	ND	1.0	09/29/12 00:53	
1,4-Dichlorobenzene	ug/L	ND	1.0	09/29/12 00:53	
2,2-Dichloropropane	ug/L	ND	4.0	09/29/12 00:53	
2-Butanone (MEK)	ug/L	ND	4.0	09/29/12 00:53	
2-Chlorotoluene	ug/L	ND	1.0	09/29/12 00:53	
4-Chlorotoluene	ug/L	ND	1.0	09/29/12 00:53	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	09/29/12 00:53	
Acetone	ug/L	ND	25.0	09/29/12 00:53	
Allyl chloride	ug/L	ND	4.0	09/29/12 00:53	
Benzene	ug/L	ND	1.0	09/29/12 00:53	
Bromobenzene	ug/L	ND	1.0	09/29/12 00:53	
Bromochloromethane	ug/L	ND	1.0	09/29/12 00:53	
Bromodichloromethane	ug/L	ND	1.0	09/29/12 00:53	
Bromoform	ug/L	ND	4.0	09/29/12 00:53	
Bromomethane	ug/L	ND	4.0	09/29/12 00:53	CL
Carbon tetrachloride	ug/L	ND	1.0	09/29/12 00:53	
Chlorobenzene	ug/L	ND	1.0	09/29/12 00:53	
Chloroethane	ug/L	ND	1.0	09/29/12 00:53	
Chloroform	ug/L	ND	1.0	09/29/12 00:53	
Chloromethane	ug/L	ND	4.0	09/29/12 00:53	
cis-1,2-Dichloroethene	ug/L	ND	1.0	09/29/12 00:53	
cis-1,3-Dichloropropene	ug/L	ND	4.0	09/29/12 00:53	
Dibromochloromethane	ug/L	ND	1.0	09/29/12 00:53	
Dibromomethane	ug/L	ND	4.0	09/29/12 00:53	

Date: 10/04/2012 02:07 PM

REPORT OF LABORATORY ANALYSIS

Page 26 of 32

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QUALITY CONTROL DATA

Project: City of Rochester CRC

Pace Project No.: 10206930

METHOD BLANK: 1298204

Matrix: Water

Associated Lab Samples: 10206930007, 10206930008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	09/29/12 00:53	
Dichlorofluoromethane	ug/L	ND	1.0	09/29/12 00:53	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	09/29/12 00:53	
Ethylbenzene	ug/L	ND	1.0	09/29/12 00:53	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	09/29/12 00:53	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	09/29/12 00:53	
m&p-Xylene	ug/L	ND	2.0	09/29/12 00:53	
Methyl-tert-butyl ether	ug/L	ND	1.0	09/29/12 00:53	
Methylene Chloride	ug/L	ND	4.0	09/29/12 00:53	
n-Butylbenzene	ug/L	ND	1.0	09/29/12 00:53	
n-Propylbenzene	ug/L	ND	1.0	09/29/12 00:53	
Naphthalene	ug/L	ND	4.0	09/29/12 00:53	
o-Xylene	ug/L	ND	1.0	09/29/12 00:53	
p-Isopropyltoluene	ug/L	ND	1.0	09/29/12 00:53	
sec-Butylbenzene	ug/L	ND	1.0	09/29/12 00:53	
Styrene	ug/L	ND	1.0	09/29/12 00:53	
tert-Butylbenzene	ug/L	ND	1.0	09/29/12 00:53	
Tetrachloroethene	ug/L	ND	1.0	09/29/12 00:53	
Tetrahydrofuran	ug/L	ND	10.0	09/29/12 00:53	
Toluene	ug/L	ND	1.0	09/29/12 00:53	
trans-1,2-Dichloroethene	ug/L	ND	1.0	09/29/12 00:53	
trans-1,3-Dichloropropene	ug/L	ND	4.0	09/29/12 00:53	
Trichloroethene	ug/L	ND	1.0	09/29/12 00:53	
Trichlorofluoromethane	ug/L	ND	1.0	09/29/12 00:53	
Vinyl chloride	ug/L	ND	0.40	09/29/12 00:53	
Xylene (Total)	ug/L	ND	3.0	09/29/12 00:53	
1,2-Dichloroethane-d4 (S)	%	108	75-125	09/29/12 00:53	
4-Bromofluorobenzene (S)	%	101	75-125	09/29/12 00:53	
Dibromofluoromethane (S)	%	105	75-125	09/29/12 00:53	
Toluene-d8 (S)	%	102	75-125	09/29/12 00:53	

LABORATORY CONTROL SAMPLE: 1298205

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.2	104	75-125	
1,1,1-Trichloroethane	ug/L	50	54.7	109	73-128	
1,1,2,2-Tetrachloroethane	ug/L	50	51.5	103	75-125	
1,1,2-Trichloroethane	ug/L	50	49.0	98	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	39.0	78	63-125	
1,1-Dichloroethane	ug/L	50	54.9	110	72-126	
1,1-Dichloroethene	ug/L	50	51.4	103	73-129	
1,1-Dichloropropene	ug/L	50	54.9	110	72-128	
1,2,3-Trichlorobenzene	ug/L	50	47.7	95	73-125	
1,2,3-Trichloropropane	ug/L	50	50.2	100	75-125	
1,2,4-Trichlorobenzene	ug/L	50	48.2	96	74-125	

Date: 10/04/2012 02:07 PM

REPORT OF LABORATORY ANALYSIS

Page 27 of 32

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QUALITY CONTROL DATA

Project: City of Rochester CRC

Pace Project No.: 10206930

LABORATORY CONTROL SAMPLE: 1298205

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	50	51.7	103	75-126	
1,2-Dibromo-3-chloropropane	ug/L	50	51.4	103	75-125	
1,2-Dibromoethane (EDB)	ug/L	50	50.3	101	75-125	
1,2-Dichlorobenzene	ug/L	50	49.9	100	75-125	
1,2-Dichloroethane	ug/L	50	51.3	103	75-132	
1,2-Dichloropropane	ug/L	50	49.0	98	75-125	
1,3,5-Trimethylbenzene	ug/L	50	52.8	106	75-126	
1,3-Dichlorobenzene	ug/L	50	50.2	100	75-125	
1,3-Dichloropropane	ug/L	50	50.6	101	75-125	
1,4-Dichlorobenzene	ug/L	50	50.6	101	75-125	
2,2-Dichloropropane	ug/L	50	46.9	94	72-133	
2-Butanone (MEK)	ug/L	50	48.0	96	52-138	
2-Chlorotoluene	ug/L	50	52.2	104	74-125	
4-Chlorotoluene	ug/L	50	50.8	102	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	50	48.9	98	75-125	
Acetone	ug/L	125	117	93	30-150	
Allyl chloride	ug/L	50	53.2	106	75-132	
Benzene	ug/L	50	52.1	104	75-132	
Bromobenzene	ug/L	50	49.9	100	75-125	
Bromochloromethane	ug/L	50	49.1	98	75-126	
Bromodichloromethane	ug/L	50	51.9	104	75-125	
Bromoform	ug/L	50	51.3	103	75-125	
Bromomethane	ug/L	50	38.9	78	52-150	CL
Carbon tetrachloride	ug/L	50	51.6	103	73-132	
Chlorobenzene	ug/L	50	51.2	102	75-125	
Chloroethane	ug/L	50	55.6	111	75-143	
Chloroform	ug/L	50	53.0	106	75-128	
Chloromethane	ug/L	50	44.7	89	56-136	
cis-1,2-Dichloroethene	ug/L	50	51.6	103	75-125	
cis-1,3-Dichloropropene	ug/L	50	51.0	102	75-125	
Dibromochloromethane	ug/L	50	50.9	102	75-125	
Dibromomethane	ug/L	50	50.3	101	75-125	
Dichlorodifluoromethane	ug/L	50	52.1	104	50-137	
Dichlorofluoromethane	ug/L	50	54.5	109	68-133	
Diethyl ether (Ethyl ether)	ug/L	50	49.1	98	75-125	
Ethylbenzene	ug/L	50	50.6	101	75-125	
Hexachloro-1,3-butadiene	ug/L	25	22.7	91	57-132	
Isopropylbenzene (Cumene)	ug/L	50	52.3	105	75-125	
m&p-Xylene	ug/L	100	100	100	75-125	
Methyl-tert-butyl ether	ug/L	50	47.6	95	74-130	
Methylene Chloride	ug/L	50	50.9	102	62-127	
n-Butylbenzene	ug/L	50	51.6	103	68-128	
n-Propylbenzene	ug/L	50	53.0	106	74-125	
Naphthalene	ug/L	50	49.9	100	75-125	
o-Xylene	ug/L	50	50.6	101	75-125	
p-Isopropyltoluene	ug/L	50	50.9	102	75-125	
sec-Butylbenzene	ug/L	50	52.5	105	71-125	
Styrene	ug/L	50	51.7	103	75-125	

Date: 10/04/2012 02:07 PM

REPORT OF LABORATORY ANALYSIS

Page 28 of 32

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QUALITY CONTROL DATA

Project: City of Rochester CRC

Pace Project No.: 10206930

LABORATORY CONTROL SAMPLE: 1298205

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	50.6	101	73-125	
Tetrachloroethene	ug/L	50	50.4	101	75-125	
Tetrahydrofuran	ug/L	500	504	101	75-128	
Toluene	ug/L	50	52.4	105	75-125	
trans-1,2-Dichloroethene	ug/L	50	56.5	113	75-125	
trans-1,3-Dichloropropene	ug/L	50	50.9	102	75-125	
Trichloroethene	ug/L	50	51.0	102	75-125	
Trichlorofluoromethane	ug/L	50	50.3	101	64-139	
Vinyl chloride	ug/L	50	57.4	115	75-150	
Xylene (Total)	ug/L	150	151	101	75-125	
1,2-Dichloroethane-d4 (S)	%			102	75-125	
4-Bromofluorobenzene (S)	%			102	75-125	
Dibromofluoromethane (S)	%			102	75-125	
Toluene-d8 (S)	%			103	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1301477 1301478

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10206538006 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1,2-Tetrachloroethane	ug/L	ND	250	250	268	270	107	108	75-125		1	30	
1,1,1-Trichloroethane	ug/L	ND	250	250	292	287	117	115	75-145		2	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	250	250	255	253	102	101	75-125		.9	30	
1,1,2-Trichloroethane	ug/L	ND	250	250	250	246	100	98	75-125		1	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	250	250	291	297	116	119	75-150		2	30	
1,1-Dichloroethane	ug/L	ND	250	250	283	281	113	112	75-139		.7	30	
1,1-Dichloroethene	ug/L	ND	250	250	309	279	124	112	75-148		10	30	
1,1-Dichloropropene	ug/L	ND	250	250	292	284	117	114	75-148		3	30	
1,2,3-Trichlorobenzene	ug/L	ND	250	250	237	239	95	96	75-127		1	30	
1,2,3-Trichloropropane	ug/L	ND	250	250	250	245	100	98	75-125		2	30	
1,2,4-Trichlorobenzene	ug/L	ND	250	250	242	243	97	97	75-126		.5	30	
1,2,4-Trimethylbenzene	ug/L	ND	250	250	260	263	104	105	75-135		1	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	250	250	253	252	101	101	75-125		.4	30	
1,2-Dibromoethane (EDB)	ug/L	ND	250	250	252	252	101	101	75-125		.2	30	
1,2-Dichlorobenzene	ug/L	ND	250	250	247	251	99	101	75-125		2	30	
1,2-Dichloroethane	ug/L	ND	250	250	253	255	101	102	75-139		.9	30	
1,2-Dichloropropane	ug/L	ND	250	250	253	249	101	100	75-131		1	30	
1,3,5-Trimethylbenzene	ug/L	ND	250	250	265	271	106	109	75-134		2	30	
1,3-Dichlorobenzene	ug/L	ND	250	250	254	257	102	103	75-125		1	30	
1,3-Dichloropropane	ug/L	ND	250	250	255	253	102	101	75-127		.7	30	
1,4-Dichlorobenzene	ug/L	ND	250	250	255	256	102	102	75-125		.5	30	
2,2-Dichloropropane	ug/L	ND	250	250	243	245	97	98	75-150		.9	30	
2-Butanone (MEK)	ug/L	ND	250	250	238	230	95	92	50-138		3	30	
2-Chlorotoluene	ug/L	ND	250	250	266	267	106	107	75-134		.5	30	
4-Chlorotoluene	ug/L	ND	250	250	256	260	102	104	75-130		2	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	242	237	97	95	75-125		2	30	
Acetone	ug/L	ND	625	625	619	627	99	100	30-142		1	30	
Allyl chloride	ug/L	ND	250	250	276	274	110	110	75-146		.8	30	

Date: 10/04/2012 02:07 PM

REPORT OF LABORATORY ANALYSIS

Page 29 of 32

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QUALITY CONTROL DATA

Project: City of Rochester CRC

Pace Project No.: 10206930

Parameter	10206538006		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	MS % Rec	MSD % Rec	Limits	RPD	RPD	RPD	RPD	Qual
Benzene	ug/L	ND	250	250	267	265	107	106	75-146	.4	30							
Bromobenzene	ug/L	ND	250	250	247	249	99	100	75-125	1	30							
Bromochloromethane	ug/L	ND	250	250	244	246	98	99	75-129	.8	30							
Bromodichloromethane	ug/L	ND	250	250	268	262	107	105	75-130	2	30							
Bromoform	ug/L	ND	250	250	261	259	104	103	75-125	.7	30							
Bromomethane	ug/L	ND	250	250	207	233	83	93	52-150	12	30	CL						
Carbon tetrachloride	ug/L	ND	250	250	287	288	115	115	75-150	.4	30							
Chlorobenzene	ug/L	ND	250	250	263	262	105	105	75-127	.5	30							
Chloroethane	ug/L	ND	250	250	276	286	110	114	75-146	4	30							
Chloroform	ug/L	ND	250	250	267	265	107	106	75-137	.8	30							
Chloromethane	ug/L	ND	250	250	212	243	85	97	64-150	13	30							
cis-1,2-Dichloroethene	ug/L	11.5	250	250	274	271	105	104	75-139	1	30							
cis-1,3-Dichloropropene	ug/L	ND	250	250	254	257	102	103	75-129	.8	30							
Dibromochloromethane	ug/L	ND	250	250	257	257	103	103	75-125	.004	30							
Dibromomethane	ug/L	ND	250	250	252	247	101	99	75-126	2	30							
Dichlorodifluoromethane	ug/L	ND	250	250	344	345	138	138	75-150	.3	30							
Dichlorofluoromethane	ug/L	ND	250	250	284	283	114	113	75-143	.6	30							
Diethyl ether (Ethyl ether)	ug/L	ND	250	250	243	242	97	97	71-133	.4	30							
Ethylbenzene	ug/L	ND	250	250	260	261	104	104	75-132	.1	30							
Hexachloro-1,3-butadiene	ug/L	ND	125	125	118	119	94	95	62-147	1	30							
Isopropylbenzene (Cumene)	ug/L	ND	250	250	271	272	108	109	75-135	.3	30							
m&p-Xylene	ug/L	ND	500	500	518	524	104	105	75-131	1	30							
Methyl-tert-butyl ether	ug/L	ND	250	250	257	257	103	103	71-137	.03	30							
Methylene Chloride	ug/L	ND	250	250	257	254	102	101	57-134	1	30							
n-Butylbenzene	ug/L	ND	250	250	265	269	106	108	74-139	2	30							
n-Propylbenzene	ug/L	ND	250	250	269	273	108	109	75-137	1	30							
Naphthalene	ug/L	ND	250	250	246	247	99	99	75-129	.5	30							
o-Xylene	ug/L	ND	250	250	259	258	103	103	75-128	.3	30							
p-Isopropyltoluene	ug/L	ND	250	250	262	265	105	106	75-135	1	30							
sec-Butylbenzene	ug/L	ND	250	250	271	275	108	110	75-137	2	30							
Styrene	ug/L	ND	250	250	262	265	105	106	75-126	1	30							
tert-Butylbenzene	ug/L	ND	250	250	261	264	104	105	75-133	1	30							
Tetrachloroethene	ug/L	742	250	250	1030	1010	115	108	75-138	2	30							
Tetrahydrofuran	ug/L	ND	2500	2500	2520	2380	101	95	74-128	5	30							
Toluene	ug/L	ND	250	250	269	271	108	109	75-131	1	30							
trans-1,2-Dichloroethene	ug/L	ND	250	250	292	289	117	115	75-140	1	30							
trans-1,3-Dichloropropene	ug/L	ND	250	250	256	257	102	103	75-129	.6	30							
Trichloroethene	ug/L	15.1	250	250	286	284	108	108	75-132	.7	30							
Trichlorofluoromethane	ug/L	ND	250	250	297	297	119	119	75-150	.08	30							
Vinyl chloride	ug/L	ND	250	250	307	308	123	123	75-150	.5	30							
Xylene (Total)	ug/L	ND	750	750	777	782	104	104	75-129	.7	30							
1,2-Dichloroethane-d4 (S)	%						101	102	75-125									
4-Bromofluorobenzene (S)	%						101	102	75-125									
Dibromofluoromethane (S)	%						102	102	75-125									
Toluene-d8 (S)	%						103	104	75-125									

QUALIFIERS

Project: City of Rochester CRC

Pace Project No.: 10206930

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.

PRL - Pace Reporting Limit.

RL - Reporting 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 TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: City of Rochester CRC

Pace Project No.: 10206930

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10206930001	MW - 14	EPA 8260	MSV/21593		
10206930002	MW - 15	EPA 8260	MSV/21593		
10206930003	MW - 16	EPA 8260	MSV/21593		
10206930004	MW - 17	EPA 8260	MSV/21593		
10206930005	MW - 18	EPA 8260	MSV/21593		
10206930006	MW - 19	EPA 8260	MSV/21593		
10206930007	MW - 20	EPA 8260	MSV/21595		
10206930008	TRIP BLANKS	EPA 8260	MSV/21595		



CHAIN-OF-CUSTODY / Analytical Request Document

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

102060130


1/22

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Landmark Environmental	Report To: Jason Skramstad	Attention: Jason Skramstad
Address: 2042 W. 98th Street Bloomington, MN 55431	Copy To: Eric Gabrielson	Company Name: Landmark Environmental, LLC
Email To: jskramsta@landmarkenv.com	Purchase Order No.:	Address: 2042 W. 98th St., Bloomington, MN 55431
Phone: 952-887-9601, ext 205 Fax: 952-887-9505	Project Name: City of Rochester	Pace Quote Reference:
Requested Due Date/TAT: Normal	Project Number: CRC	Pace Project Manager: Carolynne Trout
Pace Profile #:		

ITEM #	Section D Required Client Information		Valid Matrix Codes	MATRIX CODE	SAMPLE TYPE	G+GRAB C+COMP	COLLECTED				# OF CONTAINERS	PRESERVATIVES	Requested Analysis	Pace Project Number Lab ID.								
	SAMPLE ID						COMPOSITE ENDPOINTS		SAMPLE TEMP AT COLLECTION						Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₈	Methanol	Other
	(A-Z, 0-9, /, -)	One Character per box. IDs MUST BE UNIQUE.					DATE	TIME	DATE	TIME												
1	M	W - 1 4			W	G		9/26/12	15:20			3						X	001			
2	M	W - 1 5			W	G		9/26/12	15:40			3						X	002			
3	M	W - 1 6			W	G		9/26/12	17:20			3						X	003			
4	M	W - 1 7			W	G		9/26/12	16:25			3						X	004			
5	M	W - 1 8			W	G		9/26/12	16:10			3						X	005			
6	M	W - 1 9			W	G		9/26/12	14:40			3						X	006			
7	M	W - 2 0			W	G		9/26/12	16:45			3						X	007			

Additional Comments:			RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
			Eric Gabrielson	9/27/12	16:40	Eric Gabrielson	9/27/12	16:40	43	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Eric Gabrielson
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed (MM/DD/YY): 9/28/12

	Document Name: Sample Condition Upon Receipt Form	Document Revised: 22Aug2012 Page 1 of 1
	Document No.: F-MN-L-213-rev.04	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Landmark

Project #: **WO# : 10206930**

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



Tracking Number: _____

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: 888A912167504 80512447 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature: 4.3 Biological Tissue Frozen? Yes No Date and Initials of Person Examining Contents: 9/27/12 sh
 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 and/or 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 (<72 hr)?	<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 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 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? Noncompliances are noted in 13. All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl <2; NaOH >12) Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl Sample # Initial when completed: <u>AW</u> Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	14.
Trip Blank Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	15.
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>D81712-1</u>				<u>2 TB for 3 projects</u>

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: _____ Date/Time: _____ Field Data Required? Yes No

Comments/Resolution: _____

Project Manager Review: [Signature] Date: 9/28/12

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)

Attachment C

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 BUSINESS CENTER		Enter SVE Standard Parameters		Enter AS Standard Parameters			
Sample Date: 09/26/2012		Distance to Nearest Receptor (feet):		33	Distance to Nearest Receptor (feet):		33
Person Completing Worksheet: KAB		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):		46	Air Stripper Influent Flow Rate (L/s):		0.014
		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	169	4				
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	18,700	402				
Ethyl acetate	141-78-6	1,190	26				
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						

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 BUSINESS CENTER		Enter SVE Standard Parameters		Enter AS Standard Parameters			
Sample Date: 09/26/2012		Distance to Nearest Receptor (feet):		33	Distance to Nearest Receptor (feet):		33
Person Completing Worksheet: KAB		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):		46	Air Stripper Influent Flow Rate (L/s):		0.014
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)
Styrene	100-42-5						
1,1,2,2-Tetrachloroethane	79-34-5						
Tetrachloroethylene (PCE)	127-18-4	45,800	983	22	2	0.92	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	34,800	747				
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).

MPCA Leak ID: MN BIO BUSINESS CENTER

Sample Date: 09/26/2012

Person Completing Worksheet: KAB

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	0.0		0.0		0.0							0.0			
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 (methylene 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									8E-07
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															

MPCA Leak ID: MN BIO BUSINESS CENTER

Sample Date: 09/26/2012

Person Completing Worksheet: KAB

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		
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	7.9E-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 BUSINESS CENTER		Enter SVE Standard Parameters		Enter AS Standard Parameters				
Sample Date: 08/23/2012		Distance to Nearest Receptor (feet):		33	Distance to Nearest Receptor (feet):		33	
Person Completing Worksheet: KAB		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):		33	Air Stripper Influent Flow Rate (L/s):		0.018	
		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							
Propylene (methylethylene or propene)	115-07-1							

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 BUSINESS CENTER		Enter SVE Standard Parameters		Enter AS Standard Parameters					
Sample Date: 08/23/2012		Distance to Nearest Receptor (feet):		33	Distance to Nearest Receptor (feet):		33		
Person Completing Worksheet: KAB		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):		33	Air Stripper Influent Flow Rate (L/s):		0.018		
		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)		
Styrene	100-42-5								
1,1,2,2-Tetrachloroethane	79-34-5								
Tetrachloroethylene (PCE)	127-18-4	27,800	437	46	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	26,900	423						
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).

MPCA Leak ID: MN BIO BUSINESS CENTER

Sample Date: 08/23/2012

Person Completing Worksheet: KAB

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 (methylene 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									4E-07
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															

MPCA Leak ID: MN BIO BUSINESS CENTER

Sample Date: 08/23/2012

Person Completing Worksheet: KAB

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		
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	3.5E-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 BUSINESS CENTER		Enter SVE Standard Parameters		Enter AS Standard Parameters			
Sample Date: 07/19/2012		Distance to Nearest Receptor (feet):		33	Distance to Nearest Receptor (feet):		33
Person Completing Worksheet: KAB		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):		49	Air Stripper Influent Flow Rate (L/s):		0.006
		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						
Propylene (methylethylene or propene)	115-07-1						

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 BUSINESS CENTER		Enter SVE Standard Parameters		Enter AS Standard Parameters					
Sample Date: 07/19/2012		Distance to Nearest Receptor (feet):		33	Distance to Nearest Receptor (feet):		33		
Person Completing Worksheet: KAB		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):		49	Air Stripper Influent Flow Rate (L/s):		0.006		
		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)		
Styrene	100-42-5								
1,1,2,2-Tetrachloroethane	79-34-5								
Tetrachloroethylene (PCE)	127-18-4	113,000	2,624	36	35	0.02	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	60,300	1,400						
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 BUSINESS CENTER
 Sample Date: 07/19/2012
 Person Completing Worksheet: KAB

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 (methylene 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-06
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															

MPCA Leak ID: MN BIO BUSINESS CENTER

Sample Date: 07/19/2012

Person Completing Worksheet: KAB

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	
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	2.1E-06

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