October 11, 2010

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

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

Dear Mr. Timm and Mr. Olson:

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

Introduction

This report documents the monthly DPE system operational and analytical data from June 17 and July 26, 2010, as well as quarterly groundwater monitoring data from samples collected on August 18, 2010. DPE system operational and analytical data was not collected on August 18, 2010 because an oil leak from the DPE pump was observed and the pump had to be shut down. On August 20, 2010, John Henry Foster (JHF) and Landmark were on site to inspect and troubleshoot the pump leak. JHF could not repair the pump in the field and determined the pump had to be shipped back to their shop in Eagan, Minnesota, for further inspection and repair. JHF determined the cause of the leak was a failure of the lower shaft seal and ordered a rebuild kit for the pump. The pump is scheduled to be reinstalled by Landmark and JHF on Monday, September 27, 2010.

The DPE system has continued to operate sequentially at all of the DPE system wells after being switched from continuous operation at DPE-1 on October 15, 2009. The DPE system is programmed to operate on each well for 45 minutes before switching to the next well and takes 6 hours to complete one full cycle. The air sample collection method during sequential operation of the DPE system wells consists of a composite Summa canister utilizing a 6-hour flow control valve. Therefore, air emissions from each well are collected during the 6-hour sample collection period. The DPE system well locations and equipment layout are provided in Figures 2 and 3, respectively. A system operation and maintenance summary table is included as Table 1.

System Operational Results

The volatile organic compound (VOC) and perchloroethene (PCE) concentrations from the June 17 and July 26, 2010, sampling events increased from the May 12, 2010, concentrations (see

Figure 4 and Table 2). When comparing the July 26, 2010, concentrations to the baseline emissions data from April 9, 2009, the concentrations of VOCs decreased from 14,613,880 micrograms per cubic meter (ug/m^3) to 493,213 ug/m^3 of total VOCs, a decrease of 96.6 percent (See Figure 4). PCE concentrations decreased from 11,600,000 ug/m^3 to 489,000 ug/m^3, a decrease of 95.8 percent from the baseline concentration (See Figure 4). The DPE system removed 311 pounds of total VOCs, including 247 pounds from PCE from May 12, through July 26, 2010 (see Figure 5 and Table 2). Through July 26, 2010, the DPE system has removed a total of 3,273 pounds of total VOCs and 2,583 pounds of PCE. Emissions analytical data is provided in Table 3 and system operational data tables and field data sheets are provided in Attachment A. The emissions analytical reports are included in Attachment B.

The Minnesota Pollution Control Agency's (MPCA's) Remediation Risk Analysis Screening Spreadsheet (RRASS) 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 rate for PCE during the June 17, 2010, sampling event was 11,717 micrograms per second (ug/s) and below the MPCA screening emissions rate (SER) for chronic risk of 16,300 ug/s and acute risk of 5,980,000 ug/s. The July 26, 2010, site specific emissions rate for PCE of 22,984 ug/s exceeded the SER for chronic risk, but was below the SER for acute risk. The RRASS emissions rates are provided in Table 4 and the RRASS spreadsheets are provided in Attachment C.

The cumulative total VOC mass removed from the DPE system groundwater discharge during air stripper operation was 0.31 pounds on July 26, 2010. The effluent groundwater discharge concentrations were below the City's Water Reclamation Plant discharge criteria of 2,130 ug/L. Mass removal data from the groundwater treatment system is provided in Table 5 and the groundwater discharge analytical data is included in Table 6. The groundwater discharge analytical reports are provided in Attachment B.

The groundwater hydrographs for the DPE and monitoring wells show decreasing trends in the groundwater elevations at all of the wells except for DPE-4 and DPE-5 when compared to the May 12, 2010, monitoring event (Figure's 6 and 7). Landmark's groundwater flow interpretation provided in Figure 8 indicates that the DPE system has been effective in lowering the water table on the Property. 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 August 18, 2010. After approximately one year and two months of DPE system operation, the PCE concentrations at the following wells have decreased (see Figure 9 and Table 9): MW-14 (94%), MW-15 (99%), MW-16 (95%), MW-17 (52%), MW-18 (97%), MW-20 (88%), DPE-1 (99%), DPE-2 (68%), DPE-3 (87%), DPE-4 (93%), DPE-5 (91%), DPE-6 (89%), and DPE-8 (99%). Figure 10 shows the isoconcentration contour map for PCE. The groundwater analytical results are included in Table 10 and the groundwater analytical reports are included in Attachment B. Groundwater monitoring field data

sheets are included in Attachment A.

Per the MPCA's approval, analysis of the following natural attenuation parameters has been discontinued: dissolved calcium, dissolved organic carbon, dissolved iron, dissolved magnesium, methane, nitrate as N, sulfate, and sulfide. The natural attenuation data collected prior to the MPCA's approval is provided in Table 11. The following field parameter data is still collected at each well on a quarterly basis: temperature, conductivity, pH, oxidation reduction potential, and dissolved oxygen (See Table 12).

Conclusions

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

- The DPE system is operating as designed and has removed a significant amount of VOCs in a short period of time.
    - From June 29, 2009, through July 26, 2010, the DPE system removed 3,273 pounds of total VOCs, including 2,583 pounds of PCE from the subsurface.
    - DPE system emissions concentrations of VOCs and PCE from July 26, 2010, have decreased 96.6 percent and 95.8 percent, respectively, when compared to the baseline emissions concentrations.
- The June 17, 2010, site specific emissions rate for PCE of 11,717 ug/s was below the SER for both chronic and acute risk.
- The July 26, 2010, site specific emissions rates for PCE of 22,984 ug/s exceeded the SER for chronic risk, but was below the SER for acute risk.
- Sequential operation of all DPE system wells has effectively lowered the water table at the Property.
- DPE system operation has effectively decreased the concentrations of PCE in the groundwater at the following wells: MW-14 (94%), MW-15 (99%), MW-16 (95%), MW-17 (52%), MW-18 (97%), MW-20 (88%), DPE-1 (99%), DPE-2 (68%), DPE-3 (87%), DPE-4 (93%), DPE-5 (91%), DPE-6 (89%), and DPE-8 (99%).

Recommendations

Landmark recommends continuing sequential operation of all eight DPE wells for the next couple of months, or until a significant decrease in emissions concentrations and mass removed is observed.

Although the July 26, 2010, site specific emissions rates for PCE exceeded the SER for chronic risk, Landmark does not recommend emissions treatment. Based on the emissions results from the first six months of system operation, the site specific emissions rate for PCE will likely decrease to levels below the SER for chronic risk in 30 to 60 days. In addition, the nearest receptor, the Franklin Heating Station (a steam generation plant), is not occupied by tenants who would be exposed to chronic risk.

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

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

The monthly DPE system operational results and the groundwater monitoring results will continue to be submitted to the MPCA on a quarterly basis.

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

Sincerely,

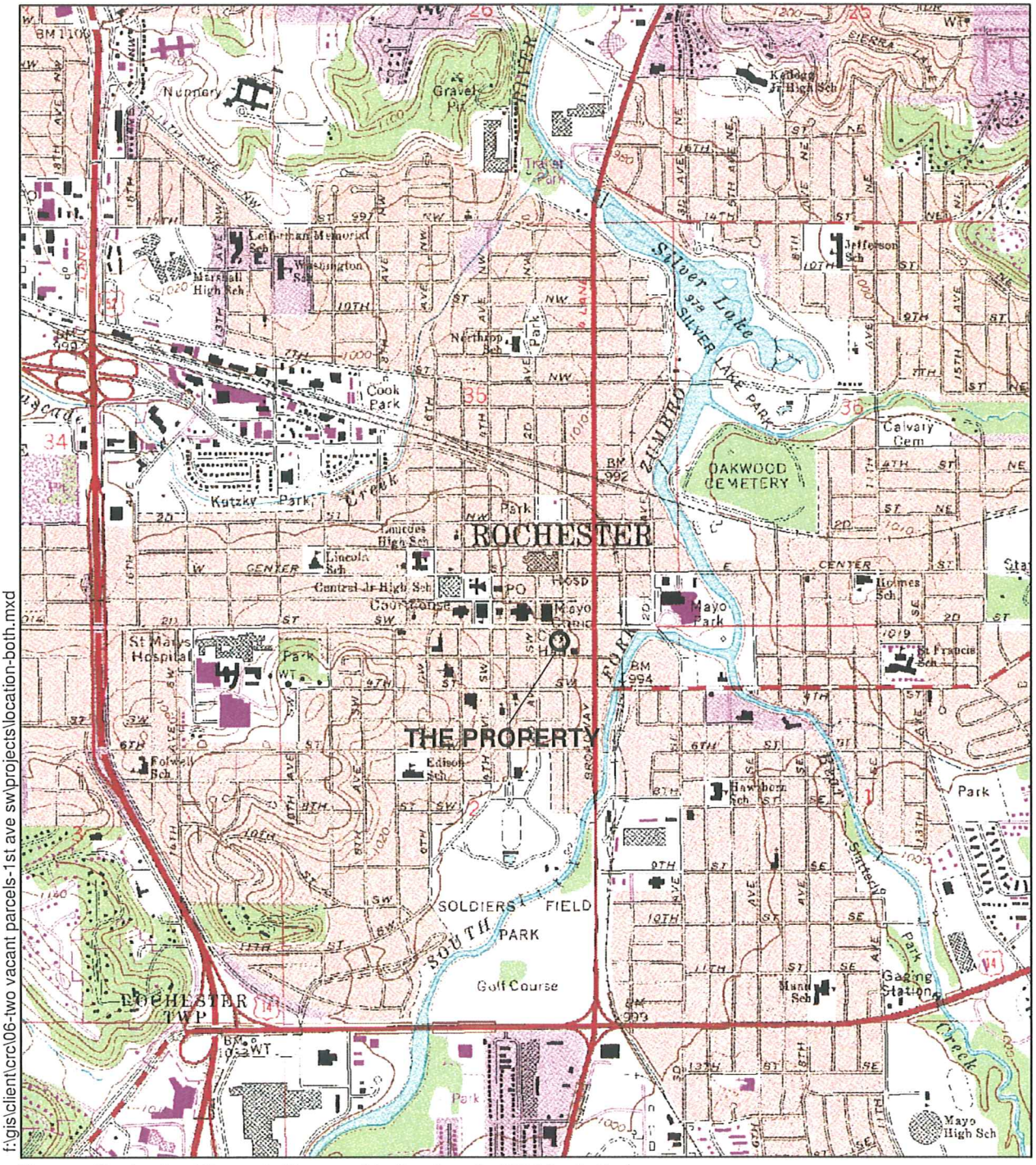
Jason D. Skramstad, P.E.

Cc: Terry Spaeth, City of Rochester

F:\PROJECTS\Crc \Monthly System Reports\20100922 DPE GW\20100922 DPE GW Quarterly Report – Final

TABLE OF CONTENTS

Figures



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

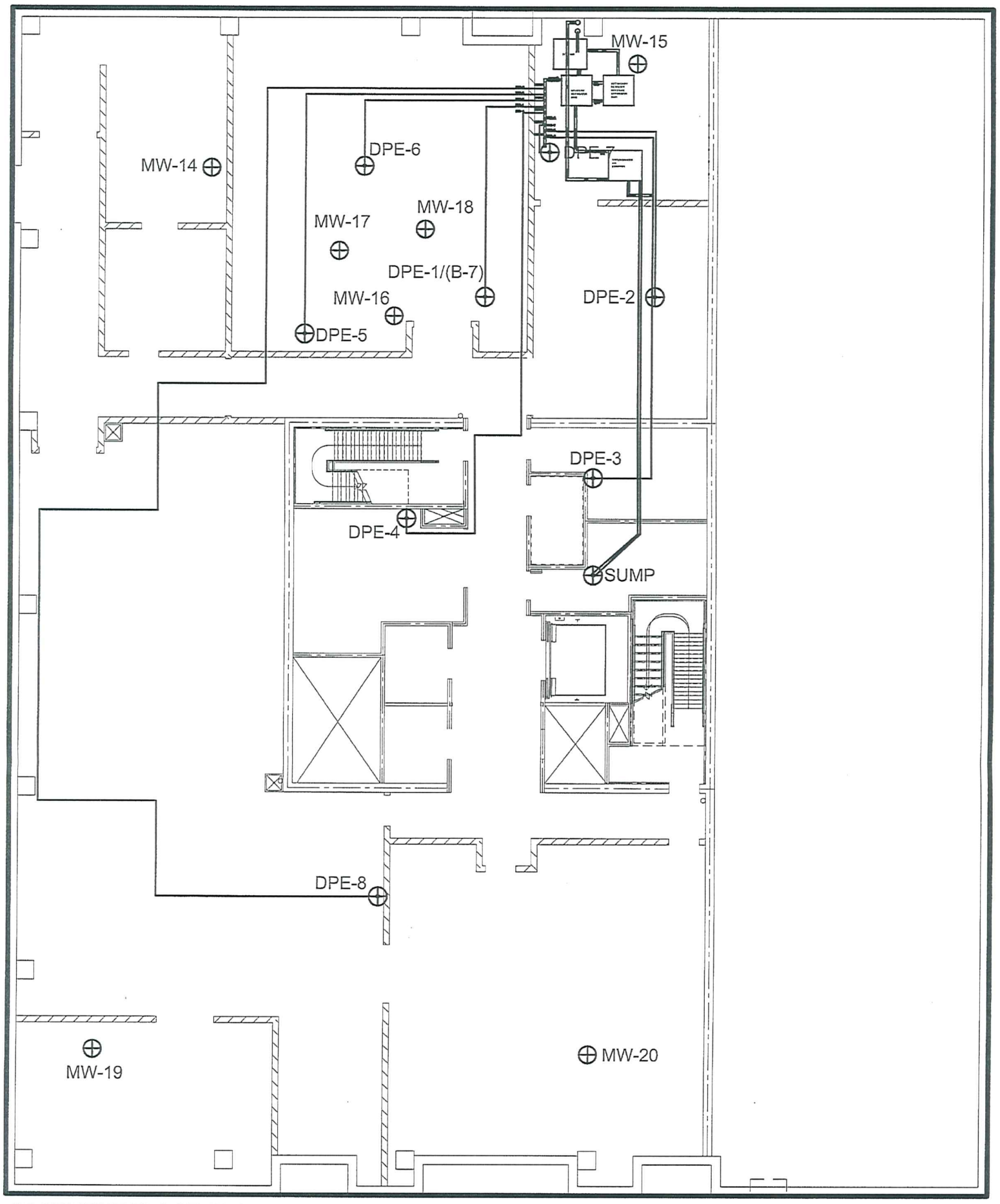
Source: Rochester, Minnesota Topographic Quadrangle, 7.5-Minute Series

N

2,000 1,000 0 2,000 Feet

FIGURE 1

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



BASEMENT FLOOR PLAN

LEGEND

⊕ DPE, Monitoring Well, or Sump Location

DPE Piping Location

Property Boundary

N

20 feet
SCALE

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

Rev	Date	By	Description

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

FIGURE 2

DPE SYSTEM LAYOUT

221 FIRST AVENUE S.W.
ROCHESTER, MINNESOTA

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

AIR STRIPPER AIR EMISSIONS DISCHARGE PIPING TO ATMOSPHERE, IF NECESSARY

DPE SYSTEM AIR EMISSIONS DISCHARGE PIPING TO ATMOSPHERE

AIR

AIR

AIR

AIR

AIR

DPE SKID

⊕MW-15

AIR/WATER

AIR

MOISTURE SEPARATOR SKID

AIR

WATER

SECONDARY DEMISTER MOISTURE SEPARATOR SKID

D.P.E. ROOM 017

383 SF

19'-2" x 20'-0"

DPE-8

DPE-4

DPE-5

DPE-6

DPE-1

DPE-2

DPE-3

DPE-7

⊕ DPE-7

AIR

WATER

WATER

GROUNDWATER AIR STRIPPER

AIR

WATER

WATER

DPE SYSTEM GROUNDWATER DISCHARGE PIPING TO SANITARY SEWER

WATER

DISCHARGE FROM ELEVATOR PIT SUMP

MECHANICAL ROOM

LEGEND

Existing DPE Piping Location

AIR — Proposed Air Emissions Piping Location

WATER — Proposed Groundwater Discharge Piping Location

N

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 4

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

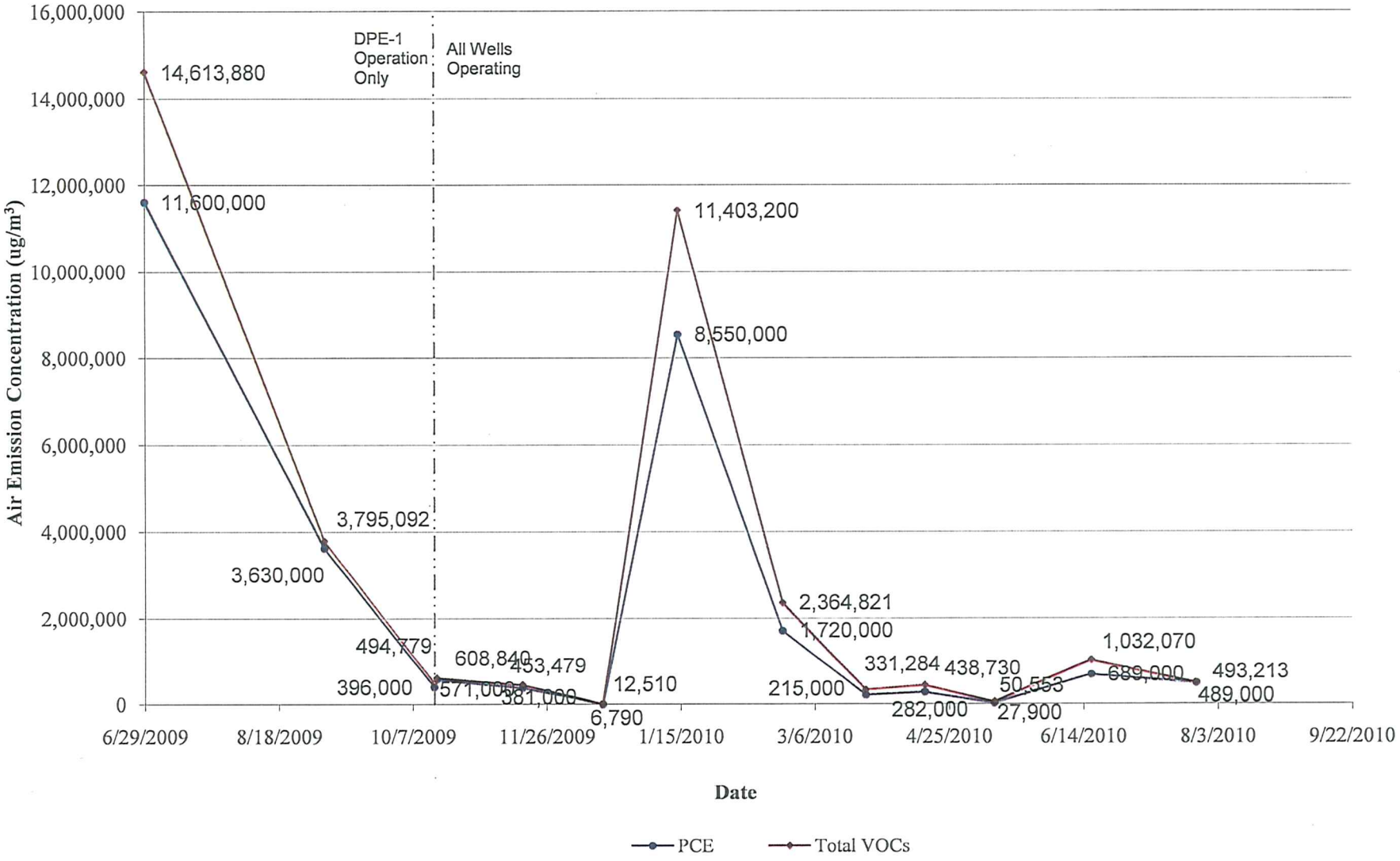


FIGURE 5

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

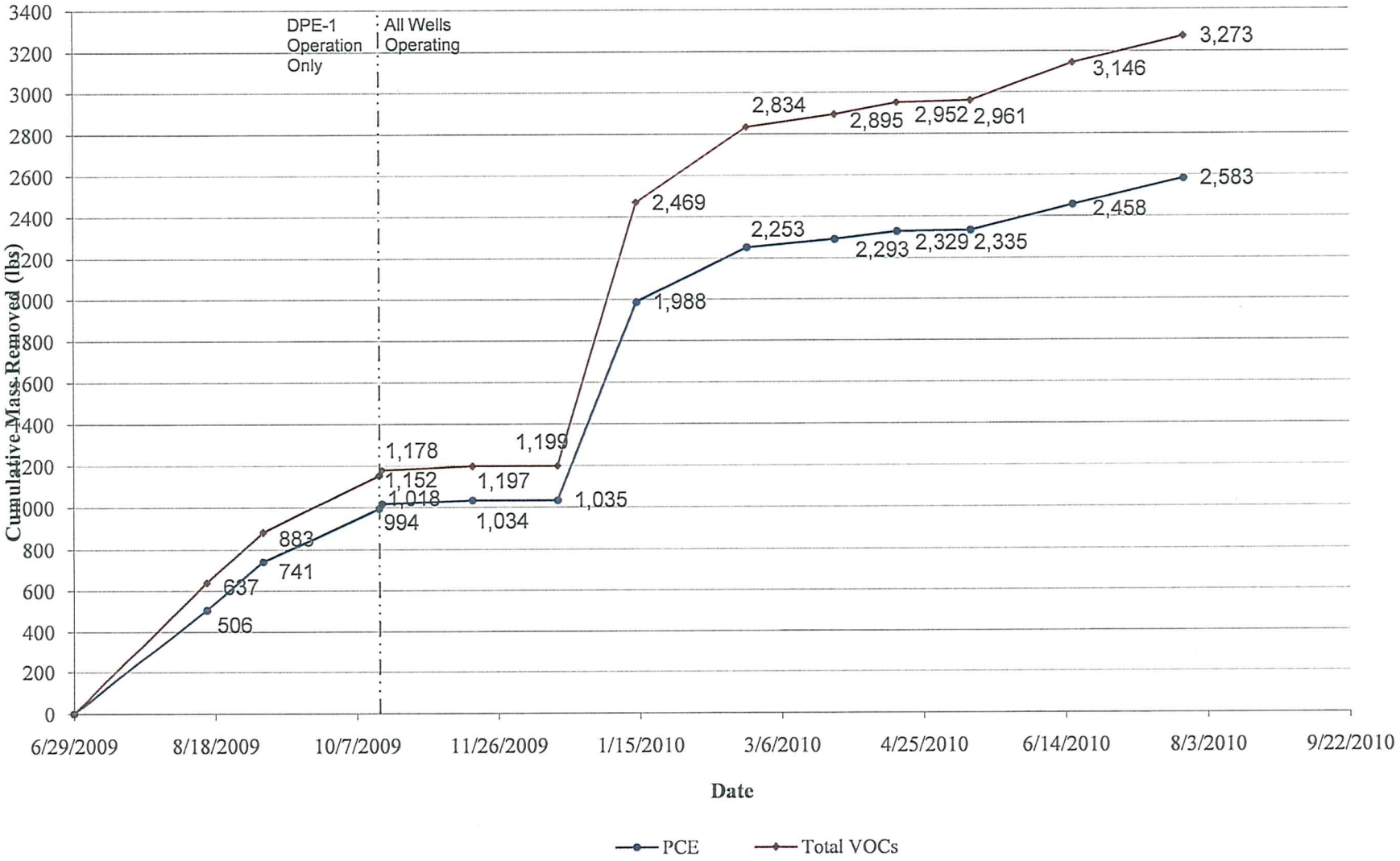


FIGURE 6

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

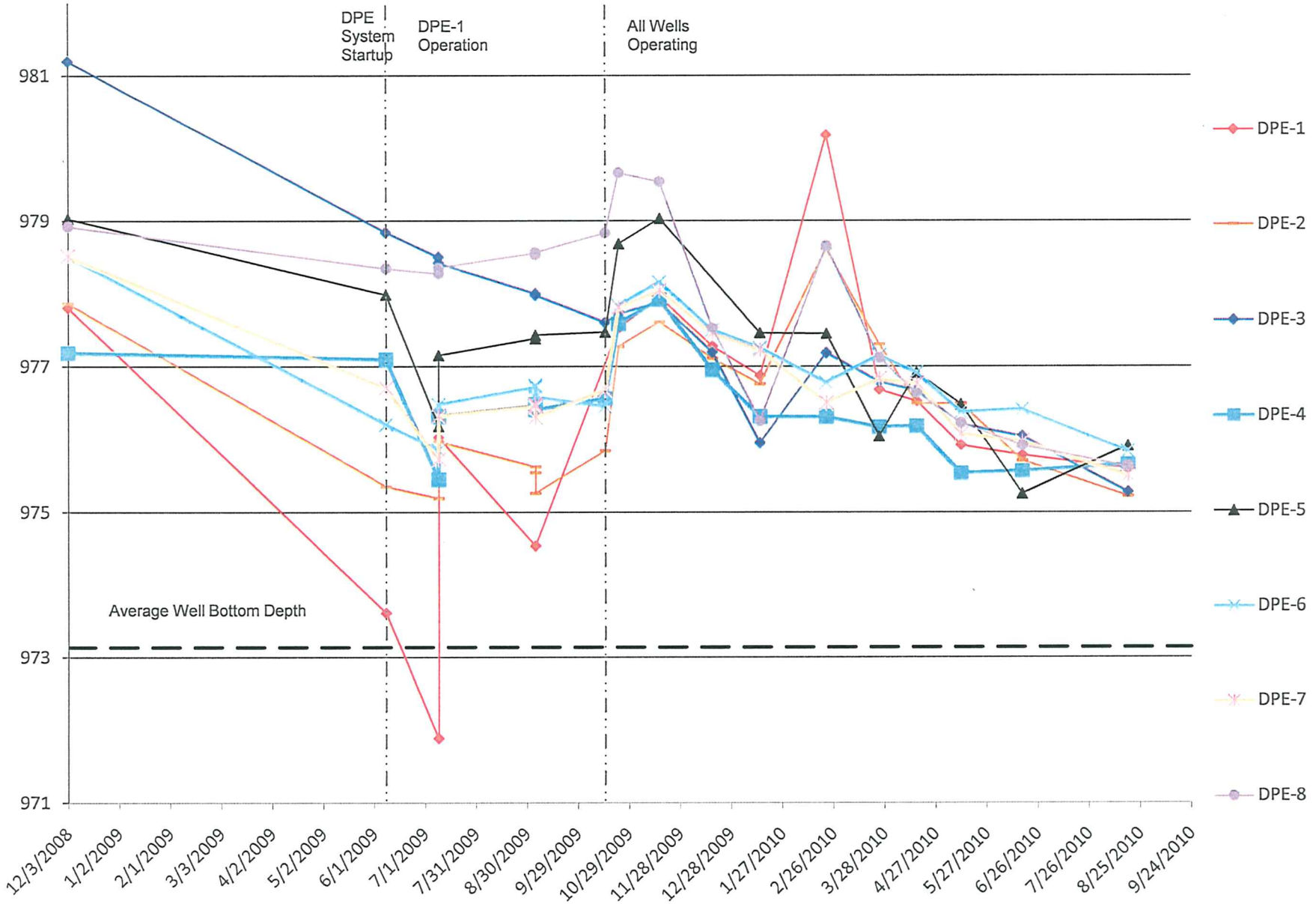
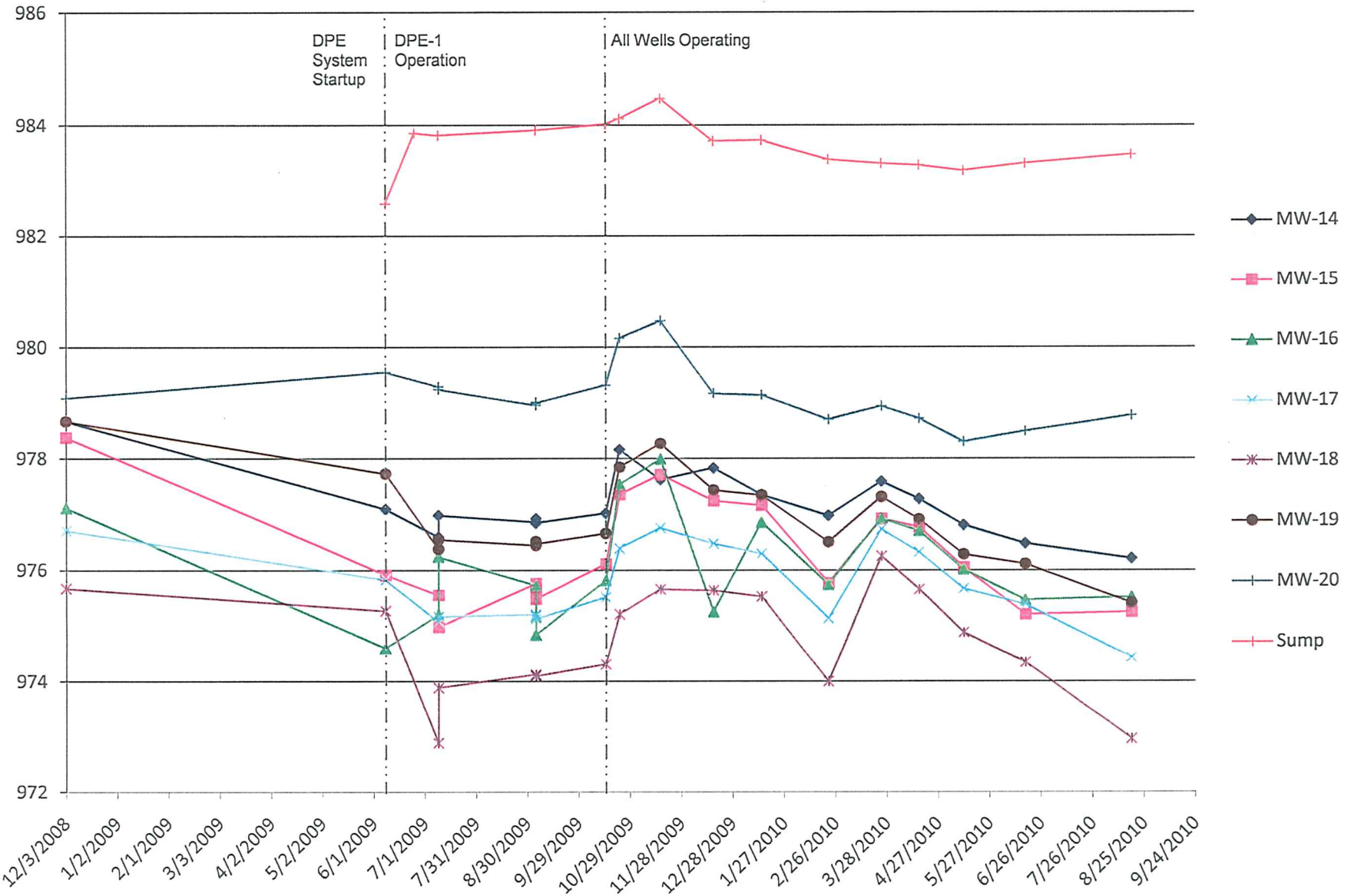
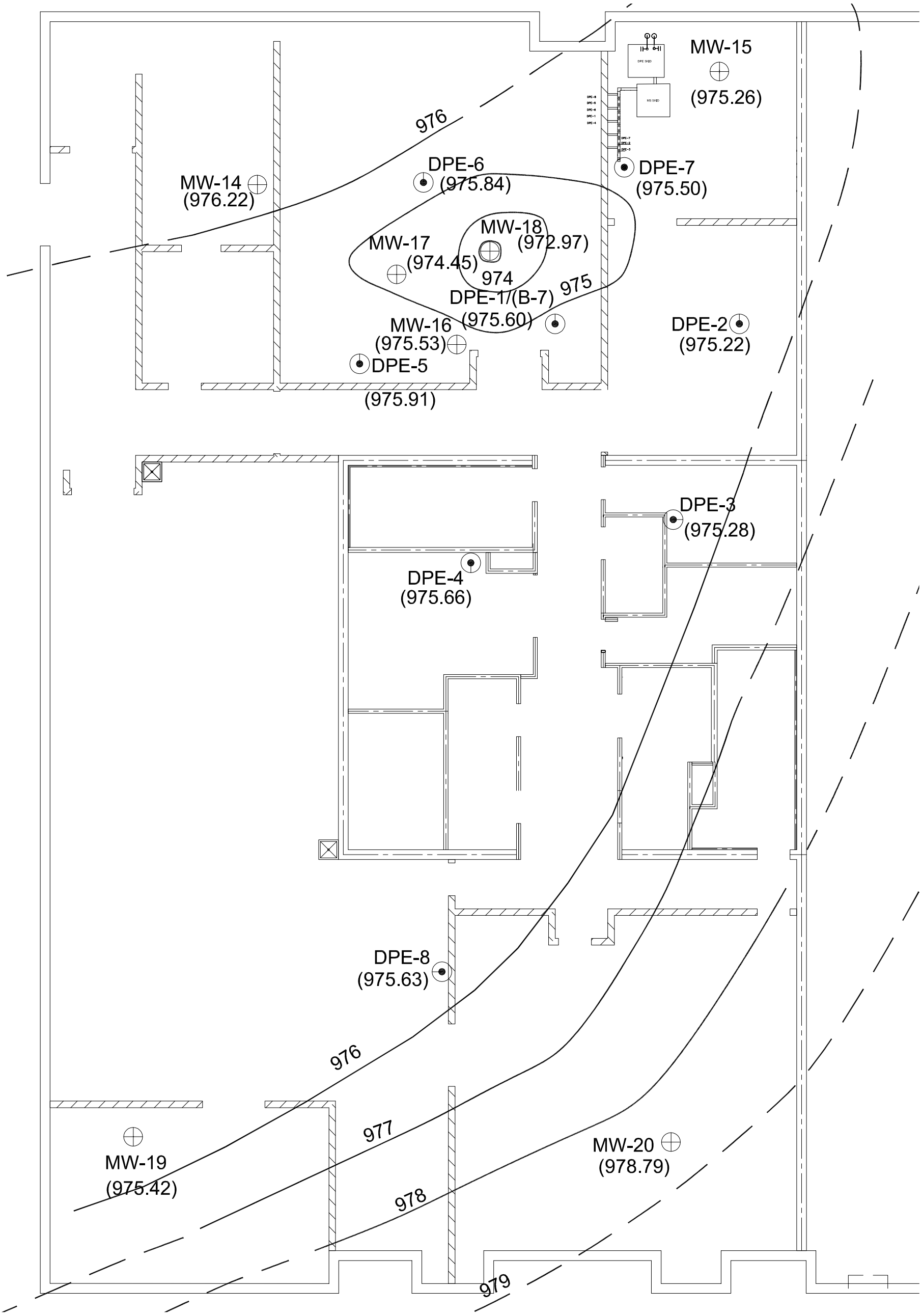


FIGURE 7

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





LEGEND

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

N

10 feet
SCALE

BASE DRAWINGS PROVIDED BY HGA
F:/Projects/CRC/CAD/Groundwater Data/20100818 GW Elev Contours.dwg

Rev	Date	By	Description

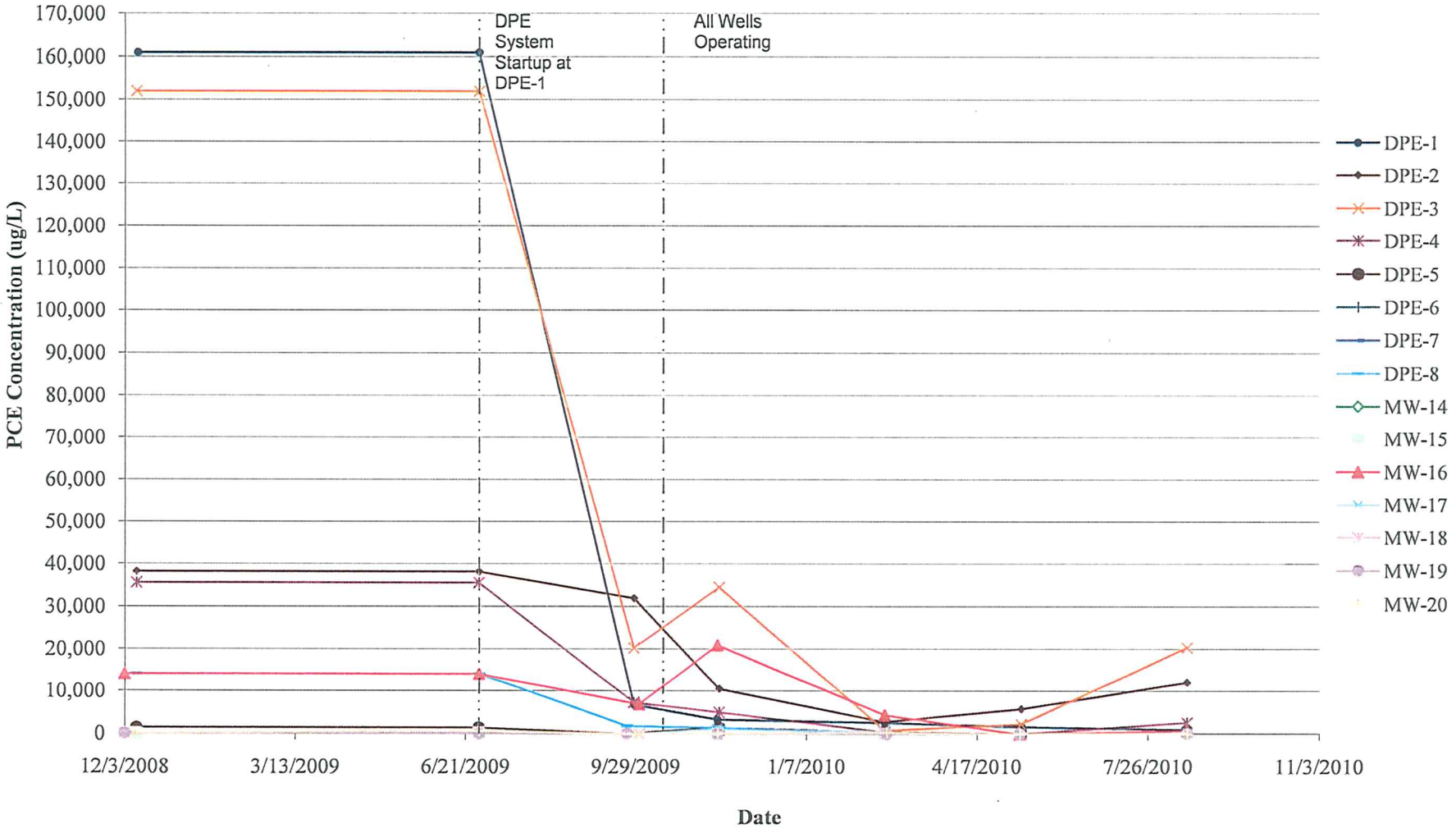
LANDMARK ENVIRONMENTAL, LLC
2042 West 98th Street
Bloomington, MN 55431

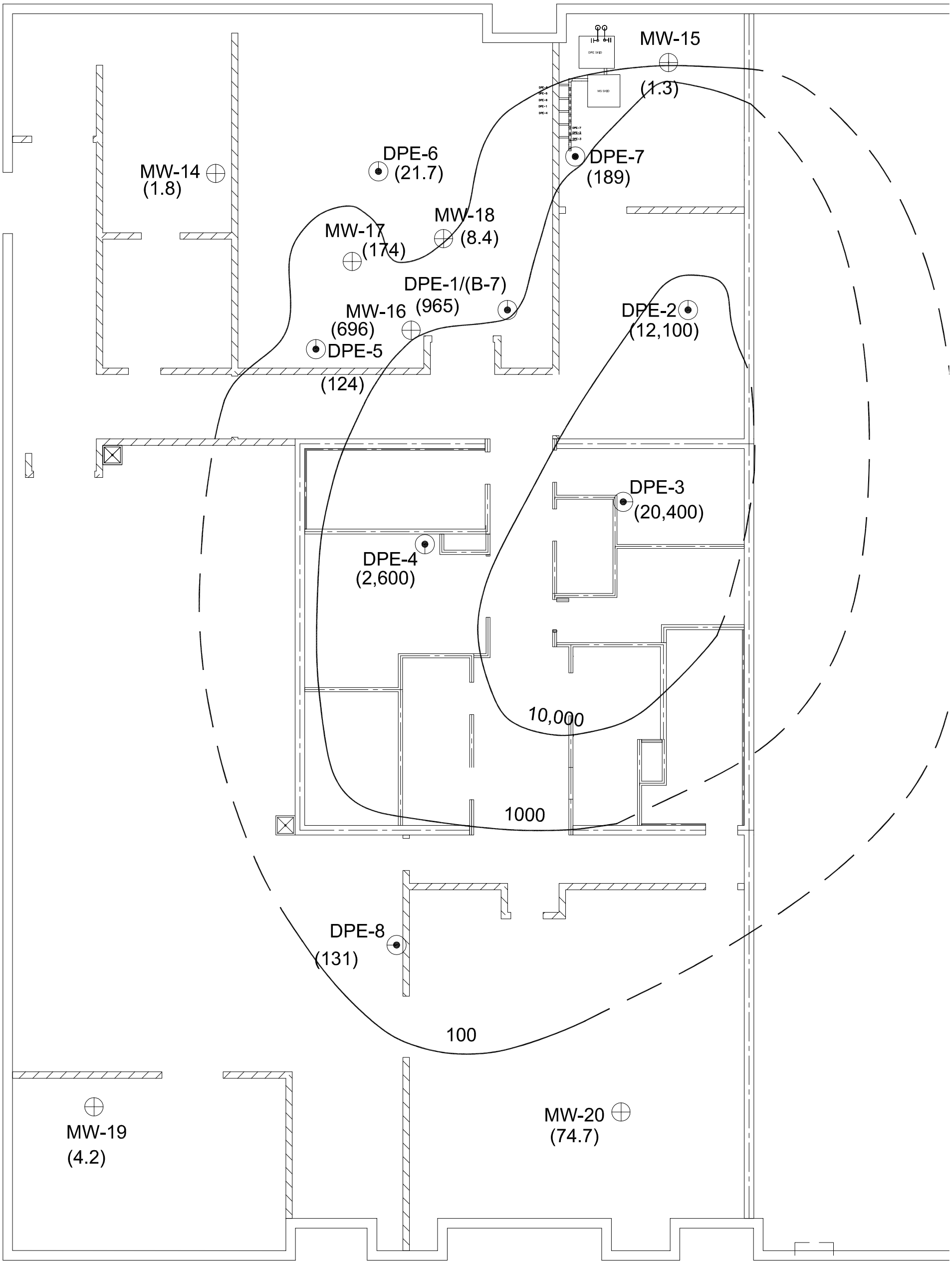
FIGURE 8
GROUNDWATER FLOW INTERPRETATION - AUGUST - 2010
221 FIRST AVENUE S.W.
ROCHESTER, MINNESOTA

Landmark Project Number: CRC		
Drawn: JDS	Checked: JDS	Designed: JDS
Scale: .	Date: 10/18/2010	Revision:
Drawing Number: .	Sheet . Of .	Sheets .

FIGURE 9

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





LEGEND

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

N

10 feet
SCALE

BASE DRAWINGS PROVIDED BY HGA
F:/Projects/CRC/CAD/Groundwater Data/20100818 GW Results.dwg

Rev	Date	By	Description

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

FIGURE 10
PCE GROUNDWATER CONCENTRATION INTERPRETATION
AUGUST 2010
221 FIRST AVENUE S.W.
ROCHESTER, MINNESOTA

Landmark Project Number: CRC		
Drawn: JDS	Checked: JDS	Designed: JDS
Scale: .	Date: 10/18/2010	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 wile operating on DPE-3. Kept system operating on DPE-1. **Sampled groundwater discharge.**
18-Jul-09	NA	No	DPE Pump Motor Fault	On/Off	
20-Jul-09	NA	NA	DPE Pump Motor Fault	Off	Received a call from Paramark stating the DPE was off and there was about 1 quart of oil leaking from the DPE pump.
22-Jul-09	NA	NA	DPE Pump Motor Fault	Off	Landmark onsite to troubleshoot DPE system shut down and determine the source of the oil leak.
24-Jul-09	NA	NA	DPE Pump Motor Fault	Off	Landmark and PLC onsite to remove DPE pump and deliver to John Henry Foster for Repair.

TABLE 1

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

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

TABLE 1

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

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

TABLE 1

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

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

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

TABLE 2

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

Monitoring Period		DPE Well(s) Operating	DPE Pump Hours	Hours Per Period	Total Flow Rate (scfm)	Total VOCs			PCE		
Start Date	End Date					Concentration (ug/m^3)	Pounds Per Period	Cumulative pounds	Concentration (ug/m^3)	Pounds Per Period	Cumulative Pounds
---	6/29/2009		0	0	0	0	0	0	0	0	0
6/29/2009[3]	8/15/2009[1]	DPE-1	478.5	478.5	24.3	14,613,880	636.97	636.97	11,600,000	505.61	505.61
8/15/2009	9/4/2009[2]	DPE-1	957	478.5	36.1	3,795,092	245.74	882.71	3,630,000	235.05	740.66
9/4/2009	---	DPE-1	1428	471	36.1	3,795,092	241.89	1,124.60	3,630,000	231.37	972.02
---	10/15/2009[4]	DPE-1	1899	471	31.6	494,779	27.60	1,152.21	396,000	22.09	994.12
10/16/2009[5]	---	All Wells	1899	231	48.9	608,840	25.78	1,177.99	571,000	24.18	1018.30
---	11/17/2009[5]	All Wells	2361	231	48.9	453,479	19.20	1,197.19	381,000	16.13	1034.43
11/17/2009	12/17/2009[5]	All Wells	2960	599	48.9	12,510	1.37	1,198.56	6,790	0.75	1035.17
12/17/2009	1/14/2010[5]	All Wells	3568	608	48.9	11,403,200	1270.88	2,469.45	8,550,000	952.89	1988.07
1/14/2010	2/22/2010[6]	All Wells	4161	593	69.4	2,364,821	364.82	2,834.27	1,720,000	265.34	2253.41
2/22/2010	3/25/2010[7]	All Wells	4868	707	69.4	331,284	60.93	2,895.20	215,000	39.54	2292.96
3/25/2010	4/16/2010	All Wells	5308	440	77.9	438,730	56.37	2,951.57	282,000	36.23	2329.19
4/16/2010	5/12/2010	All Wells	5908	600	86.9	50,553	9.88	2,961.45	27,900	5.45	2334.64
5/12/2010	6/17/2010	All Wells	6768	860	55.6	1,032,070	184.99	3,146.44	689,000	123.50	2458.14
6/17/2010	7/26/2010	All Wells	7671	903	75.6	493,213	126.21	3,272.65	489,000	125.14	2583.28

Notes:

1. The initial concentrations of total VOCs and PCE used for estimating the mass removed during the first 478.5 hours of system operation, which was estimated to be from, June 29, 2009, through August 15, 2009.
2. The concentrations of total VOCs and PCE from the September 4, 2009, sampling event were used for estimating the mass removed during the remaining 478.5 hours of system operation, which was estimated to be from August 15, 2009, through September 4, 2009.
3. The DPE system was temporarily started on April 9, 2009, for baseling DPE emissions sampling and analysis. The analytical data from April 4, 2009, was used for the emissions calculations on the estimated DPE system start date of June 29, 2009.
4. The flow rate used for the 10/15/09 calculations was from operation at DPE-1.
5. The flow 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.
6. The flow rates used after 1/14/10 were averaged from the flow rates from each well during sequential operation of all DPE wells.
7. There was a typo when entering the DPE pump hours; therefore, this value was revised while entering the data from 4/16/10.

TABLE 3

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

Sample ID	DPE EXHAUST 764	DPE EXHAUST 1248	DPE EXHAUST 764	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	All DPE Wells	All DPE Wells	All DPE Wells
Sample Collection Method	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite
Collected Date	7/26/2010	6/17/2010	5/12/2010	4/16/2010	3/25/2010	2/22/2010	1/14/2010	12/17/2009
1,1,1-Trichloroethane	<79.2	<760	**12.9**	ND	**30.7**	**61**	ND	**23.9**
1,1,2,2-Tetrachloroethane	<101	<968	<2.7	ND	<2.5	ND	ND	ND
1,1,2-Trichloroethane	<79.2	<760	<2.1	ND	<2.0	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	**3,720**	**342,000**	**21,900**	**153,000**	**115,000**	**644,000**	**2,720,000**	**4,440**
1,1-Dichloroethane	<59.0	<567	<1.6	ND	<1.5	ND	ND	ND
1,1-Dichloroethene	<58.3	<560	<1.6	ND	**3.0**	**7.66**	ND	ND
1,2,4-Trichlorobenzene	<71.3	<684	<1.9	ND	<1.8	ND	ND	ND
1,2,4-Trimethylbenzene	<180	<1730	<4.8	ND	**12.8**	ND	ND	ND
1,2-Dibromoethane (EDB)	<115	<1110	<3.1	ND	<2.9	ND	ND	ND
1,2-Dichlorobenzene	<86.4	<829	**5.5**	ND	<2.2	ND	ND	ND
1,2-Dichloroethane	<59.0	<567	<1.6	ND	<1.5	ND	ND	ND
1,2-Dichloropropane	<67.7	<650	**2.5**	ND	<1.7	**7.05**	ND	ND
1,3,5-Trimethylbenzene	<180	<1730	<4.8	ND	<4.5	ND	ND	ND
1,3-Butadiene	<32.4	<311	<0.87	ND	<0.81	ND	ND	ND
1,3-Dichlorobenzene	<86.4	<829	<2.3	ND	<2.2	ND	ND	ND
1,4-Dichlorobenzene	<86.4	<829	**3.7**	ND	<2.2	ND	ND	ND
2-Butanone (MEK)	<43.2	<415	**18.0**	ND	**44.2**	**12.9**	ND	ND
2-Hexanone	<59.8	<574	<1.6	ND	<1.5	ND	ND	ND
2-Propanol	<180	<1730	**7.9**	ND	**19.0**	NA	NA	NA
4-Ethyltoluene	<180	<1730	<4.8	ND	<4.5	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	<59.8	<574	<1.6	ND	<1.5	ND	ND	ND
Acetone	**74.8**	<332	**509**	ND	**163**	**84.5**	**76,800**	**126**
Benzene	<46.8	<449	<1.3	ND	<1.2	ND	ND	**16.2**
Benzyl chloride	<1210	<726	<2.0	ND	<1.9	NA	NA	NA
Bromodichloromethane	<101	<968	<2.7	ND	<2.5	ND	ND	ND
Bromoform	<151	<1450	<4.1	ND	<3.8	ND	ND	ND
Bromomethane	<56.9	<546	<1.5	ND	<1.4	ND	ND	ND
Carbon disulfide	<45.4	<435	**7.7**	ND	**1.3**	ND	ND	ND
Carbon tetrachloride	<93.6	<899	<2.5	ND	<2.3	ND	ND	ND
Chlorobenzene	<67.7	<650	**3.1**	ND	<1.7	ND	ND	ND
Chloroethane	<38.9	<373	<1.0	ND	<0.97	ND	ND	ND
Chloroform	<71.3	<684	**4.9**	ND	**11.3**	**15.4**	ND	ND
Chloromethane	<30.2	<290	**9.6**	ND	<0.76	ND	ND	ND
cis-1,2-Dichloroethene	**272**	**1,070**	**33.6**	ND	**80.2**	**198**	ND	**47.2**
cis-1,3-Dichloropropene	<66.2	<636	<1.8	ND	<1.7	ND	ND	ND
Cyclohexane	<49.0	<470	**3.7**	ND	**2.2**	**14.3**	ND	**766**
Dibromochloromethane	<122	<1180	<3.3	ND	<3.1	ND	ND	ND
Dichlorodifluoromethane	<72.0	<691	**4.1**	ND	**11.0**	ND	ND	ND
Dichlorotetrafluoroethane	<101	<968	<2.7	ND	<2.5	ND	ND	ND
Ethanol	<2190	<1310	**67.3**	ND	**26.1**	NA	NA	NA
Ethyl acetate	<52.6	<505	<1.4	ND	<1.3	ND	ND	ND
Ethylbenzene	<63.4	<608	<1.7	ND	**118**	ND	ND	ND
Hexachloro-1,3-butadiene	<158	<1520	<4.2	ND	<4.0	ND	ND	ND
m&p-Xylene	<127	<1220	**5.1**	ND	**456**	ND	ND	ND
Methylene Chloride	<51.1	<491	<1.4	ND	<1.3	ND	ND	**270**
Methyl-tert-butyl ether	<52.6	<505	<1.4	ND	<1.3	ND	ND	ND
Naphthalene	<194	<1870	<5.2	ND	<4.9	NA	NA	NA
n-Heptane	<59.8	<574	**2.0**	ND	**2.7**	ND	ND	ND
n-Hexane	<51.8	<498	<1.4	ND	**4.7**	**135**	ND	ND
o-Xylene	<63.4	<608	**1.8**	ND	**159**	ND	ND	ND
Propylene	<25.2	<242	<0.68	ND	<0.63	ND	ND	ND
Styrene	<62.6	<601	<1.7	ND	<1.6	ND	ND	ND
Tetrachloroethene	**489,000**	**689,000**	**27,900**	**282,000**	**215,000**	**1,720,000**	**8,550,000**	**6,790**
Tetrahydrofuran	**45.3**	<415	**15.0**	ND	**58.0**	**45.6**	**56,400**	ND
Toluene	<55.4	<532	**8.0**	ND	**28.4**	**124**	ND	**9.58**
trans-1,2-Dichloroethene	<58.3	<560	<1.6	ND	<1.5	ND	ND	ND
trans-1,3-Dichloropropene	<66.2	<636	<1.8	ND	<1.7	ND	ND	ND
Trichloroethene	**101**	<760	**24.5**	**3,730**	**43.7**	**116**	ND	**21.3**
Trichlorofluoromethane	<79.2	<760	<2.1	ND	<2.0	ND	ND	ND
Vinyl acetate	<51.1	<491	**3.0**	ND	**8.9**	ND	ND	ND
Vinyl chloride	<37.4	<359	<1.0	ND	<0.94	ND	ND	ND
Total VOCs	**493,213**	**1,032,070**	**50,553**	**438,730**	**331,284**	**2,364,821**	**11,403,200**	**12,510**

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

Notes:
Bold: parameter detected above the repor
NA: Not Analyzed.

TABLE 4

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

Date	DPE Wells Operating	Parameter	Concentration (ug/m^3)	Emissions Rates				
				DPE (ug per sec)	AS (ug per sec)	Site Specific (ug per sec)	SER for Chronic Risk (ug per sec)	SER for Acute Risk (ug per sec)
9/4/2009	DPE-1	Tetrachloroethylene	3,630,000	61,710	70	**61,780**	16,300	5,980,000
10/15/2009	DPE-1	Tetrachloroethylene	396,000	5,940	6	5,946	16,300	5,980,000
10/16/2009	All Wells	Tetrachloroethylene	571,000	8,565	6	8,571	16,300	5,980,000
11/17/2009	All Wells	Tetrachloroethylene	381,000	4,953	0.5	4,953	16,300	5,980,000
12/17/2009	All Wells	Tetrachloroethylene	6,790	197	0.5	197	16,300	5,980,000
1/14/2010	All Wells	Tetrachloroethylene	8,550,000	393,300	4	**393,304**	16,300	5,980,000
2/22/2010	All Wells	Tetrachloroethylene	1,720,000	82,560	1	**82,561**	16,300	5,980,000
3/25/2010	All Wells	Tetrachloroethylene	215,000	11,180	2	11,182	16,300	5,980,000
4/16/2010	All Wells	Tetrachloroethylene	282,000	9,588	1	9,589	16,300	5,980,000
5/12/2010	All Wells	Tetrachloroethylene	27,900	1,729	1	1,730	16,300	5,980,000
6/17/2010	All Wells	Tetrachloroethylene	689,000	11,713	4	11,717	16,300	5,980,000
7/26/2010	All Wells	Tetrachloroethylene	489,000	22,983	1	**22,984**	16,300	5,980,000

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

Table 5

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

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

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

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[3]
Collected Date	7/26/2010 12:00	7/26/2010 12:05	6/17/2010 9:45	6/17/2010 9:48	5/12/2010 14:30	5/12/2010 14:35	4/16/2010 12:00	4/16/2010 12:01
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	<1.0	<1.0	**2.6**	<1.0	**2.5**	<1.0	**1.4**	<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	<4.0	<4.0	**4.9**
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	<10.0	<10.0	**13.3**	<10.0	<10.0	<10.0	**29.3**
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	<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	**7.2**	**8.7**	<4.0	<4.0	**10.7**	**491**
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	**1.5**	<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	<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	<1.0	**40.6**	**108**	**2.4**	**63.4**	<1.0	**48.6**	<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	<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	<3.0
Total VOC Concentration	0	40.6	119.3	15.7	65.9	0	60.7	525.2

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[3]	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent	AS-Influent	AS-IN Vial 2	AS-Effluent
Collected Date	3/25/2010 8:00	3/25/2010 8:00	2/22/2010 14:30	2/22/2010 14:45	1/14/2010 9:30	1/14/2010 9:40	12/17/2009 10:00	12/17/2009 10:00	12/17/2009 10:01
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,1,2-Trichlorotrifluoroethane	**1.0**	<1.0	**2.1**	<1.0	**1.3**	<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	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	**4.9**	**7.5**	<4.0	<4.0	**7.0**	<4.0	<4.0	<4.0	<4.0
2-Chloroethylvinyl ether	<10.0	<10.0	<10.0	<10.0	<25.0	<25.0	<25.0	<25.0	<25.0
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	**11.2**	**29.8**	<10.0	<10.0	**14.6**	<10.0	<10.0	<10.0	<10.0
Acrolein	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
Acrylonitrile	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Allyl chloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromoform	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Bromomethane	**37.3**	**38.0**	<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	<4.0	<4.0	<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	<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	**380**	**644**	<4.0	<4.0	**98.5**	**31.9**	<1.0	<1.0	**1.3**
Chloroprene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	<1.0	<1.0	**1.3**	<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	**17.3**	**18.9**	<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	**3.4**	<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	**1.6**	<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	**55.5**	<1.0	**69.6**	<1.0	**157**	<1.0	<1.0	<1.0	**22.7**
Tetrahydrofuran	<10.0	**20.3**	<10.0	**15.7**	**29.4**	<10.0	**11.7**	**11.5**	<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	**4.9**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Total VOC Concentration	**507.2**	**763.5**	**73**	**15.7**	**308.8**	**31.9**	**11.7**	**11.5**	**24**

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
Collected Date	11/16/2009 10:10	11/16/2009 10:20	10/15/2009 14:50	10/15/2009 14:50	9/4/2009 10:55	9/4/2009 10:55
1,1,1,2-Tetrachloroethane	<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
1,1,2,2-Tetrachloroethane	<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
1,1,2-Trichlorotrifluoroethane	<1.0	<1.0	**1.4**	<1.0	**1.2**	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	<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
1,2,3-Trichlorobenzene	<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
1,2,4-Trichlorobenzene	<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
1,2-Dibromo-3-chloropropane	<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
1,2-Dichlorobenzene	<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
1,2-Dichloropropane	<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
1,3-Dichlorobenzene	<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
1,4-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0
2-Butanone (MEK)	<4.0	<4.0	**5.4**	<4.0	**13.5**	**19.8**
2-Chloroethylvinyl ether	<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
2-Hexanone	<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
4-Chlorotoluene	<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
Acetone	<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
Acrylonitrile	<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
Benzene	<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
Bromochloromethane	<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
Bromoform	<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
Carbon disulfide	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0
Chlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	<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
Chloromethane	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0
Chloroprene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	<1.0	<1.0	**1.5**	<1.0	**1.5**	<1.0
cis-1,3-Dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	<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
Dichlorodifluoromethane	<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
Diethyl ether (Ethyl ether)	<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
Hexachloro-1,3-butadiene	<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
Isopropylbenzene (Cumene)	<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
Methylene Chloride	<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
Naphthalene	<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
n-Propylbenzene	<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
p-Isopropyltoluene	<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
Styrene	<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
Tetrachloroethene	**30.7**	<1.0	**214**	<1.0	**175**	<1.0
Tetrahydrofuran	<10.0	<10.0	**15.7**	<10.0	<10.0	<10.0
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<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
Trichloroethene	<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
Vinyl acetate	<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
Xylene (Total)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Total VOC Concentration	**30.7**	**0**	**238**	**0**	**191.2**	**19.8**

Bold : Parameter detected above the reporting limit.

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

[1]: Initial sampling event to determine if groundwater treatment was necessary.

[2]: Increase in VOCs was from PVC glue and cement from construction of the DPE system and air stripper.

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

TABLE 6

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

Sample ID	AS-INFLUENT	AS-EFFLUENT	AS INFLUENT	AS EFFLUENT[2]	DPE Discharge[1]
Collected Date	7/9/2009 12:20	7/9/2009 12:25	06/04/2009 17:00	06/04/2009 17:25	04/09/2009 16:35
1,1,1,2-Tetrachloroethane	<5.0	<1.0	<50.0	<1.0	<5.0
1,1,1-Trichloroethane	<5.0	<1.0	<50.0	<1.0	**29.4**
1,1,2,2-Tetrachloroethane	<5.0	<1.0	<50.0	<1.0	<5.0
1,1,2-Trichloroethane	<20.0	<4.0	<200	<4.0	<20.0
1,1,2-Trichlorotrifluoroethane	**10.4**	<1.0	**53.7**	<1.0	**7860**
1,1-Dichloroethane	<5.0	<1.0	<50.0	<1.0	<5.0
1,1-Dichloroethene	<5.0	<1.0	<50.0	<1.0	<5.0
1,1-Dichloropropene	<5.0	<1.0	<50.0	<1.0	<5.0
1,2,3-Trichlorobenzene	<5.0	<1.0	<50.0	<1.0	<5.0
1,2,3-Trichloropropane	<5.0	<1.0	<50.0	<1.0	<5.0
1,2,4-Trichlorobenzene	<5.0	<1.0	<50.0	<1.0	<5.0
1,2,4-Trimethylbenzene	<5.0	<1.0	<50.0	<1.0	**26.0**
1,2-Dibromo-3-chloropropane	<20.0	<4.0	<200	<4.0	<20.0
1,2-Dibromoethane (EDB)	<5.0	<1.0	<50.0	<1.0	<5.0
1,2-Dichlorobenzene	<5.0	<1.0	<50.0	<1.0	<5.0
1,2-Dichloroethane	<5.0	<1.0	<50.0	<1.0	<5.0
1,2-Dichloropropane	<5.0	<1.0	<50.0	<1.0	<5.0
1,3,5-Trimethylbenzene	<5.0	<1.0	<50.0	<1.0	**7.1**
1,3-Dichlorobenzene	<5.0	<1.0	<50.0	<1.0	<5.0
1,3-Dichloropropane	<5.0	<1.0	<50.0	<1.0	<5.0
1,4-Dichlorobenzene	<5.0	<1.0	<50.0	<1.0	**7.8**
2,2-Dichloropropane	<5.0	<1.0	<50.0	<1.0	<5.0
2-Butanone (MEK)	<20.0	**82.1**	<200	**1670**	**392**
2-Chloroethylvinyl ether	<50.0	<10.0	<1250	<25.0	<50.0
2-Chlorotoluene	<5.0	<1.0	<50.0	<1.0	**51.0**
2-Hexanone	<20.0	<4.0	<200	<4.0	<20.0
2-Methylnaphthalene	<25.0	<5.0	<250	<5.0	<25.0
4-Chlorotoluene	<5.0	<1.0	<50.0	<1.0	<5.0
4-Methyl-2-pentanone (MIBK)	<25.0	<5.0	<250	<5.0	<25.0
Acetone	<50.0	**68.7**	<500	**987**	<50.0
Acrolein	<200	<40.0	<2000	<40.0	<200
Acrylonitrile	<50.0	<10.0	<500	<10.0	<50.0
Allyl chloride	<20.0	<4.0	<200	<4.0	<20.0
Benzene	<5.0	<1.0	<50.0	<1.0	<5.0
Bromobenzene	<5.0	<1.0	<50.0	<1.0	<5.0
Bromochloromethane	<5.0	<1.0	<50.0	<1.0	<5.0
Bromodichloromethane	<20.0	<4.0	<200	<4.0	<20.0
Bromoform	<40.0	<8.0	<400	<8.0	<40.0
Bromomethane	<20.0	<4.0	<200	<4.0	<20.0
Carbon disulfide	<5.0	<1.0	<50.0	<1.0	<5.0
Carbon tetrachloride	<5.0	<1.0	<50.0	<1.0	<5.0
Chlorobenzene	<5.0	<1.0	<50.0	<1.0	<5.0
Chloroethane	<5.0	<1.0	<50.0	<1.0	<5.0
Chloroform	<5.0	<1.0	<50.0	<1.0	<5.0
Chloromethane	**63.3**	**76.4**	<50.0	<1.0	<5.0
Chloroprene	<5.0	<1.0	<50.0	<1.0	<5.0
cis-1,2-Dichloroethene	**13.0**	<1.0	**62.9**	<1.0	**206**
cis-1,3-Dichloropropene	<20.0	<4.0	<200	<4.0	<20.0
Dibromochloromethane	<5.0	<1.0	<50.0	<1.0	<5.0
Dibromomethane	<5.0	<1.0	<50.0	<1.0	<5.0
Dichlorodifluoromethane	<5.0	<1.0	<50.0	<1.0	<5.0
Dichlorofluoromethane	<5.0	<1.0	<50.0	<1.0	<5.0
Diethyl ether (Ethyl ether)	<20.0	<4.0	<200	<4.0	<20.0
Ethylbenzene	<5.0	<1.0	<50.0	<1.0	<5.0
Hexachloro-1,3-butadiene	<20.0	<4.0	<200	<4.0	<20.0
Iodomethane	<20.0	<4.0	<200	<4.0	<20.0
Isopropylbenzene (Cumene)	<5.0	<1.0	<50.0	<1.0	<5.0
m&p-Xylene	<10.0	<2.0	<100	<2.0	<10.0
Methylene Chloride	<20.0	<4.0	<200	<4.0	<20.0
Methyl-tert-butyl ether	<5.0	<1.0	<50.0	<1.0	<5.0
Naphthalene	<20.0	<4.0	<200	<4.0	<20.0
n-Butylbenzene	<5.0	<1.0	<50.0	<1.0	5.0
n-Propylbenzene	<5.0	<1.0	<50.0	<1.0	<5.0
o-Xylene	<5.0	<1.0	<50.0	<1.0	<5.0
p-Isopropyltoluene	<5.0	<1.0	<50.0	<1.0	<5.0
sec-Butylbenzene	<5.0	<1.0	<50.0	<1.0	<5.0
Styrene	<5.0	<1.0	<50.0	<1.0	<5.0
tert-Butylbenzene	<5.0	<1.0	<50.0	<1.0	<5.0
Tetrachloroethene	**1460**	<1.0	**3970**	**33.8**	**167000**
Tetrahydrofuran	<50.0	**252**	**543**	**6300**	**600**
Toluene	<5.0	<1.0	<50.0	<1.0	<5.0
trans-1,2-Dichloroethene	<5.0	<1.0	<50.0	<1.0	<5.0
trans-1,3-Dichloropropene	<20.0	<4.0	<200	<4.0	<20.0
Trichloroethene	<5.0	<1.0	<50.0	<1.0	**159**
Trichlorofluoromethane	<20.0	<4.0	<200	<4.0	<20.0
Vinyl acetate	<100	<20.0	<1000	<20.0	<100
Vinyl chloride	<2.0	<0.40	<20.0	<0.40	<2.0
Xylene (Total)	<15.0	<3.0	<150	<3.0	<15.0
Total VOC Concentration	1,546.7	479.2	4,566.7	8,990.8	176,338.3

Bold : Parameter detected above the reporting limit.

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

[1]: Initial sampling event to determine if groundwater treatment was necessary.

[2]: Increase in VOCs was from PVC glue and cement from construction of the DPE system and air stripper.

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

TABLE 7

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

Well ID	Date Measured	Top of Casing Elevation[1,2]	Depth to Groundwater (feet)	Groundwater Elevation[3]	System Status
MW-14	12/3/2008	989.50	10.82	978.68	pre-system installation
MW-14	6/8/2009	989.50	12.40	977.10	pre-system startup
MW-14	7/9/2009	989.50	12.90	976.60	DPE system on DPE-1
MW-14	7/9/2009	989.50	12.51	976.99	DPE system temporarily off
MW-14	9/4/2009	989.50	12.63	976.87	DPE system on
MW-14	9/4/2009	989.50	12.57	976.93	DPE system on after replacing inlet screen
MW-14	9/4/2009	989.50	12.65	976.85	DPE system on after replacing inlet filter
MW-14	10/15/2009	989.50	12.47	977.03	DPE system on DPE-1
MW-14	10/23/2009	989.50	11.33	978.17	DPE system off
MW-14	11/16/2009	989.50	11.87	977.63	DPE System on all wells
MW-14	12/17/2009	989.50	11.66	977.84	DPE System on all wells
MW-14	1/14/2010	989.50	12.14	977.36	DPE System on all wells
MW-14	2/22/2010	989.50	12.51	976.99	DPE System on all wells
MW-14	3/25/2010	989.50	11.90	977.60	DPE System on all wells
MW-14	4/16/2010	989.50	12.21	977.29	DPE System on all wells
MW-14	5/12/2010	989.50	12.68	976.82	DPE System on all wells
MW-14	6/17/2010	989.50	13.01	976.49	DPE System on all wells
MW-14	8/18/2010	989.50	13.28	976.22	DPE System on all wells
MW-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-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

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	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-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-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

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-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
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

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	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-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-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

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-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-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

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	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-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-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

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	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
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

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	8/18/2010	990.20	6.72	983.48	DPE System on all wells

Notes:
NR: Not Recorded

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

TABLE 8

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

MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

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

Notes:

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

TABLE 9

PCE 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
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
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
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
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
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

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
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
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
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
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
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

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
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
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

TABLE 10

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

Sample ID	MDH Health	DPE-1	DPE-1	DPE-1	DPE-1	DPE-1	DPE-1	DPE-1
Collected Date and Time	Risk Limits 5/09	8/18/2010	5/13/2010	2/22/2010	11/16/2009 19:50	09/28/2009 12:52	12/10/2008 13:50	8/7/2008 17:00
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

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-2 8/18/2010	DPE-2 5/13/2010	DPE-2 2/22/2010	DPE-2 11/17/2009 09:40	DPE-2 09/28/2009 14:22	DPE-2 12/10/2008 11:45
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	<500	<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

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 8/18/2010	DPE-3 5/13/2010	DPE-3 2/22/2010	DPE-3 11/17/2009 10:15	DPE-3 09/28/2009 15:25	DPE-3 12/10/2008 10:57
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

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 8/18/2010	DPE-4 5/13/2010	DPE-4 2/22/2010	DPE-4 11/17/2009 10:50	DPE-4 09/28/2009 10:13	DPE-4 12/10/2008 11:20
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

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	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5
Collected Date and Time	5/09	8/18/2010	5/13/2010	2/22/2010	11/17/2009 11:00	09/24/2009 04:00	12/10/2008 16:45
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

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	DPE-6	DPE-6	DPE-6	DPE-6	DPE-6	DPE-6
Collected Date and Time	5/09	8/18/2010	5/13/2010	2/22/2010	11/17/2009 11:30	09/24/2009 04:30	12/10/2008 14:29
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

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	DPE-7	DPE-7	DPE-7	DPE-7	DPE-7	DPE-7
Collected Date and Time	5/09	8/18/2010	5/13/2010	2/22/2010	11/17/2009 11:50	09/24/2009 05:00	12/10/2008 13:15
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

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	DPE-8	DPE-8	DPE-8	DPE-8	DPE-8	DPE-8
Collected Date and Time	5/09	8/18/2010	5/13/2010	2/22/2010	11/17/2009 12:30	09/24/2009 05:30	12/10/2008 09:30
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

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

TABLE 10

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

Sample ID	MDH Health	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14
Collected Date and Time	Risk Limits 5/09	8/18/2010	5/12/2010	2/23/2010	11/16/2009 15:40	10/01/2009 04:00	12/03/2008 16:20
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

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-15 8/18/2010	MW-15 5/12/2010	MW-15 2/22/2010	MW-15 11/16/2009 17:00	MW-15 10/01/2009 04:20	MW-15 12/10/2008 12:15
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

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 8/18/2010	MW-16 5/12/2010	MW-16 2/22/2010	MW-16 11/16/2009 19:20	MW-16 10/01/2009 04:25	MW-16 12/03/2008 12:35
1,1,1,2-Tetrachloroethane	70	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,1,1-Trichloroethane	9000	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,1,2,2-Tetrachloroethane	2	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,1,2-Trichloroethane	3	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	63.8	39.3	261	1,390	779	NA*
1,1-Dichloroethane	70	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,1-Dichloroethene	6	<5.0	<10.0	<50.0	<250	<10.0	<1.0
1,1-Dichloropropene	NL	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2,3-Trichlorobenzene	NL	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2,3-Trichloropropane	40	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2,4-Trichlorobenzene	NL	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2,4-Trimethylbenzene	NL	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2-Dibromo-3-chloropropane	NL	<20.0	<40.0	<200	<1000	<40.0	NA*
1,2-Dibromoethane (EDB)	.004	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2-Dichlorobenzene	600	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2-Dichloroethane	4	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2-Dichloropropane	5	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,3,5-Trimethylbenzene	100	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,3-Dichlorobenzene	NL	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,3-Dichloropropane	NL	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,4-Dichlorobenzene	10	<5.0	<10.0	<50.0	<250	<10.0	NA*
2,2-Dichloropropane	NL	<20.0	<40.0	<200	<1000	<10.0	NA*
2-Butanone (MEK)	4000	<20.0	<40.0	<200	<1000	<40.0	NA*
2-Chlorotoluene	NL	<5.0	<10.0	<50.0	<250	<10.0	NA*
4-Chlorotoluene	NL	<5.0	<10.0	<50.0	<250	<10.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<20.0	<40.0	<200	<1000	<40.0	NA*
Acetone	700	<50.0	<100	<500	<2500	<100	NA*
Allyl chloride	30	<20.0	<40.0	<200	<1000	<40.0	NA*
Benzene	2	<5.0	<10.0	<50.0	<250	<10.0	NA*
Bromobenzene	NL	<5.0	<10.0	<50.0	<250	<10.0	NA*
Bromochloromethane	NL	<5.0	<10.0	<50.0	<250	<10.0	NA*
Bromodichloromethane	6	<5.0	<10.0	<50.0	<250	<10.0	NA*
Bromoform	40	<40.0	<80.0	<400	<2000	<80.0	NA*
Bromomethane	10	<20.0	<40.0	<200	<1000	<40.0	NA*
Carbon tetrachloride	3	<20.0	<40.0	<200	<1000	<10.0	NA*
Chlorobenzene	100	<5.0	<10.0	<50.0	<250	<10.0	NA*
Chloroethane	300	<5.0	<10.0	<50.0	<250	<10.0	NA*
Chloroform	30	<5.0	<10.0	<50.0	<250	<10.0	NA*
Chloromethane	NL	<20.0	<40.0	<200	<1000	<40.0	NA*
cis-1,2-Dichloroethene	50	<5.0	<10.0	<50.0	<250	24.0	133
cis-1,3-Dichloropropene	NL	<20.0	<40.0	<200	<1000	<40.0	NA*
Dibromochloromethane	10	<5.0	<10.0	<50.0	<250	<10.0	NA*
Dibromomethane	NL	<20.0	<40.0	<200	<250	<10.0	NA*
Dichlorodifluoromethane	1000	<5.0	<10.0	<50.0	<250	<10.0	NA*
Dichlorofluoromethane	NL	<5.0	<10.0	<50.0	<250	<10.0	NA*
Diethyl ether (Ethyl ether)	1000	<20.0	<40.0	<200	<1000	<40.0	NA*
Ethylbenzene	700	<5.0	<10.0	<50.0	<250	<10.0	NA*
Hexachloro-1,3-butadiene	1	<20.0	<40.0	<200	<1000	<40.0	NA*
Isopropylbenzene (Cumene)	300	<5.0	<10.0	<50.0	<250	<10.0	NA*
m&p-Xylene	NL	<10.0	<20.0	<100	<500	<20.0	NA*
Methylene Chloride	5	<20.0	<40.0	<200	<1000	<40.0	NA*
Methyl-tert-butyl ether	70	<5.0	<10.0	<50.0	<250	<10.0	NA*
Naphthalene	300	<20.0	<40.0	<200	<1000	<40.0	NA*
n-Butylbenzene	NL	<5.0	<10.0	<50.0	<250	<10.0	NA*
n-Propylbenzene	NL	<5.0	<10.0	<50.0	<250	<10.0	NA*
o-Xylene	NL	<5.0	<10.0	<50.0	<250	<10.0	NA*
p-Isopropyltoluene	NL	<5.0	<10.0	<50.0	<250	<10.0	NA*
sec-Butylbenzene	NL	<5.0	<10.0	<50.0	<250	<10.0	NA*
Styrene	NL	<5.0	<10.0	<50.0	<250	<10.0	NA*
tert-Butylbenzene	NL	<5.0	<10.0	<50.0	<250	<10.0	NA*
Tetrachloroethene	5	696	815	4,390	21,000	6,890	14,100
Tetrahydrofuran	100	<50.0	<100	<500	<2500	<100	NA*
Toluene	1000	<5.0	<10.0	<50.0	<250	<10.0	NA*
trans-1,2-Dichloroethene	100	<5.0	<10.0	<50.0	<250	<10.0	<1.0
trans-1,3-Dichloropropene	NL	<20.0	<40.0	<200	<1000	<40.0	NA*
Trichloroethene	5	<5.0	<10.0	<50.0	<250	<10.0	35.0
Trichlorofluoromethane	2000	<5.0	<10.0	<50.0	<250	<10.0	NA*
Vinyl chloride	0.2	<2.0	<4.0	<20.0	<100	<4.0	<0.40
Xylene (Total)	10000	<15.0	<30.0	<150	<750	<30.0	NA*

Notes:
NL: No Limit
NA*: Not Analyzed

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

TABLE 10

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

Sample ID Collected Date and Time	MDH Health Risk Limits 5/09	MW-17 8/18/2010	MW-17 5/12/2010	MW-17 2/22/2010	MW-17 11/16/2009 18:10	MW-17 10/01/2009 05:20	MW-17 12/03/2008 13:10
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

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-18 8/18/2010	MW-18 5/12/2010	MW-18 2/22/2010	MW-18 11/16/2009 15:45	MW-18 10/01/2009 05:46	MW-18 12/03/2008 14:26
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

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-19 8/18/2010	MW-19 5/12/2010	MW-19 2/23/2010	MW-19 11/16/2009 16:30	MW-19 09/24/2009 11:40	MW-19 12/03/2008 16:59
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

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	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20
Collected Date and Time	5/09	8/18/2010	5/12/2010	2/23/2010	11/16/2009 18:50	10/01/2009 06:00	12/10/2008 10:30
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

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

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

TABLE 11

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

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

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

TABLE 11

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

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

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

TABLE 11

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

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

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

TABLE 12

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

Monitoring Well	Date Measured	Temp (Deg. C)	Conductivity @ 25 deg. C (uS/cm)	pH	Redox Potential (Eh)	Dissolved Oxygen	Head Space (ppm)
MW-14	12/3/2008	15.1	735	7.41	228	2.6	1.752
MW-14	10/1/2009	18.8	1825	7.84	181	3.6	NR
MW-14	11/16/2009	19.22	1747	6.74	47.5	3.48	NR
MW-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-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-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-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-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-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-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

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-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-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-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-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-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-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-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

TABLE 12

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

Monitoring Well	Date Measured	Temp (Deg. C)	Conductivity @ 25 deg. C (uS/cm)	pH	Redox Potential (Eh)	Dissolved Oxygen	Head Space (ppm)
DPE-8	12/3/2008	13.6	753	7.52	165	1.4	1056
DPE-8	9/28/2009	17.31	2826	7.93	460	6.61	NR
DPE-8	11/17/2009	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

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

Attachments

Attachment A

Attachment A - Table 1

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

Date	Time	Extraction Well	DPE Pump Hours	Hours per Period	Days per Period	Flow Rate				DPE Air Flow (scf)	Pump Inlet Vacuum (in. Hg)	Post-MS-2 Vacuum (in. Hg)	Post-MS-1 Vacuum (in. Hg)	DPE Well/Pre-MS-1 Vacuum (in. Hg)		Pre-Manifold Vacuum (in. Hg)	DPE Well Casing Vacuum (in. H_2O)	DPE Pump Outlet Pressure		DPE Pump Outlet Temp. (Deg. F)		DPE Exhaust PID (ppm)	Extraction Well Bleed Valve % Open	DPE Pump Bleed Valve % Open	Comments
						Field (scfm)	Analog (scfm)	Analog (m^3/s)	Analog (acfm)					Analog	Field			Analog (psi)	Field (in H_2O)	Analog	Field				
6/29/2009	1640	DPE-1	88.0	88.0	NA	25	20.9	0.010	134.3	6,000	25.29	NA	NR	24.95	24.5	24.0	NR	0	0	229	200	NR	0	0	
9/4/2009	805	DPE-1	957.0	869.0	36.2	25	24.3	0.011	109.5	1,208,000	23.32	NA	9.4	9.66	9.8	9.1	86	0.02	0	307	310	34	100	0	DPE Pump Screen plugged
9/4/2009	946	DPE-1	957.0	0.0	0.0	40	36.1	0.017	120.5	1,209,000	21.01	NA	21.0	20.43	21.0	20.0	149	0	0	210	248	>4000	100	0	DPE & AS exhaust sampled
9/4/2009	1135	DPE-1	959.0	2.0	0.1	25	27.3	0.013	117.2	1,212,000	22.99	NA	22.5	22.70	22.5	22.5	>150	0	0	275	270	>4000	30	0	1 micron MS filter installed
10/15/2009	1120	DPE-1	1899.0	940.0	39.2	35	31.6	0.015	135.9	2,658,000	23.00	NA	22.5	22.22	22.5	22.5	>150	0	0	283	270	ND	20	0	Exhaust sampled
10/16/2009	621	DPE-1	1911.0	12.0	0.5	35	32.4	0.015	142.2	2,684,000	23.14	NA	22.5	22.35	22.5	22.0	>150	NR	0	291	299	ND	100	0	6-hr composite air sample collected
10/23/2009	922	DPE-3	1924.0	13.0	0.5	70	70.6	0.033	143.0	2,715,000	15.23	NA	14.1	14.58	14.0	13.8	90	0	NR	199	190	ND	100	0	
11/17/2009	1800	DPE-1	2361.0	437.0	18.2	30	28.6	0.013	144.2	3,992,000	24.02	NA	23.5	23.01	23.5	23.0	>150	0.00	0	301	300	>4000	100	0	6-hr composite air sample collected
12/17/2009	907	DPE-5	2960.0	599.0	25.0	NR	62.1	0.029	177.8	6,218,000	19.53	NA	19.0	18.70	18.9	18.9	155	0.00	0	247	248	850	NR	0	6-hr composite air sample collected
12/28/2009	1300	DPE-2	3228.0	268.0	11.2	60	60.7	0.029	187.9	7,333,000	20.31	NA	17.2	17.21	17.20	17.2	122	0.00	0	266	268	720	NR	0	
1/14/2010	923	DPE-5	3568.0	340.0	14.2	100	97.8	0.046	201.1	8,769,000	15.45	NA	14.9	14.46	NR	14.9	98	0.00	0	182	156	NR	NR	0	6-hr composite air sample collected
1/27/2010	NR	DPE-7	3789.0	221.0	9.2	75	88.6	0.042	215.3	9,633,000	17.68	NA	18.0	16.87	16.00	16.0	68	0.00	0	156	165	NR	NR	0	
2/22/2010	800	DPE-8	4161.0	372.0	15.5	105	101.5	0.048	224.8	11,221,000	16.49	NA	15.5	15.33	14.50	14.5	91	0.00	0	215	219	ND	NR	0	6-hr composite air sample collected
3/9/2010	NR	DPE-8	4472.0	311.0	13.0	105	103.6	0.049	226.1	12,597,000	16.29	NA	15.8	15.64	15.10	14.8	NR	0.00	NR	160	161	NR	NR	0	Pump inlet screen removed; DPE oil changed
3/25/2010[1]	742	DPE-2	4868.0	396.0	16.5	110	110.1	0.052	243.2	14,285,000	16.45	NA	16.1	15.66	15.10	14.9	165	0.02	0	251	248	105	100	0	6-hr composite air sample collected
4/16/2010	731	DPE-3	5308.0	440.0	18.3	72	72.7	0.034	218.0	16,587,000	20.00	18.5	18.5	19.21	18.00	18.0	130	0.03	0	255	251	17.5	100	0	6-hr composite air sample collected
5/12/2010	1330	DPE-5	5908.0	600.0	25.0	135	132.4	0.062	293.5	19,502,000	16.50	16.1	15.8	15.61	14.90	15.0	75	0.07	0	222	224	0.8	100	0	6-hr composite air sample collected
6/17/2010	1047	DPE-2	6768.0	860.0	35.8	35	36.9	0.017	146.6	22,356,000	22.43	22.5	22	21.38	21.00	21.0	210	0.08	0	287	276	8.5	100	0	6-hr composite air sample collected
7/26/2010	1100	DPE-8	7671.0	903.0	37.6	105	99.8	0.047	225.3	25,890,000	16.74	16.5	16.5	15.91	15.00	14.5	80	0.10	0	226	220	3.8	100	0	6-hr composite air sample collected

Notes:
1: There was a typo when entering the DPE pump hours; therefore, this value was revised while entering the data from 4/16/10.
NR: Not recorded.
NA: Not applicable.

Attachment A - Table 2

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

Date	Time	MS Vacuum Valve hours	MS pump Hours	MS Pump Flow Totalizer (gal)		MS Pump Flow Rate (gpm)		MS Pump Pressure (psi)	Elevator Sump Water Flow (gal)		Comments
				Analog	Field	Analog	Field		Analog	Field	
6/29/2009	1640	49	48	8,464	8,473	NR	10.2	NR	300	NR	
9/4/2009	805	49	96	38,299	38,213	NP	12.0	21.0	300	500	
10/15/2009	1120	49	131	62,643	64,283	NP	11.8	44.0	300	500	
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	

Notes:
NR: Not recorded.
NP: Not pumping

Attachment A - Table 3

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

Date	Time	AS Blower Hours	AS Discharge Pump Hours	AS Blower Pressure (in. H_2O)	AS Exhaust Pressure (in. H_2O)	AS Discharge Pump Pressure (psi)	AS Exhaust PID (ppm)	Comments
6/29/2009	1640	54	4	18	12	29	NR	
9/4/2009	805	382	34	18	11	0	2140	PID was 180 ppm late in 20 min blower cycle
9/4/2009	946	383	34	18	11	31	509	
10/15/2009	1120	649	55	18	11	NR	ND	
10/16/2009	621	651	56	18	11	NR	ND	
10/23/2009	922	654	56	NR	NR	NR	NR	
11/17/2009	1800	772	65	18	12	NR	NR	
12/17/2009	902	951	78	18	11	30	71	
12/28/2009	1300	1032	84	17	11	NR	268	
1/14/2010	1800	1133	92	17	10	24	ND	
1/27/2010	NR	1188	96	18	11	24	NR	
2/22/2010	8:00	1349	103	18	11	22	ND	
3/9/2010	NR	1436	109	18	11	26	NR	
3/25/2010	742	1544	117	18	11	28	ND	
4/16/2010	731	1688	128	18	11	26	251	
5/12/2010	1330	1856	141	18	11	26	ND	
6/17/2010	1057	2093	159	17	10	26	ND	
7/26/2010	1100	2368	180	18	10	NP	ND	

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

Attachment A - Table 4

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

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

Notes:
Bold indicates the current operating extraction well.

Attachment A - Table 5

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

Well ID	Date	PID (ppm)	DPE Exhaust Flow Rate (scfm)	DPE Pump Inlet Vacuum (in. Hg)
DPE-1	27-Oct-09	37.0	45.0	18.00
DPE-1	16-Nov-09	4,000.0	56.3	20.28
DPE-1	17-Dec-09	4,000.0	62.1	19.53
DPE-1	28-Dec-09	1,120.0	NR	NR
DPE-1	14-Jan-10	NR	NR	NR
DPE-1	22-Feb-10	914.0	35.0	22.5
DPE-1	25-Mar-10	868.0	40.0	23
DPE-1	16-Apr-10	287.0	40.0	22
DPE-1	12-May-10	9.9	45.0	23.5
DPE-1	17-Jun-10	32.1	30.0	22
DPE-1*	26-Jul-10	1.4	40.0	19
DPE-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-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-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

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-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-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-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

* - 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-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-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-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

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-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-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-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

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	8/1/2010[1]	Sep-10
DPE Pump Maintenance													
- Inspect Hoses, Piping and Fittings for Oil Leaks - MONTHLY	Sep 4	Oct 15, 16	Nov 16	Dec 17	Jan 14	Feb 22	Mar 9, 25	Apr 16	May 12	Jun 17	Jul 26	Aug 18	X
- Check Oil Level (level should show at middle of site glass) - MONTHLY	Sep 4	Oct 15, 16	Nov 16	Dec 17	Jan 14	Feb 22	Mar 9, 25	Apr 16	May 12	Jun 17	Jul 26	Aug 18	X
- Change Oil - EVERY 5,000 OPERATING HOURS							Mar 9						X
- Clean Pump Inlet Opening							Mar 9	Apr 16	May 12	Jun 17	Jul 26	Aug 18	X
- Inspect and Clean Pump Inlet Screen - EACH SITE VISIT	Sep 4	Oct 15, 16	Nov 6, 16, 27	Dec 4, 17, 28	Jan 14, 27	Feb 3, 10	NA	NA	NA	NA	NA	NA	X
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	X
- Check Sediment - MONTHLY		Oct 27	Nov 16	Dec 17	Jan 14	Feb 3, 10, 22	Mar 9, 25	Apr 16	May 12	Jun 17	Jul 26	NA	X
- Remove Sediment - AS NEEDED		Oct 27	Nov 16			Feb 3, 10, 22			May 12				
- Replace MS#1Filter (5 micron) - If Pressure Drop Occurs						Feb 26						NA	
- Replace MS#2 Filter (1 micron) - If Pressure Drop Occurs						Feb 26						NA	
- Transfer Pump (Moyno 34401 1 HP) - Inspect Hoses, Piping and Fittings	Sep 4	Oct 15, 16	Nov 16	Dec 17	Jan 14	Feb 22	Mar 9	Apr 16	May 12	Jun 17	Jul 26	NA	X
for Water Leaks - MONTHLY													
- Replace Transfer Pump Stator - SEMI-ANNUALLY						Feb 16						Aug 18	
Air Stripper Maintenance													
- Clean Air Stripper - ANNUALLY OR AS NEEDED							Mar 25	Apr 16	May 12	Jun 17	Jul 26		
- Clean Floats - QUARTERLY						Feb 12			May 12			NA	
- Discharge Pump (Meyers CT10 1 HP) - Inspect Hoses, Piping and	Sep 4	Oct 15, 16	Nov 16	Dec 17	Jan 14	Feb 22	Mar 25	Apr 16	May 12	Jun 17	Jul 26	NA	X
Fittings for Water Leaks - MONTHLY													
- Blower (16N4 TBNA 3 HP) - Inspect Hoses, Piping and Fittings for	Sep 4	Oct 15, 16	Nov 16	Dec 17	Jan 14	Feb 22	Mar 25	Apr 16	May 12	Jun 17	Jul 26	NA	X
Leaks - MONTHLY													
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	X
- Clean - AS NEEDED		Oct 27	Nov 6	Dec 4									
- Rebuild - AS NEEDED				Dec 7									

Notes:

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

FIELD DATA SHEET 1 of 2

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

DATE: 6/17/10
TIME:
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: #2
DPE WELL BLEED VALVE % OPEN:
DPE PUMP BLEED VALVE % OPEN:

ANALOG PANEL READINGS
DPE PUMP AIR FLOW (SCFM): 36.9
DPE WELL VACUUM (IN. HG): 21.38
DPE PUMP INLET VACUUM (IN. HG): 22.43
DPE PUMP OUTLET PRESSURE (PSI): 0.08
DPE PUMP OUTLET TEMP (DEG. F): 287
MS PUMP WATER FLOW (GPM): 13.9

TOTAL PANEL READINGS
DPE VACUUM PUMP (HRS): 6768
MS PUMP (HRS): 337
MS VACUUM VALVE (HRS): 50
AIR STRIPPER BLOWER (HRS): 2093
AIR STRIPPER PUMP (HRS): 159
DPE AIR FLOW (SCF): 22356000
MS PUMP WATER FLOW (GAL): 19195 8
SUMP PUMP WATER FLOW (GAL): 330

FIELD MEASUREMENTS
DPE WELL CASING VACUUM (MM~~HG~~): 210" H2O
~~DPE WELL HEAD (DROP TUBE) VACUUM (IN. HG):~~
PRE-MANIFOLD VACUUM (IN. HG): 21
DPE WELL (PRE-MS) VACUUM (IN.HG): 21
POST-MS VACUUM (IN. HG): 22
DPE PUMP AIR FLOW (SCFM): 35
DPE EXHAUST PID CONC. (PPM): 8.5
DPE PUMP OUTLET PRESSURE (IN. H2O)): 0
DPE PUMP OUTLET TEMP (DEG. F): 276

MS PUMP WATER FLOWRATE (WHILE PUMPING) (GPM): 12.9
MS PUMP WATER PRESSURE (WHILE PUMPING) (PSI): 4
MS PUMP FLOW TOTALIZER READING (GAL): 200398

AS EXHAUST PRESSURE (IN. H20): 10
AS DISCHARGE PUMP PRESSURE (WHILE PUMPING) (PSI): 26
AS BLOWER PRESSURE (IN. H20): ~~NO~~ 17
AS EXHAUST PID (PPM): ND

ELEVATOR DRAIN TILE SUMP FLOW TOTALIZER (GAL): 032

STATIC WATER LEVELS

	Clean to Dirty Ranking	Well Depth below TOC (FT)	Depth to Water below TOC (FT)
MW-14	3	17.5	13.01
MW-15	4	18	16.28
MW-16	10	18	13.96
MW-17	7	25	14.13 ~~13.95~~
MW-18	6	60	15.14
MW-19	1	20	15.01
MW-20	8	16.7	12.99
DPE-1	15	21.9	16.62
DPE-2	13	20.5	17.09
DPE-3	14	17.1	16.45
DPE-4	12	19.3	16.95
DPE-5	9	18.1	17.21
DPE-6	5	19.5	15.98
DPE-7	2	22.2	17.50
DPE-8	11	17.5	16.92
Sump	1	7.74	6.88

OPERATING WATER LEVELS

DPE-1	22.0
DPE-2	20.0
DPE-3	17.0
DPE-4	19.6
DPE-5	18.2
DPE-6	19.3
DPE-7	21.9
DPE-8	17.8

SUMP ROOM PID: ND

BASEMENT PID READINGS: ND

AMBIENT ROOM TEMPERATURE
CURRENT: MAX:

COMMENTS/MAINTENANCE:

F:\PROJECTS\Crc-City of Rochester\JEG\FIELD FORM.xls

AS IN 09.45
AS OFF 09:

FIELD DATA SHEET 2 of 2 6/17/10

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	32.1	30	22	50
DPE-2	8.5	35	20	210
DPE-3	18.1	55	18	125
DPE-4	NP	45	21	88
DPE-5	ND	75	16	79
DPE-6	ND	50	19	115
DPE-7	ND	70	18	71
DPE-8	ND	85	14	81

55.6 AVG FLOW RATES

CAN # 12480 - 6hr

Reg # PA350

10:47 - 30

12:41 - 19

14:57 - 6

16:57 - > - over

MAINTENANCE CHECKLIST (Revised 2/16/10)

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

Date: 6/17/10

Field Represenative: JEG

	Check Box	OBSERVATIONS AND/OR DESCRIPTION OF MAINTENANCE PERFORMED
DPE Pump Maintenance		
- Inspect Hoses, Piping and Fittings for Oil Leaks - MONTHLY	✓	
- Check Oil Level (level should show at middle of site glass) - MONTHLY	✓	
- Change Oil - EVERY 5,000 OPERATING HOURS		
- Inspect and Clean Pump Inlet Screen - EACH SITE VISIT	✓	
Moisture Separator Maintenance		
- Clean Floats - MONTHLY	✓	
- Check Sediment - MONTHLY	✓	
- Remove Sediment - MONTHLY	✓	
- Replace Filter - 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		Should last one
Air Stripper Maintenance		
- Clean Air Stripper - ANNUALLY OR AS NEEDED	✓	added HCL 1 gallon
- 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	✓	
Solonoid Valve Maintenance		
- Inspect - MONTHLY	✓	
- Clean - AS NEEDED		
- 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: 8/18/10
TIME:
RECORDED BY:

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

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

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

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

Blower Failure

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

FIELD MEASUREMENTS
Replaced Sensor
DPE WELL CASING VACUUM (MM HG):
PRE-MANIFOLD VACUUM (IN. HG):
DPE WELL (PRE-MS-1) VACUUM (IN.HG):
POST-MS-1 VACUUM (IN. HG):
POST-MS-2 VACUUM (IN. HG):
DPE PUMP AIR FLOW (SCFM):
DPE EXHAUST PID CONC. (PPM):
DPE PUMP OUTLET PRESSURE (IN. H2O)):
DPE PUMP OUTLET TEMP (DEG. F):

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

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

ELEVATOR DRAIN TILE SUMP FLOW TOTALIZER (GAL):

STATIC WATER LEVELS

	Clean to Dirty Ranking	Well Depth below TOC (FT)	Depth to Water below TOC (FT)
MW-14	3	17.5	13.28
MW-15	4	18	16.24
MW-16	10	18	13.91
MW-17	7	25	15.08
MW-18	6	60	16.53
MW-19	1	20	15.71
MW-20	8	16.7	12.71
DPE-1	15	21.9	16.80
DPE-2	13	20.5	17.58
DPE-3	14	17.1	17.20
DPE-4	12	19.3	16.74
DPE-5	9	18.1	16.55
DPE-6	5	19.5	16.56
DPE-7	2	22.2	17.98
DPE-8	11	17.5	17.21
Sump	1	7.74	6.72

OPERATING WATER LEVELS
DPE-1
DPE-2
DPE-3
DPE-4
DPE-5
DPE-6
DPE-7
DPE-8

SUMP ROOM PID:

BASEMENT PID READINGS:

COMMENTS/MAINTENANCE:

000005 X00

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: 7/26/10
TIME: 11:00
RECORDED BY:

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

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

CAN Sample 11:29 -29
14:19 -10
15:31 -4

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

ANALOG PANEL READINGS
% only

DPE PUMP AIR FLOW (SCFM):	99.8
DPE WELL VACUUM (IN. HG):	15.91
DPE PUMP INLET VACUUM (IN. HG):	16.74
DPE PUMP OUTLET PRESSURE (PSI):	0.1
DPE PUMP OUTLET TEMP (DEG. F):	225.7
MS PUMP WATER FLOW (GPM):	12.94

TOTAL PANEL READINGS
JOS typo - should be ~~767~~ based on site link data

DPE VACUUM PUMP (HRS):	371
MS PUMP (HRS):	371
MS VACUUM VALVE (HRS):	50
AIR STRIPPER BLOWER (HRS):	2368
AIR STRIPPER PUMP (HRS):	180
DPE AIR FLOW (SCF):	25890000
MS PUMP WATER FLOW (GAL):	217314
SUMP PUMP WATER FLOW (GAL):	330

FIELD MEASUREMENTS

DPE WELL CASING VACUUM (MM HG):	80"
PRE-MANIFOLD VACUUM (IN. HG):	14.5
DPE WELL (PRE-MS-1) VACUUM (IN.HG):	15
POST-MS-1 VACUUM (IN. HG):	16.5
POST-MS-2 VACUUM (IN. HG):	16.5
DPE PUMP AIR FLOW (SCFM):	105
DPE EXHAUST PID CONC. (PPM):	3.8
DPE PUMP OUTLET PRESSURE (IN. H2O)):	ND
DPE PUMP OUTLET TEMP (DEG. F):	220

MS PUMP WATER FLOWRATE (WHILE PUMPING) (GPM):	13.1
MS PUMP WATER PRESSURE (WHILE PUMPING) (PSI):	15
MS PUMP FLOW TOTALIZER READING (GAL):	226504
AS EXHAUST PRESSURE (IN. H20):	10
AS DISCHARGE PUMP PRESSURE (WHILE PUMPING) (PSI):	← Did not observe
AS BLOWER PRESSURE (IN. H20):	18
AS EXHAUST PID (PPM):	ND
ELEVATOR DRAIN TILE SUMP FLOW TOTALIZER (GAL):	ND

STATIC WATER LEVELS — stopped test early

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

OPERATING WATER LEVELS

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

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	ND	100	11/11	76/49
DPE-2	0.6	40	22	150
DPE-3	ND	65	17.5	126
DPE-4	19.0	60	20	148
DPE-5	5.7	100	15	100
DPE-6	4.4	60	18	115
DPE-7	0.1	75	17	70
DPE-8	3.0	105	14.5	80
	1.4	40	19	10

AVE FLOW – 75,625 scfm

MAINTENANCE CHECKLIST (Revised 4/13/10)

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

Completly pulled pipings out of 1 - cleaned and back flush pipins - K-packer is Broken - installed check valve.

Date: Feb 10

Field Represenative:

	Check Box	OBSERVATIONS AND/OR DESCRIPTION OF MAINTENANCE PERFORMED
DPE Pump Maintenance		
- Inspect Hoses, Piping and Fittings for Oil Leaks - MONTHLY	✓	
- Check Oil Level (level should show at middle of site glass) - MONTHLY	✓	
- Change Oil - EVERY 5,000 OPERATING HOURS	✓	
- Clean Pump Inlet Opening - MONTHLY	✓	same as always
Moisture Separator Maintenance		
- Clean Floats - MONTHLY	✓	
- Check Sediment - MONTHLY		sediment has leveled off - move sensor - annual
- Remove Sediment - MONTHLY		
- Replace MS#1 Filter (5 micron) - If Pressure Drop Occurs		Need a new 5 micron
- 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		NEED a new stator
Air Stripper Maintenance		
- Clean Air Stripper - ANNUALLY OR AS NEEDED	✓	added muratic acid
- 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	✓	
Solonoid Valve Maintenance		
- Inspect - MONTHLY	✓	opened # in good shape
- Clean - AS NEEDED		
- Rebuild - AS NEEDED		

Field Information Data Sheet

Landmark Environmental, LLC

Client Name: City of Rochester – Second Quarter Sampling

Project Name: CRC Project Number: CRC-10

Location: MW-14 Date: ~~May 12, 2010~~ 8/18/10

Station: Sample time: 14:40

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	17.5							
Static water level:	13.28		19.16	1088	8.24	285	5.51	
Water depth[1]:	4.22							
Well volume (gal):	.7							
Purge method:	Whale							
Sample Method:	Bailer							
Start time:	—							
Stop time:	—							
Duration (min.):	—	Odor:						
Rate, gpm:	—	Purge appearance:						
Volume purged:	.7	Sample appearance:						
Duplicate collected?		Comments: 1 volume dry						
Sampled by:								
Others present:		Well Condition						
Analysis:	VOC filtered metal ml filter in-line filter others:							
MW:gw monitoring well WS:water supply well SW:surface water SE:sediment other:								

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

Field Information Data Sheet

Landmark Environmental, LLC

Client Name: City of Rochester – Second Quarter Sampling 14:59

Project Name: CRC Project Number: CRC-10

Location: MW-15 Date: ~~May 12, 2010~~ 8/18/10

Station: Sample time:

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	18							
Static water level:	16.24		21.3	1593	10.6	166	6.04	
Water depth[1]:	1.76							
Well volume (gal):	.3							
Purge method:								
Sample Method:								
Start time:								
Stop time:								
Duration (min.):		Odor:	NO					
Rate, gpm:		Purge appearance:	cloudy					
Volume purged:		Sample appearance:	cloudy					
Duplicate collected?		Comments: 1 volume dry						
Sampled by:								
Others present:		Well Condition						
Analysis:	VOC filtered metal ml filter in-line filter others:							
MW:gw monitoring well WS:water supply well SW:surface water SE:sediment other:								

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

Field Information Data Sheet

Landmark Environmental, LLC

Client Name: City of Rochester – Second Quarter Sampling

Project Name: CRC Project Number: CRC-10

Location: MW-16 Date: ~~May 12, 2010~~ 8/18/10

Station: Sample time: 16:49

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	18							
Static water level:	13.91		19.21	2695	10.3	45	6.26	
Water depth[1]:	4.09							
Well volume (gal):	.7							
Purge method:	Whale							
Sample Method:	Bailer							
Start time:								
Stop time:								
Duration (min.):		Odor:						
Rate, gpm:		Purge appearance:		cloudy				
Volume purged:		Sample appearance:		cloudy				
Duplicate collected?		Comments:		1 volume dry				
Sampled by:								
Others present:				Well Condition				
Analysis:	VOC	filtered metal		ml filter	in-line filter	others:		
MW:gw monitoring well WS:water supply well SW:surface water SE:sediment other:								

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

Field Information Data Sheet

Landmark Environmental, LLC

Client Name: City of Rochester – Second Quarter Sampling

Project Name: CRC Project Number: CRC-10

Location: MW-17 Date: ~~May 12, 2010~~ 8/18/10

Station: 25 Sample time: 15:59

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	25							
Static water level:	15.08		18.29	1799	10.4	15	3.51	
Water depth[1]:	9.92							
Well volume (gal):	1.6							
Purge method:	bladder							
Sample Method:	Bailer							
Start time:								
Stop time:								
Duration (min.):		Odor:						
Rate, gpm:		Purge appearance:						
Volume purged:		Sample appearance:						
Duplicate collected?		Comments: 1 volume dry						
Sampled by:								
Others present:		Well Condition						
Analysis:	VOC filtered metal ml filter in-line filter others:							

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

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

Field Information Data Sheet

Landmark Environmental, LLC

Client Name: City of Rochester – Second Quarter Sampling 1535

Project Name: CRC Project Number: CRC-10

Location: MW-18 Date: ~~May 12, 2010~~ 8/18/10

Station: _____ Sample time: _____

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	60							
Static water level:	16.53		18.7	1695	11.03	121	0.63	
Water depth[1]:	43.47		17.3	1876	10.3	-69	0.69	
Well volume (gal):	7.1							
Purge method:	Whale							
Sample Method:	Bailer							
Start time:	—							
Stop time:	—							
Duration (min.):	—	Odor:	NO					
Rate, gpm:	—	Purge appearance:	cloudy					
Volume purged:	4	Sample appearance:	cloudy					
Duplicate collected?	—	Comments: 2 volumes dry						
Sampled by:	—							
Others present:		Well Condition						
Analysis:	VOC filtered metal ml filter in-line filter others:							
MW:gw monitoring well WS:water supply well SW:surface water SE:sediment other:								

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

Field Information Data Sheet

Landmark Environmental, LLC

Client Name: City of Rochester – Second Quarter Sampling

Project Name: CRC Project Number: CRC-10

Location: MW-19 Date: ~~May 12, 2010~~ 5/18/10

Station: Sample time: 14:00

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	20							
Static water level:	15.71		17.28	3147	6.44	157	6.61	
Water depth[1]:	4.29							
Well volume (gal):	.7							
Purge method:	Whale							
Sample Method:	Bailer							
Start time:	/							
Stop time:	/							
Duration (min.):	/	Odor:						
Rate, gpm:	/	Purge appearance:	cloudy					
Volume purged:	.76	Sample appearance:	cloudy					
Duplicate collected?	/	Comments: 1 volume 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:								

Field Information Data Sheet

Landmark Environmental, LLC

Client Name: City of Rochester – Second Quarter Sampling

Project Name: CRC Project Number: CRC-10

Location: MW-20 Date: ~~May 12, 2010~~ 8/18/10

Station: Sample time: 16:20

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	16.7							
Static water level:	12.71		18.3	4559	10.1	182	8.00	
Water depth[1]:	3.99							
Well volume (gal):	07							
Purge method:	Bladder							
Sample Method:	Bailer							
Start time:								
Stop time:								
Duration (min.):		Odor:						
Rate, gpm:		Purge appearance:	cloudy					
Volume purged:		Sample appearance:	cloudy					
Duplicate collected?		Comments:	1 volume d-1					
Sampled by:								
Others present:		Well Condition						
Analysis:	VOC filtered metal ml filter in-line filter others:							
MW:gw monitoring well WS:water supply well SW:surface water SE:sediment other:								

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

Field Information Data Sheet

Landmark Environmental, LLC

Client Name: City of Rochester – Second Quarter Sampling

Project Name: CRC Project Number: CRC-10

Location: Multiple Location Date: ~~May 12, 2010~~ 8/18/10

Station: Sample time:

Multiple Sampling Log:		Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Location:								
DPE-1:	18:00		19.3	2242	10.4	286	5.54	
DPE-2:	18:10		18.7	4401	10.4	259	5.07	
DPE-3:	18:20		18.4	4992	10.5	277	6.31	
DPE-4:	18:30		18.3	3296	10.6	252	6.90	
DPE-5:	18:40		18.3	2987	10.5	241	3.65	
DPE-6:	18:50		19.1	559	11.1	251	6.64	
DPE-7:	19:00		19.7	1012	11.1	276	4.43	
DPE-8:	19:10		17.6	3115	11.0	262	6.68	
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.

Attachment B

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

July 01, 2010

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

RE: Project: CRC City of Rochester
Pace Project No.: 10131691

Dear Mr. Skramstad:
Enclosed are the analytical results for sample(s) received by the laboratory on June 18, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Carolynne Trout

Carolynne Trout

carolynne.trout@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: CRC City of Rochester
Pace Project No.: 10131691

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

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

SAMPLE SUMMARY

Project: CRC City of Rochester
Pace Project No.: 10131691

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10131691001	DPE-EXHAUST-1248	Air	06/17/10 16:30	06/18/10 14:50

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

SAMPLE ANALYTE COUNT

Project: CRC City of Rochester
Pace Project No.: 10131691

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10131691001	DPE-EXHAUST-1248	TO-15	CJR	61

Pace Analytical®
www.pacelabs.com

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

ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10131691

Sample: DPE-EXHAUST-1248 **Lab ID: 10131691001** Collected: 06/17/10 16:30 Received: 06/18/10 14:50 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	ND	ug/m3	332	691.2		06/26/10 19:56	67-64-1	
Benzene	ND	ug/m3	449	691.2		06/26/10 19:56	71-43-2	
Benzyl chloride	ND	ug/m3	726	691.2		06/26/10 19:56	100-44-7	
Bromodichloromethane	ND	ug/m3	968	691.2		06/26/10 19:56	75-27-4	
Bromoform	ND	ug/m3	1450	691.2		06/26/10 19:56	75-25-2	
Bromomethane	ND	ug/m3	546	691.2		06/26/10 19:56	74-83-9	
1,3-Butadiene	ND	ug/m3	311	691.2		06/26/10 19:56	106-99-0	
2-Butanone (MEK)	ND	ug/m3	415	691.2		06/26/10 19:56	78-93-3	
Carbon disulfide	ND	ug/m3	435	691.2		06/26/10 19:56	75-15-0	
Carbon tetrachloride	ND	ug/m3	899	691.2		06/26/10 19:56	56-23-5	
Chlorobenzene	ND	ug/m3	650	691.2		06/26/10 19:56	108-90-7	
Chloroethane	ND	ug/m3	373	691.2		06/26/10 19:56	75-00-3	
Chloroform	ND	ug/m3	684	691.2		06/26/10 19:56	67-66-3	
Chloromethane	ND	ug/m3	290	691.2		06/26/10 19:56	74-87-3	
Cyclohexane	ND	ug/m3	470	691.2		06/26/10 19:56	110-82-7	
Dibromochloromethane	ND	ug/m3	1180	691.2		06/26/10 19:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1110	691.2		06/26/10 19:56	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	829	691.2		06/26/10 19:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	829	691.2		06/26/10 19:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	829	691.2		06/26/10 19:56	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	691	691.2		06/26/10 19:56	75-71-8	
1,1-Dichloroethane	ND	ug/m3	567	691.2		06/26/10 19:56	75-34-3	
1,2-Dichloroethane	ND	ug/m3	567	691.2		06/26/10 19:56	107-06-2	
1,1-Dichloroethene	ND	ug/m3	560	691.2		06/26/10 19:56	75-35-4	
cis-1,2-Dichloroethene	**1070**	ug/m3	560	691.2		06/26/10 19:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	560	691.2		06/26/10 19:56	156-60-5	
1,2-Dichloropropane	ND	ug/m3	650	691.2		06/26/10 19:56	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	636	691.2		06/26/10 19:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	636	691.2		06/26/10 19:56	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	968	691.2		06/26/10 19:56	76-14-2	
Ethanol	ND	ug/m3	1310	691.2		06/26/10 19:56	64-17-5	
Ethyl acetate	ND	ug/m3	505	691.2		06/26/10 19:56	141-78-6	
Ethylbenzene	ND	ug/m3	608	691.2		06/26/10 19:56	100-41-4	
4-Ethyltoluene	ND	ug/m3	1730	691.2		06/26/10 19:56	622-96-8	
n-Heptane	ND	ug/m3	574	691.2		06/26/10 19:56	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	1520	691.2		06/26/10 19:56	87-68-3	
n-Hexane	ND	ug/m3	498	691.2		06/26/10 19:56	110-54-3	
2-Hexanone	ND	ug/m3	574	691.2		06/26/10 19:56	591-78-6	
Methylene Chloride	ND	ug/m3	491	691.2		06/26/10 19:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	574	691.2		06/26/10 19:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	505	691.2		06/26/10 19:56	1634-04-4	
Naphthalene	ND	ug/m3	1870	691.2		06/26/10 19:56	91-20-3	
2-Propanol	ND	ug/m3	1730	691.2		06/26/10 19:56	67-63-0	
Propylene	ND	ug/m3	242	691.2		06/26/10 19:56	115-07-1	
Styrene	ND	ug/m3	601	691.2		06/26/10 19:56	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	968	691.2		06/26/10 19:56	79-34-5	
Tetrachloroethene	**689000**	ug/m3	12400	8857.6		06/30/10 00:52	127-18-4	

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

ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10131691

Sample: DPE-EXHAUST-1248 **Lab ID: 10131691001** Collected: 06/17/10 16:30 Received: 06/18/10 14:50 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Tetrahydrofuran	ND	ug/m3	415	691.2		06/26/10 19:56	109-99-9	
Toluene	ND	ug/m3	532	691.2		06/26/10 19:56	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	684	691.2		06/26/10 19:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	760	691.2		06/26/10 19:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	760	691.2		06/26/10 19:56	79-00-5	
Trichloroethene	ND	ug/m3	760	691.2		06/26/10 19:56	79-01-6	
Trichlorofluoromethane	ND	ug/m3	760	691.2		06/26/10 19:56	75-69-4	
1,1,2-Trichlorotrifluoroethane	**342000**	ug/m3	14200	8857.6		06/30/10 00:52	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1730	691.2		06/26/10 19:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1730	691.2		06/26/10 19:56	108-67-8	
Vinyl acetate	ND	ug/m3	491	691.2		06/26/10 19:56	108-05-4	
Vinyl chloride	ND	ug/m3	359	691.2		06/26/10 19:56	75-01-4	
m&p-Xylene	ND	ug/m3	1220	691.2		06/26/10 19:56	1330-20-7	
o-Xylene	ND	ug/m3	608	691.2		06/26/10 19:56	95-47-6	

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

QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10131691

QC Batch: AIR/10444
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10131691001

METHOD BLANK: 814834
Matrix: Air
Associated Lab Samples: 10131691001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	06/26/10 17:02	
1,1,2,2-Tetrachloroethane	ug/m3	ND	1.4	06/26/10 17:02	
1,1,2-Trichloroethane	ug/m3	ND	1.1	06/26/10 17:02	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	06/26/10 17:02	
1,1-Dichloroethane	ug/m3	ND	0.82	06/26/10 17:02	
1,1-Dichloroethene	ug/m3	ND	0.81	06/26/10 17:02	
1,2,4-Trichlorobenzene	ug/m3	ND	0.99	06/26/10 17:02	
1,2,4-Trimethylbenzene	ug/m3	ND	2.5	06/26/10 17:02	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	06/26/10 17:02	
1,2-Dichlorobenzene	ug/m3	ND	1.2	06/26/10 17:02	
1,2-Dichloroethane	ug/m3	ND	0.82	06/26/10 17:02	
1,2-Dichloropropane	ug/m3	ND	0.94	06/26/10 17:02	
1,3,5-Trimethylbenzene	ug/m3	ND	2.5	06/26/10 17:02	
1,3-Butadiene	ug/m3	ND	0.45	06/26/10 17:02	
1,3-Dichlorobenzene	ug/m3	ND	1.2	06/26/10 17:02	
1,4-Dichlorobenzene	ug/m3	ND	1.2	06/26/10 17:02	
2-Butanone (MEK)	ug/m3	ND	0.60	06/26/10 17:02	
2-Hexanone	ug/m3	ND	0.83	06/26/10 17:02	
2-Propanol	ug/m3	ND	2.5	06/26/10 17:02	
4-Ethyltoluene	ug/m3	ND	2.5	06/26/10 17:02	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	0.83	06/26/10 17:02	
Acetone	ug/m3	ND	0.48	06/26/10 17:02	
Benzene	ug/m3	ND	0.65	06/26/10 17:02	
Benzyl chloride	ug/m3	ND	1.0	06/26/10 17:02	
Bromodichloromethane	ug/m3	ND	1.4	06/26/10 17:02	
Bromoform	ug/m3	ND	2.1	06/26/10 17:02	
Bromomethane	ug/m3	ND	0.79	06/26/10 17:02	
Carbon disulfide	ug/m3	ND	0.63	06/26/10 17:02	
Carbon tetrachloride	ug/m3	ND	1.3	06/26/10 17:02	
Chlorobenzene	ug/m3	ND	0.94	06/26/10 17:02	
Chloroethane	ug/m3	ND	0.54	06/26/10 17:02	
Chloroform	ug/m3	ND	0.99	06/26/10 17:02	
Chloromethane	ug/m3	ND	0.42	06/26/10 17:02	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	06/26/10 17:02	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	06/26/10 17:02	
Cyclohexane	ug/m3	ND	0.68	06/26/10 17:02	
Dibromochloromethane	ug/m3	ND	1.7	06/26/10 17:02	
Dichlorodifluoromethane	ug/m3	ND	1.0	06/26/10 17:02	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	06/26/10 17:02	
Ethanol	ug/m3	ND	1.9	06/26/10 17:02	
Ethyl acetate	ug/m3	ND	0.73	06/26/10 17:02	
Ethylbenzene	ug/m3	ND	0.88	06/26/10 17:02	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	06/26/10 17:02	

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

QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10131691

METHOD BLANK: 814834 Matrix: Air

Associated Lab Samples: 10131691001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/m3	ND	1.8	06/26/10 17:02	
Methyl-tert-butyl ether	ug/m3	ND	0.73	06/26/10 17:02	
Methylene Chloride	ug/m3	ND	0.71	06/26/10 17:02	
n-Heptane	ug/m3	ND	0.83	06/26/10 17:02	
n-Hexane	ug/m3	ND	0.72	06/26/10 17:02	
Naphthalene	ug/m3	ND	2.7	06/26/10 17:02	
o-Xylene	ug/m3	ND	0.88	06/26/10 17:02	
Propylene	ug/m3	ND	0.35	06/26/10 17:02	
Styrene	ug/m3	ND	0.87	06/26/10 17:02	
Tetrachloroethene	ug/m3	ND	1.4	06/26/10 17:02	
Tetrahydrofuran	ug/m3	ND	0.60	06/26/10 17:02	
Toluene	ug/m3	ND	0.77	06/26/10 17:02	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	06/26/10 17:02	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	06/26/10 17:02	
Trichloroethene	ug/m3	ND	1.1	06/26/10 17:02	
Trichlorofluoromethane	ug/m3	ND	1.1	06/26/10 17:02	
Vinyl acetate	ug/m3	ND	0.71	06/26/10 17:02	
Vinyl chloride	ug/m3	ND	0.52	06/26/10 17:02	

LABORATORY CONTROL SAMPLE: 814835

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	54.2	98	75-135	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	68.4	98	69-131	
1,1,2-Trichloroethane	ug/m3	55.5	48.7	88	64-127	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	68.6	88	53-125	
1,1-Dichloroethane	ug/m3	41.2	35.1	85	60-125	
1,1-Dichloroethene	ug/m3	40.3	38.7	96	69-128	
1,2,4-Trichlorobenzene	ug/m3	75.5	72.6	96	30-150	
1,2,4-Trimethylbenzene	ug/m3	50	49.6	99	61-150	
1,2-Dibromoethane (EDB)	ug/m3	78.1	77.7	99	68-136	
1,2-Dichlorobenzene	ug/m3	61.2	62.3	102	59-150	
1,2-Dichloroethane	ug/m3	41.2	38.9	94	66-127	
1,2-Dichloropropane	ug/m3	47	42.0	89	75-134	
1,3,5-Trimethylbenzene	ug/m3	50	49.8	100	71-150	
1,3-Butadiene	ug/m3	22.5	21.5	95	67-126	
1,3-Dichlorobenzene	ug/m3	61.2	52.4	86	58-147	
1,4-Dichlorobenzene	ug/m3	61.2	55.9	91	62-143	
2-Butanone (MEK)	ug/m3	30	28.9	96	52-139	
2-Hexanone	ug/m3	41.7	37.2	89	61-138	
2-Propanol	ug/m3	23.8	23.1	97	30-146	
4-Ethyltoluene	ug/m3	50	50.4	101	55-134	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	40.9	98	60-135	
Acetone	ug/m3	24.2	23.2	96	61-135	
Benzene	ug/m3	32.5	28.7	88	71-125	

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

QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10131691

LABORATORY CONTROL SAMPLE: 814835

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzyl chloride	ug/m3	52.5	54.1	103	70-130	
Bromodichloromethane	ug/m3	68.2	65.9	97	66-136	
Bromoform	ug/m3	105	94.5	90	62-132	
Bromomethane	ug/m3	39.5	38.6	98	69-125	
Carbon disulfide	ug/m3	31.7	30.7	97	75-150	
Carbon tetrachloride	ug/m3	64	53.0	83	60-145	
Chlorobenzene	ug/m3	46.8	47.4	101	73-143	
Chloroethane	ug/m3	26.8	25.5	95	71-128	
Chloroform	ug/m3	49.7	47.7	96	73-137	
Chloromethane	ug/m3	21	17.9	85	64-125	
cis-1,2-Dichloroethene	ug/m3	40.3	40.3	100	67-131	
cis-1,3-Dichloropropene	ug/m3	46.2	45.2	98	75-150	
Cyclohexane	ug/m3	35	30.9	88	75-141	
Dibromochloromethane	ug/m3	86.6	87.6	101	64-127	
Dichlorodifluoromethane	ug/m3	50.3	48.9	97	69-124	
Dichlorotetrafluoroethane	ug/m3	71.1	72.1	101	59-125	
Ethanol	ug/m3	19.2	16.2	85	30-150	
Ethyl acetate	ug/m3	36.6	33.9	93	75-150	
Ethylbenzene	ug/m3	44.2	44.2	100	75-150	
Hexachloro-1,3-butadiene	ug/m3	108	116	107	30-150	
m&p-Xylene	ug/m3	88.3	78.2	89	68-138	
Methyl-tert-butyl ether	ug/m3	36.7	36.0	98	75-134	
Methylene Chloride	ug/m3	35.3	31.2	88	45-125	
n-Heptane	ug/m3	41.7	36.5	88	65-125	
n-Hexane	ug/m3	35.8	31.4	88	67-141	
Naphthalene	ug/m3	53.3	58.9	110	30-150	
o-Xylene	ug/m3	44.2	41.8	95	69-143	
Propylene	ug/m3	17.5	17.8	102	65-140	
Styrene	ug/m3	43.3	39.0	90	62-137	
Tetrachloroethene	ug/m3	69	73.6	107	68-136	
Tetrahydrofuran	ug/m3	30	28.3	94	51-125	
Toluene	ug/m3	38.3	36.4	95	70-128	
trans-1,2-Dichloroethene	ug/m3	40.3	40.2	100	69-131	
trans-1,3-Dichloropropene	ug/m3	46.2	43.0	93	65-135	
Trichloroethene	ug/m3	54.6	56.3	103	75-147	
Trichlorofluoromethane	ug/m3	57.1	54.3	95	63-127	
Vinyl acetate	ug/m3	35.8	31.0	86	68-136	
Vinyl chloride	ug/m3	26	25.2	97	66-125	

SAMPLE DUPLICATE: 815241

Parameter	Units	10131901001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND		30	
1,1,2-Trichloroethane	ug/m3	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/m3	3.1	ND		30	
1,1-Dichloroethane	ug/m3	ND	ND		30	

Pace Analytical®
www.pacelabs.com

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

QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10131691

SAMPLE DUPLICATE: 815241

Parameter	Units	10131901001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1-Dichloroethene	ug/m3	ND	ND		30	
1,2,4-Trichlorobenzene	ug/m3	ND	ND		30	
1,2,4-Trimethylbenzene	ug/m3	49.2	48.7	.9	30	
1,2-Dibromoethane (EDB)	ug/m3	ND	ND		30	
1,2-Dichlorobenzene	ug/m3	ND	ND		30	
1,2-Dichloroethane	ug/m3	ND	ND		30	
1,2-Dichloropropane	ug/m3	ND	ND		30	
1,3,5-Trimethylbenzene	ug/m3	11.6	13.0	12	30	
1,3-Butadiene	ug/m3	ND	ND		30	
1,3-Dichlorobenzene	ug/m3	ND	ND		30	
1,4-Dichlorobenzene	ug/m3	19.0	18.9	.4	30	
2-Butanone (MEK)	ug/m3	22.9	23.2	1	30	
2-Hexanone	ug/m3	ND	ND		30	
2-Propanol	ug/m3	278	282	1	30	
4-Ethyltoluene	ug/m3	17.1	14.7	15	30	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	ND		30	
Acetone	ug/m3	126	128	2	30	
Benzene	ug/m3	31.7	27.4	14	30	
Benzyl chloride	ug/m3	ND	ND		30	
Bromodichloromethane	ug/m3	ND	ND		30	
Bromoform	ug/m3	ND	ND		30	
Bromomethane	ug/m3	ND	ND		30	
Carbon disulfide	ug/m3	ND	ND		30	
Carbon tetrachloride	ug/m3	ND	ND		30	
Chlorobenzene	ug/m3	ND	ND		30	
Chloroethane	ug/m3	ND	ND		30	
Chloroform	ug/m3	ND	ND		30	
Chloromethane	ug/m3	ND	ND		30	
cis-1,2-Dichloroethene	ug/m3	ND	ND		30	
cis-1,3-Dichloropropene	ug/m3	ND	ND		30	
Cyclohexane	ug/m3	34.7	29.7	15	30	
Dibromochloromethane	ug/m3	ND	ND		30	
Dichlorodifluoromethane	ug/m3	ND	ND		30	
Dichlorotetrafluoroethane	ug/m3	ND	ND		30	
Ethanol	ug/m3	128	127	1	30	
Ethyl acetate	ug/m3	ND	ND		30	
Ethylbenzene	ug/m3	34.1	32.6	5	30	
Hexachloro-1,3-butadiene	ug/m3	ND	ND		30	
m&p-Xylene	ug/m3	107	102	5	30	
Methyl-tert-butyl ether	ug/m3	ND	ND		30	
Methylene Chloride	ug/m3	19.2	19.4	1	30	
n-Heptane	ug/m3	29.9	28.0	7	30	
n-Hexane	ug/m3	45.3	37.3	19	30	
Naphthalene	ug/m3	ND	ND		30	
o-Xylene	ug/m3	40.7	38.9	4	30	
Propylene	ug/m3	ND	ND		30	
Styrene	ug/m3	2.5	2.5	.4	30	
Tetrachloroethene	ug/m3	14.1	6.3	77	30	R1

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

QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10131691

SAMPLE DUPLICATE: 815241

Parameter	Units	10131901001 Result	Dup Result	RPD	Max RPD	Qualifiers
Tetrahydrofuran	ug/m3	16.4	13.4	20	30	
Toluene	ug/m3	155	155	.2	30	
trans-1,2-Dichloroethene	ug/m3	ND	ND		30	
trans-1,3-Dichloropropene	ug/m3	ND	ND		30	
Trichloroethene	ug/m3	ND	1.7J		30	
Trichlorofluoromethane	ug/m3	2.8	2.8	3	30	
Vinyl acetate	ug/m3	ND	ND		30	
Vinyl chloride	ug/m3	ND	ND		30	

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

QUALIFIERS

Project: CRC City of Rochester
Pace Project No.: 10131691

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

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

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

SAMPLE QUALIFIERS

Sample: 10131691001

[1] The Total Hydrocarbon (THC) pattern occured in the second half of the chromatogram (after toluene).

[2] This result is reported from a serial dilution

ANALYTE QUALIFIERS

R1 RPD value was outside control limits.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC City of Rochester
Pace Project No.: 10131691

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10131691001	DPE-EXHAUST-1248	TO-15	AIR/10444		

Data File: \\192.168.10.12\chem\10air7.i\062610.b\17712.D
Report Date: 28-Jun-2010 15:15

Pace Analytical Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10131691001
Operator : CJR
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 26-JUN-2010 19:56

Client SDG: 062610.b

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 9

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	2.667	126	J
2.		Unknown	3.769	1740	J
3.	79-38-9	Ethene, chlorotrifluoro-	3.904	68.9	NJ
4.	75-68-3	Ethane, 1-chloro-1,1-difluo	4.028	344	NJ
5.		Unknown	4.202	177	J
6.		Unknown	6.416	467	J
7.		Unknown	10.161	47.2	J
8.	541-05-9	Cyclotrisiloxane, hexamethy	18.618	202	NJ
9.		Unknown	19.021	46.4	J

Data File: \\192.168.10.12\chem\10air7.i\062610.b\17712.D
Report Date: 28-Jun-2010 15:15

Pace Analytical Services

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10air7.i\062610.b\17712.D
Lab Smp Id: 10131691001
Inj Date : 26-JUN-2010 19:56
Operator : CJR Inst ID: 10air7.i
Smp Info : Sample 2
Misc Info : 10444
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10air7.i\062610.b\TO15_174-10.m
Meth Date : 26-Jun-2010 15:42 dbrusky Quant Type: ISTD
Cal Date : 23-JUN-2010 17:13 Cal File: 17408.D
Als bottle: 12
Dil Factor: 691.20000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10AIRGROUP

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	691.200	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

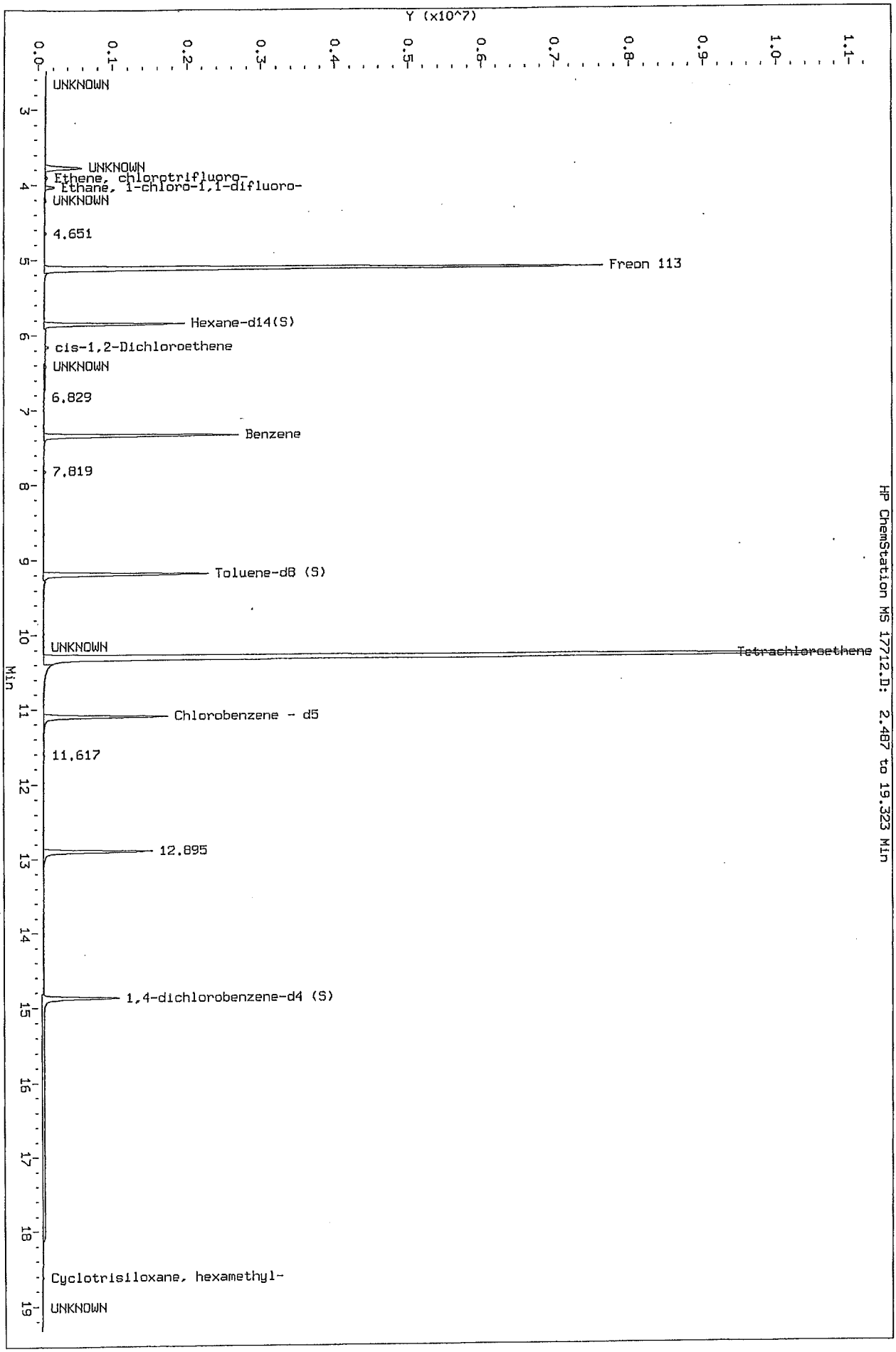
ISTD	RT	AREA	AMOUNT
* 36 1,4-Difluorobenzene	7.337	5177499	10.000
* 53 Chlorobenzene - d5	11.095	3909486	10.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
2.667	94468	0.18245877	126	0		0	36
Unknown				CAS #:			
3.769	1300326	2.51149442	1740	0		0	36
Ethene, chlorotrifluoro-				CAS #: 79-38-9			
3.904	51620	0.09970032	68.9	96	NBS75K.l	64249	36
Ethane, 1-chloro-1,1-difluoro-				CAS #: 75-68-3			
4.028	257956	0.49822538	344	83	NBS75K.l	1427	36
Unknown				CAS #:			
4.202	132575	0.25605896	177	0		0	36

Data File: \\192.168.10.12\chem\10air7.i\062610.b\17712.D
Report Date: 28-Jun-2010 15:15

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
6.416	349713	0.67544856	467	0		0	36
Unknown				CAS #:			
10.161	26685	0.06825817	47.2	0		0	53
Cyclotrisiloxane, hexamethyl-				CAS #:	541-05-9		
18.618	114535	0.29296791	202	74	NBS75K.l	70586	53
Unknown				CAS #:			
19.021	26247	0.06713791	46.4	0		0	53

Data File: \\192.168.10.12\chem\10air7.i\062610.b\17712.D
Injection Date: 26-JUN-2010 19:56
Instrument: 10air7.i
Client Sample ID:



Pace Analytical™
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

10131691

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

REGULATORY AGENCY

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

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

Section D Required Client Information

SAMPLE ID

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

Valid Matrix Codes

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

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: TO-15	Pace Project Number / Lab I.D.
1	DPE-EXHAUST-1248	A	C	6/17/10	10:47	6/17/10	16:30												X	10131691001
2																				
3																				
4																				
5																				
6																				
7																				
8																				
5																				
6																				
7																				
8																				

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
			[signature] PACE	6-18-10	14:30

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

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

AIR Sample Condition Upon Receipt

Pace Analytical™ Client Name: LANDMARK Project # 10131691

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

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

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

[redacted]

Tracking #:_____ **Comments:**

Date and Initials of person examining contents: 6-16-10 AK

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

Samples Received: 1 CAN, 1 FC

Canisters		Flow Controllers		Stand Alone G		Tedlar Bags	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
PPE EXHAUST	1248		PAH26				

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

Person Contacted:_____ Date/Time:_____

Comments/ Resolution:_____

Project Manager Review: _____ **Date:** 8/18/10

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

A106 Rev.01 (22May2009)

Pace Analytical®
www.pacelabs.com

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

June 24, 2010

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

RE: Project: City Of Rochester CRC
Pace Project No.: 10131683

Dear Mr. Skramstad:
Enclosed are the analytical results for sample(s) received by the laboratory on June 18, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Carol Davy for
Carolynne Trout
carolynne.trout@pacelabs.com
Project Manager

Enclosures

Pace Analytical®
www.pacelabs.com

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

CERTIFICATIONS

Project: City Of Rochester CRC
Pace Project No.: 10131683

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

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

SAMPLE SUMMARY

Project: City Of Rochester CRC
Pace Project No.: 10131683

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10131683001	AS-Influent	Water	06/17/10 09:45	06/18/10 14:50
10131683002	AS-Effluent	Water	06/17/10 09:48	06/18/10 14:50

Pace Analytical®
www.pacelabs.com

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

SAMPLE ANALYTE COUNT

Project: City Of Rochester CRC
Pace Project No.: 10131683

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10131683001	**AS-Influent**	EPA 624	CNC	82
10131683002	**AS-Effluent**	EPA 624	CNC	82

Pace Analytical®
www.pacelabs.com

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

ANALYTICAL RESULTS

Project: City Of Rochester CRC
Pace Project No.: 10131683

Sample: AS-Influent **Lab ID: 10131683001** Collected: 06/17/10 09:45 Received: 06/18/10 14:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV	Analytical Method: EPA 624							
Acetone	ND	ug/L	10.0	1		06/23/10 07:41	67-64-1	
Acrolein	ND	ug/L	40.0	1		06/23/10 07:41	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1		06/23/10 07:41	107-13-1	
Allyl chloride	ND	ug/L	4.0	1		06/23/10 07:41	107-05-1	
Benzene	ND	ug/L	1.0	1		06/23/10 07:41	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/23/10 07:41	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/23/10 07:41	74-97-5	
Bromodichloromethane	ND	ug/L	4.0	1		06/23/10 07:41	75-27-4	
Bromoform	ND	ug/L	8.0	1		06/23/10 07:41	75-25-2	
Bromomethane	ND	ug/L	4.0	1		06/23/10 07:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		06/23/10 07:41	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		06/23/10 07:41	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		06/23/10 07:41	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		06/23/10 07:41	98-06-6	
Carbon disulfide	ND	ug/L	1.0	1		06/23/10 07:41	75-15-0	
Carbon tetrachloride	ND	ug/L	4.0	1		06/23/10 07:41	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/23/10 07:41	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/23/10 07:41	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		06/23/10 07:41	110-75-8	
Chloroform	ND	ug/L	1.0	1		06/23/10 07:41	67-66-3	
Chloromethane	**7.2**	ug/L	4.0	1		06/23/10 07:41	74-87-3	
Chloroprene	ND	ug/L	1.0	1		06/23/10 07:41	126-99-8	
2-Chlorotoluene	ND	ug/L	1.0	1		06/23/10 07:41	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/23/10 07:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		06/23/10 07:41	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/23/10 07:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/23/10 07:41	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/23/10 07:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/23/10 07:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/23/10 07:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/23/10 07:41	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/23/10 07:41	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/23/10 07:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/23/10 07:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/23/10 07:41	75-35-4	
cis-1,2-Dichloroethene	**1.5**	ug/L	1.0	1		06/23/10 07:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/23/10 07:41	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		06/23/10 07:41	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/23/10 07:41	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/23/10 07:41	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		06/23/10 07:41	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/23/10 07:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		06/23/10 07:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		06/23/10 07:41	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		06/23/10 07:41	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		06/23/10 07:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		06/23/10 07:41	87-68-3	

Pace Analytical®
www.pacelabs.com

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

ANALYTICAL RESULTS

Project: City Of Rochester CRC
Pace Project No.: 10131683

Sample: AS-Influent **Lab ID: 10131683001** Collected: 06/17/10 09:45 Received: 06/18/10 14:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV	Analytical Method: EPA 624							
2-Hexanone	ND	ug/L	4.0	1		06/23/10 07:41	591-78-6	
Iodomethane	ND	ug/L	4.0	1		06/23/10 07:41	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		06/23/10 07:41	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/23/10 07:41	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		06/23/10 07:41	75-09-2	
2-Methylnaphthalene	ND	ug/L	5.0	1		06/23/10 07:41	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/23/10 07:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/23/10 07:41	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		06/23/10 07:41	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		06/23/10 07:41	103-65-1	
Styrene	ND	ug/L	1.0	1		06/23/10 07:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/23/10 07:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/23/10 07:41	79-34-5	
Tetrachloroethene	**108**	ug/L	1.0	1		06/23/10 07:41	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		06/23/10 07:41	109-99-9	
Toluene	ND	ug/L	1.0	1		06/23/10 07:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/23/10 07:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/23/10 07:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/23/10 07:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	4.0	1		06/23/10 07:41	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/23/10 07:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	4.0	1		06/23/10 07:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/23/10 07:41	96-18-4	
1,1,2-Trichlorotrifluoroethane	**2.6**	ug/L	1.0	1		06/23/10 07:41	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		06/23/10 07:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		06/23/10 07:41	108-67-8	
Vinyl acetate	ND	ug/L	20.0	1		06/23/10 07:41	108-05-4	
Vinyl chloride	ND	ug/L	0.40	1		06/23/10 07:41	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		06/23/10 07:41	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/23/10 07:41	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		06/23/10 07:41	95-47-6	
Dibromofluoromethane (S)	104	%	75-125	1		06/23/10 07:41	1868-53-7	
4-Bromofluorobenzene (S)	95	%	75-125	1		06/23/10 07:41	460-00-4	
Toluene-d8 (S)	96	%	75-125	1		06/23/10 07:41	2037-26-5	
1,2-Dichloroethane-d4 (S)	105	%	75-125	1		06/23/10 07:41	17060-07-0	

Pace Analytical®
www.pacelabs.com

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

ANALYTICAL RESULTS

Project: City Of Rochester CRC
Pace Project No.: 10131683

Sample: AS-Effluent **Lab ID: 10131683002** Collected: 06/17/10 09:48 Received: 06/18/10 14:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV	Analytical Method: EPA 624							
Acetone	**13.3**	ug/L	10.0	1		06/23/10 07:19	67-64-1	
Acrolein	ND	ug/L	40.0	1		06/23/10 07:19	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1		06/23/10 07:19	107-13-1	
Allyl chloride	ND	ug/L	4.0	1		06/23/10 07:19	107-05-1	
Benzene	ND	ug/L	1.0	1		06/23/10 07:19	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/23/10 07:19	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/23/10 07:19	74-97-5	
Bromodichloromethane	ND	ug/L	4.0	1		06/23/10 07:19	75-27-4	
Bromoform	ND	ug/L	8.0	1		06/23/10 07:19	75-25-2	
Bromomethane	ND	ug/L	4.0	1		06/23/10 07:19	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		06/23/10 07:19	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		06/23/10 07:19	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		06/23/10 07:19	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		06/23/10 07:19	98-06-6	
Carbon disulfide	ND	ug/L	1.0	1		06/23/10 07:19	75-15-0	
Carbon tetrachloride	ND	ug/L	4.0	1		06/23/10 07:19	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/23/10 07:19	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/23/10 07:19	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		06/23/10 07:19	110-75-8	
Chloroform	ND	ug/L	1.0	1		06/23/10 07:19	67-66-3	
Chloromethane	**8.7**	ug/L	4.0	1		06/23/10 07:19	74-87-3	
Chloroprene	ND	ug/L	1.0	1		06/23/10 07:19	126-99-8	
2-Chlorotoluene	ND	ug/L	1.0	1		06/23/10 07:19	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/23/10 07:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		06/23/10 07:19	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/23/10 07:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/23/10 07:19	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/23/10 07:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/23/10 07:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/23/10 07:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/23/10 07:19	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/23/10 07:19	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/23/10 07:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/23/10 07:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/23/10 07:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/23/10 07:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/23/10 07:19	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		06/23/10 07:19	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/23/10 07:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/23/10 07:19	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		06/23/10 07:19	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/23/10 07:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		06/23/10 07:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		06/23/10 07:19	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		06/23/10 07:19	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		06/23/10 07:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		06/23/10 07:19	87-68-3	

Pace Analytical®
www.pacelabs.com

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

ANALYTICAL RESULTS

Project: City Of Rochester CRC
Pace Project No.: 10131683

Sample: AS-Effluent **Lab ID: 10131683002** Collected: 06/17/10 09:48 Received: 06/18/10 14:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV	Analytical Method: EPA 624							
2-Hexanone	ND	ug/L	4.0	1		06/23/10 07:19	591-78-6	
Iodomethane	ND	ug/L	4.0	1		06/23/10 07:19	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		06/23/10 07:19	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/23/10 07:19	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		06/23/10 07:19	75-09-2	
2-Methylnaphthalene	ND	ug/L	5.0	1		06/23/10 07:19	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/23/10 07:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/23/10 07:19	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		06/23/10 07:19	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		06/23/10 07:19	103-65-1	
Styrene	ND	ug/L	1.0	1		06/23/10 07:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/23/10 07:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/23/10 07:19	79-34-5	
Tetrachloroethene	**2.4**	ug/L	1.0	1		06/23/10 07:19	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		06/23/10 07:19	109-99-9	
Toluene	ND	ug/L	1.0	1		06/23/10 07:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/23/10 07:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/23/10 07:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/23/10 07:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	4.0	1		06/23/10 07:19	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/23/10 07:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	4.0	1		06/23/10 07:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/23/10 07:19	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		06/23/10 07:19	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		06/23/10 07:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		06/23/10 07:19	108-67-8	
Vinyl acetate	ND	ug/L	20.0	1		06/23/10 07:19	108-05-4	
Vinyl chloride	ND	ug/L	0.40	1		06/23/10 07:19	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		06/23/10 07:19	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/23/10 07:19	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		06/23/10 07:19	95-47-6	
Dibromofluoromethane (S)	105	%	75-125	1		06/23/10 07:19	1868-53-7	
4-Bromofluorobenzene (S)	96	%	75-125	1		06/23/10 07:19	460-00-4	
Toluene-d8 (S)	96	%	75-125	1		06/23/10 07:19	2037-26-5	
1,2-Dichloroethane-d4 (S)	106	%	75-125	1		06/23/10 07:19	17060-07-0	

Pace Analytical®
www.pacelabs.com

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

QUALITY CONTROL DATA

Project: City Of Rochester CRC
Pace Project No.: 10131683

QC Batch: MSV/14820
QC Batch Method: EPA 624
Analysis Method: EPA 624
Analysis Description: 624 MSV
Associated Lab Samples: 10131683001, 10131683002

METHOD BLANK: 812108
Matrix: Water
Associated Lab Samples: 10131683001, 10131683002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	06/23/10 05:27	
1,1,1-Trichloroethane	ug/L	ND	1.0	06/23/10 05:27	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/23/10 05:27	
1,1,2-Trichloroethane	ug/L	ND	4.0	06/23/10 05:27	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	06/23/10 05:27	
1,1-Dichloroethane	ug/L	ND	1.0	06/23/10 05:27	
1,1-Dichloroethene	ug/L	ND	1.0	06/23/10 05:27	
1,1-Dichloropropene	ug/L	ND	1.0	06/23/10 05:27	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	06/23/10 05:27	
1,2,3-Trichloropropane	ug/L	ND	1.0	06/23/10 05:27	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	06/23/10 05:27	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	06/23/10 05:27	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	06/23/10 05:27	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	06/23/10 05:27	
1,2-Dichlorobenzene	ug/L	ND	1.0	06/23/10 05:27	
1,2-Dichloroethane	ug/L	ND	1.0	06/23/10 05:27	
1,2-Dichloropropane	ug/L	ND	1.0	06/23/10 05:27	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	06/23/10 05:27	
1,3-Dichlorobenzene	ug/L	ND	1.0	06/23/10 05:27	
1,3-Dichloropropane	ug/L	ND	1.0	06/23/10 05:27	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/23/10 05:27	
2,2-Dichloropropane	ug/L	ND	4.0	06/23/10 05:27	
2-Butanone (MEK)	ug/L	ND	4.0	06/23/10 05:27	
2-Chloroethylvinyl ether	ug/L	ND	10.0	06/23/10 05:27	
2-Chlorotoluene	ug/L	ND	1.0	06/23/10 05:27	
2-Hexanone	ug/L	ND	4.0	06/23/10 05:27	
2-Methylnaphthalene	ug/L	ND	5.0	06/23/10 05:27	
4-Chlorotoluene	ug/L	ND	1.0	06/23/10 05:27	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	06/23/10 05:27	
Acetone	ug/L	ND	10.0	06/23/10 05:27	
Acrolein	ug/L	ND	40.0	06/23/10 05:27	
Acrylonitrile	ug/L	ND	10.0	06/23/10 05:27	
Allyl chloride	ug/L	ND	4.0	06/23/10 05:27	
Benzene	ug/L	ND	1.0	06/23/10 05:27	
Bromobenzene	ug/L	ND	1.0	06/23/10 05:27	
Bromochloromethane	ug/L	ND	1.0	06/23/10 05:27	
Bromodichloromethane	ug/L	ND	4.0	06/23/10 05:27	
Bromoform	ug/L	ND	8.0	06/23/10 05:27	
Bromomethane	ug/L	ND	4.0	06/23/10 05:27	
Carbon disulfide	ug/L	ND	1.0	06/23/10 05:27	
Carbon tetrachloride	ug/L	ND	4.0	06/23/10 05:27	
Chlorobenzene	ug/L	ND	1.0	06/23/10 05:27	
Chloroethane	ug/L	ND	1.0	06/23/10 05:27	

Pace Analytical®
www.pacelabs.com

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

QUALITY CONTROL DATA

Project: City Of Rochester CRC
Pace Project No.: 10131683

METHOD BLANK: 812108 Matrix: Water

Associated Lab Samples: 10131683001, 10131683002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroform	ug/L	ND	1.0	06/23/10 05:27	
Chloromethane	ug/L	ND	4.0	06/23/10 05:27	
Chloroprene	ug/L	ND	1.0	06/23/10 05:27	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/23/10 05:27	
cis-1,3-Dichloropropene	ug/L	ND	4.0	06/23/10 05:27	
Dibromochloromethane	ug/L	ND	1.0	06/23/10 05:27	
Dibromomethane	ug/L	ND	1.0	06/23/10 05:27	
Dichlorodifluoromethane	ug/L	ND	1.0	06/23/10 05:27	
Dichlorofluoromethane	ug/L	ND	1.0	06/23/10 05:27	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	06/23/10 05:27	
Ethylbenzene	ug/L	ND	1.0	06/23/10 05:27	
Hexachloro-1,3-butadiene	ug/L	ND	4.0	06/23/10 05:27	
Iodomethane	ug/L	ND	4.0	06/23/10 05:27	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	06/23/10 05:27	
m&p-Xylene	ug/L	ND	2.0	06/23/10 05:27	
Methyl-tert-butyl ether	ug/L	ND	1.0	06/23/10 05:27	
Methylene Chloride	ug/L	ND	4.0	06/23/10 05:27	
n-Butylbenzene	ug/L	ND	1.0	06/23/10 05:27	
n-Propylbenzene	ug/L	ND	1.0	06/23/10 05:27	
Naphthalene	ug/L	ND	4.0	06/23/10 05:27	
o-Xylene	ug/L	ND	1.0	06/23/10 05:27	
p-Isopropyltoluene	ug/L	ND	1.0	06/23/10 05:27	
sec-Butylbenzene	ug/L	ND	1.0	06/23/10 05:27	
Styrene	ug/L	ND	1.0	06/23/10 05:27	
tert-Butylbenzene	ug/L	ND	1.0	06/23/10 05:27	
Tetrachloroethene	ug/L	ND	1.0	06/23/10 05:27	
Tetrahydrofuran	ug/L	ND	10.0	06/23/10 05:27	
Toluene	ug/L	ND	1.0	06/23/10 05:27	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/23/10 05:27	
trans-1,3-Dichloropropene	ug/L	ND	4.0	06/23/10 05:27	
Trichloroethene	ug/L	ND	1.0	06/23/10 05:27	
Trichlorofluoromethane	ug/L	ND	4.0	06/23/10 05:27	
Vinyl acetate	ug/L	ND	20.0	06/23/10 05:27	
Vinyl chloride	ug/L	ND	0.40	06/23/10 05:27	
Xylene (Total)	ug/L	ND	3.0	06/23/10 05:27	
1,2-Dichloroethane-d4 (S)	%	99	75-125	06/23/10 05:27	
4-Bromofluorobenzene (S)	%	95	75-125	06/23/10 05:27	
Dibromofluoromethane (S)	%	101	75-125	06/23/10 05:27	
Toluene-d8 (S)	%	99	75-125	06/23/10 05:27	

LABORATORY CONTROL SAMPLE: 812109

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.2	102	75-129	
1,1,1-Trichloroethane	ug/L	50	51.8	104	73-144	

Pace Analytical®
www.pacelabs.com

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

QUALITY CONTROL DATA

Project: City Of Rochester CRC
Pace Project No.: 10131683

LABORATORY CONTROL SAMPLE: 812109

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	50	49.2	98	75-125	
1,1,2-Trichloroethane	ug/L	50	49.4	99	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	50.7	101	75-143	
1,1-Dichloroethane	ug/L	50	49.0	98	75-135	
1,1-Dichloroethene	ug/L	50	50.2	100	75-133	
1,1-Dichloropropene	ug/L	50	49.6	99	75-131	
1,2,3-Trichlorobenzene	ug/L	50	50.9	102	73-141	
1,2,3-Trichloropropane	ug/L	50	50.2	100	75-126	
1,2,4-Trichlorobenzene	ug/L	50	50.8	102	70-148	
1,2,4-Trimethylbenzene	ug/L	50	50.7	101	75-141	
1,2-Dibromo-3-chloropropane	ug/L	50	51.0	102	64-135	
1,2-Dibromoethane (EDB)	ug/L	50	50.9	102	75-125	
1,2-Dichlorobenzene	ug/L	50	49.9	100	75-125	
1,2-Dichloroethane	ug/L	50	49.5	99	75-136	
1,2-Dichloropropane	ug/L	50	50.9	102	75-130	
1,3,5-Trimethylbenzene	ug/L	50	50.6	101	75-141	
1,3-Dichlorobenzene	ug/L	50	49.9	100	75-125	
1,3-Dichloropropane	ug/L	50	50.2	100	75-125	
1,4-Dichlorobenzene	ug/L	50	49.3	99	75-125	
2,2-Dichloropropane	ug/L	50	41.4	83	50-150	
2-Butanone (MEK)	ug/L	50	49.8	100	58-138	
2-Chloroethylvinyl ether	ug/L	125	131	105	50-150	
2-Chlorotoluene	ug/L	50	49.3	99	75-132	
2-Hexanone	ug/L	50	47.3	95	65-135	
2-Methylnaphthalene	ug/L	50	49.7	99	62-150	
4-Chlorotoluene	ug/L	50	49.3	99	75-135	
4-Methyl-2-pentanone (MIBK)	ug/L	50	49.4	99	69-137	
Acetone	ug/L	125	121	97	52-141	
Acrolein	ug/L	500	480	96	50-150	
Acrylonitrile	ug/L	500	500	100	75-130	
Allyl chloride	ug/L	50	51.0	102	68-150	
Benzene	ug/L	50	48.5	97	75-125	
Bromobenzene	ug/L	50	50.6	101	75-125	
Bromochloromethane	ug/L	50	52.2	104	75-129	
Bromodichloromethane	ug/L	50	51.0	102	75-142	
Bromoform	ug/L	100	105	105	66-135	
Bromomethane	ug/L	50	55.6	111	57-150	
Carbon disulfide	ug/L	50	47.2	94	65-132	
Carbon tetrachloride	ug/L	50	51.3	103	75-148	
Chlorobenzene	ug/L	50	49.3	99	75-125	
Chloroethane	ug/L	50	49.0	98	66-142	
Chloroform	ug/L	50	48.9	98	75-131	
Chloromethane	ug/L	50	47.1	94	52-147	
Chloroprene	ug/L	50	50.6	101	71-147	
cis-1,2-Dichloroethene	ug/L	50	50.0	100	75-126	
cis-1,3-Dichloropropene	ug/L	50	53.4	107	69-150	
Dibromochloromethane	ug/L	50	51.4	103	73-138	
Dibromomethane	ug/L	50	52.4	105	75-127	

Pace Analytical®
www.pacelabs.com

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

QUALITY CONTROL DATA

Project: City Of Rochester CRC
Pace Project No.: 10131683

LABORATORY CONTROL SAMPLE: 812109

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dichlorodifluoromethane	ug/L	50	50.8	102	50-150	
Dichlorofluoromethane	ug/L	50	48.1	96	75-129	
Diethyl ether (Ethyl ether)	ug/L	50	51.7	103	75-126	
Ethylbenzene	ug/L	50	49.8	100	75-132	
Hexachloro-1,3-butadiene	ug/L	50	50.0	100	75-129	
Iodomethane	ug/L	50	50.8	102	73-150	
Isopropylbenzene (Cumene)	ug/L	50	50.7	101	75-142	
m&p-Xylene	ug/L	100	101	101	75-131	
Methyl-tert-butyl ether	ug/L	50	48.9	98	75-130	
Methylene Chloride	ug/L	50	44.8	90	71-125	
n-Butylbenzene	ug/L	50	49.5	99	70-148	
n-Propylbenzene	ug/L	50	49.9	100	75-136	
Naphthalene	ug/L	50	53.4	107	69-145	
o-Xylene	ug/L	50	50.5	101	75-129	
p-Isopropyltoluene	ug/L	50	50.5	101	75-132	
sec-Butylbenzene	ug/L	50	50.2	100	75-136	
Styrene	ug/L	50	51.8	104	75-125	
tert-Butylbenzene	ug/L	50	50.8	102	75-135	
Tetrachloroethene	ug/L	50	49.6	99	75-125	
Tetrahydrofuran	ug/L	500	486	97	63-144	
Toluene	ug/L	50	49.2	98	75-125	
trans-1,2-Dichloroethene	ug/L	50	48.7	97	72-135	
trans-1,3-Dichloropropene	ug/L	50	47.8	96	62-150	
Trichloroethene	ug/L	50	50.0	100	75-125	
Trichlorofluoromethane	ug/L	50	48.9	98	67-150	
Vinyl acetate	ug/L	50	47.9	96	55-150	
Vinyl chloride	ug/L	50	49.1	98	63-147	
Xylene (Total)	ug/L	150	151	101	75-130	
1,2-Dichloroethane-d4 (S)	%			98	75-125	
4-Bromofluorobenzene (S)	%			100	75-125	
Dibromofluoromethane (S)	%			100	75-125	
Toluene-d8 (S)	%			100	75-125	

MATRIX SPIKE SAMPLE: 813099

Parameter	Units	10131745001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20.1	101	70-136	
1,1,1-Trichloroethane	ug/L	ND	20	21.7	109	68-150	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	19.2	96	75-125	
1,1,2-Trichloroethane	ug/L	ND	20	19.0	95	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	24.0	120	75-150	
1,1-Dichloroethane	ug/L	ND	20	20.2	101	67-143	
1,1-Dichloroethene	ug/L	ND	20	22.1	110	75-147	
1,1-Dichloropropene	ug/L	ND	20	21.4	107	75-141	
1,2,3-Trichlorobenzene	ug/L	ND	20	21.0	105	71-141	
1,2,3-Trichloropropane	ug/L	ND	20	19.2	96	75-128	
1,2,4-Trichlorobenzene	ug/L	ND	20	20.4	102	61-148	

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

QUALITY CONTROL DATA

Project: City Of Rochester CRC
Pace Project No.: 10131683

MATRIX SPIKE SAMPLE: 813099

Parameter	Units	10131745001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	ND	20	18.1	91	65-145	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	19.5	98	64-135	
1,2-Dibromoethane (EDB)	ug/L	ND	20	19.3	96	75-126	
1,2-Dichlorobenzene	ug/L	ND	20	19.8	99	75-127	
1,2-Dichloroethane	ug/L	ND	20	19.2	96	70-138	
1,2-Dichloropropane	ug/L	ND	20	20.3	102	75-130	
1,3,5-Trimethylbenzene	ug/L	ND	20	17.1	85	61-150	
1,3-Dichlorobenzene	ug/L	ND	20	20.2	101	75-126	
1,3-Dichloropropane	ug/L	ND	20	19.4	97	75-125	
1,4-Dichlorobenzene	ug/L	ND	20	19.9	100	75-125	
2,2-Dichloropropane	ug/L	ND	20	18.1	91	50-150	
2-Butanone (MEK)	ug/L	ND	20	18.7	94	50-141	
2-Chloroethylvinyl ether	ug/L	ND	50	ND	0	50-150	P5
2-Chlorotoluene	ug/L	ND	20	20.3	102	75-137	
2-Hexanone	ug/L	ND	20	16.8	84	66-135	
2-Methylnaphthalene	ug/L	ND	20	27.2	136	62-150	
4-Chlorotoluene	ug/L	ND	20	20.0	100	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	18.1	90	62-142	
Acetone	ug/L	ND	50	45.3	91	50-150	
Acrolein	ug/L	ND	200	202	101	50-150	
Acrylonitrile	ug/L	ND	200	185	93	70-135	
Allyl chloride	ug/L	ND	20	21.2	106	50-150	
Benzene	ug/L	ND	20	20.1	101	75-125	
Bromobenzene	ug/L	ND	20	19.9	100	75-125	
Bromochloromethane	ug/L	ND	20	20.7	103	73-137	
Bromodichloromethane	ug/L	ND	20	19.8	99	70-142	
Bromoform	ug/L	ND	40	38.3	96	55-135	
Bromomethane	ug/L	ND	20	24.9	125	50-150	
Carbon disulfide	ug/L	ND	20	20.8	104	50-150	
Carbon tetrachloride	ug/L	ND	20	22.4	112	64-150	
Chlorobenzene	ug/L	ND	20	20.1	100	75-125	
Chloroethane	ug/L	ND	20	21.5	107	59-150	
Chloroform	ug/L	ND	20	19.6	98	75-132	
Chloromethane	ug/L	ND	20	20.1	101	52-150	
Chloroprene	ug/L	ND	20	18.4	92	54-150	
cis-1,2-Dichloroethene	ug/L	11.7	20	31.1	97	64-144	
cis-1,3-Dichloropropene	ug/L	ND	20	19.8	99	56-150	
Dibromochloromethane	ug/L	ND	20	19.6	98	60-138	
Dibromomethane	ug/L	ND	20	20.0	100	75-127	
Dichlorodifluoromethane	ug/L	ND	20	24.2	121	50-150	
Dichlorofluoromethane	ug/L	ND	20	20.3	101	74-142	
Diethyl ether (Ethyl ether)	ug/L	ND	20	19.9	99	75-127	
Ethylbenzene	ug/L	ND	20	20.3	101	75-134	
Hexachloro-1,3-butadiene	ug/L	ND	20	22.0	110	63-150	
Iodomethane	ug/L	ND	20	20.6	103	50-150	
Isopropylbenzene (Cumene)	ug/L	ND	20	20.9	104	69-147	
m&p-Xylene	ug/L	ND	40	38.7	97	75-133	
Methyl-tert-butyl ether	ug/L	ND	20	18.9	94	73-131	

Pace Analytical®
www.pacelabs.com

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

QUALITY CONTROL DATA

Project: City Of Rochester CRC
Pace Project No.: 10131683

MATRIX SPIKE SAMPLE: 813099

Parameter	Units	10131745001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	ND	20	17.7	88	68-126	
n-Butylbenzene	ug/L	ND	20	20.8	104	59-150	
n-Propylbenzene	ug/L	ND	20	20.8	104	72-143	
Naphthalene	ug/L	ND	20	20.7	103	57-148	
o-Xylene	ug/L	ND	20	19.2	96	75-131	
p-Isopropyltoluene	ug/L	ND	20	20.7	104	75-137	
sec-Butylbenzene	ug/L	ND	20	21.3	106	75-144	
Styrene	ug/L	ND	20	15.2	76	75-134	
tert-Butylbenzene	ug/L	ND	20	21.4	107	68-150	
Tetrachloroethene	ug/L	ND	20	21.3	107	75-130	
Tetrahydrofuran	ug/L	ND	200	180	90	60-148	
Toluene	ug/L	ND	20	19.9	99	75-125	
trans-1,2-Dichloroethene	ug/L	ND	20	21.3	103	75-145	
trans-1,3-Dichloropropene	ug/L	ND	20	18.8	94	50-150	
Trichloroethene	ug/L	20.5	20	40.9	102	73-132	
Trichlorofluoromethane	ug/L	ND	20	22.9	114	67-150	
Vinyl acetate	ug/L	ND	20	15.4J	77	50-150	
Vinyl chloride	ug/L	2.2	20	23.7	108	63-150	
Xylene (Total)	ug/L	ND	60	57.9	96	72-138	
1,2-Dichloroethane-d4 (S)	%				95	75-125	
4-Bromofluorobenzene (S)	%				99	75-125	
Dibromofluoromethane (S)	%				100	75-125	
Toluene-d8 (S)	%				99	75-125	

SAMPLE DUPLICATE: 813100

Parameter	Units	10131745003 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	

Pace Analytical®
www.pacelabs.com

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

QUALITY CONTROL DATA

Project: City Of Rochester CRC
Pace Project No.: 10131683

SAMPLE DUPLICATE: 813100

Parameter	Units	10131745003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dichlorobenzene	ug/L	ND	ND		30	
2,2-Dichloropropane	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	ND	ND		30	
2-Chloroethylvinyl ether	ug/L	ND	ND		30	
2-Chlorotoluene	ug/L	ND	ND		30	
2-Hexanone	ug/L	ND	ND		30	
2-Methylnaphthalene	ug/L	ND	ND		30	
4-Chlorotoluene	ug/L	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	
Acetone	ug/L	ND	ND		30	
Acrolein	ug/L	ND	ND		30	
Acrylonitrile	ug/L	ND	ND		30	
Allyl chloride	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Bromobenzene	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	
Carbon disulfide	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroethane	ug/L	ND	ND		30	
Chloroform	ug/L	ND	ND		30	
Chloromethane	ug/L	ND	ND		30	
Chloroprene	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	13.2	13.1	.5	30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Dichlorofluoromethane	ug/L	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
Iodomethane	ug/L	ND	ND		30	
Isopropylbenzene (Cumene)	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
n-Butylbenzene	ug/L	ND	ND		30	
n-Propylbenzene	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
sec-Butylbenzene	ug/L	ND	ND		30	
Styrene	ug/L	ND	ND		30	
tert-Butylbenzene	ug/L	ND	ND		30	

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

QUALITY CONTROL DATA

Project: City Of Rochester CRC
Pace Project No.: 10131683

SAMPLE DUPLICATE: 813100

Parameter	Units	10131745003 Result	Dup Result	RPD	Max RPD	Qualifiers
Tetrachloroethene	ug/L	ND	ND		30	
Tetrahydrofuran	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	.66J		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	14.2	13.7	3	30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl acetate	ug/L	ND	ND		30	
Vinyl chloride	ug/L	0.42	.39J		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	103	99	4		
4-Bromofluorobenzene (S)	%	97	98	1		
Dibromofluoromethane (S)	%	105	101	4		
Toluene-d8 (S)	%	96	96	.02		

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

QUALIFIERS

Project: City Of Rochester CRC
Pace Project No.: 10131683

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

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

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

ANALYTE QUALIFIERS

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

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: City Of Rochester CRC
Pace Project No.: 10131683

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10131683001	**AS-Influent**	EPA 624	MSV/14820		
10131683002	**AS-Effluent**	EPA 624	MSV/14820		

Pace Analytical™
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

N 27

10131683 Gul 6.18
~~10131680~~

Page: 1 of 1

Section A Required Client Information:

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

Section B Required Project Information:

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

Section C Invoice Information:

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

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER____

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

Filtered (Y/N)

Requested Analysis: EPA 624

Section D Required Client Information — SAMPLE ID. One Character per box. (A-Z, 0-9 / ,-) Samples IDs MUST BE UNIQUE

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

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	EPA 624	Pace Project Number Lab I.D.
1	AS-Influent	W	G	6/17/10	9:45				3									X	
2	AS-Effluent	W	G	6/17/10	9:48				3									X	
3																			
4																			
5																			
6																			
7																			
8																			
5																			
6																			
7																			
8																			

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
			Shawna [signature] / Pace	6/18/10	1450	30	Y/N (Y circled)	Y/N (Y circled)	Y/N (Y circled)
							Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

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

F:\PROJECTS\Crc-City of Rochester\Analytical Reports\coc 6-17-10 system.XLS

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

Sample Condition Upon Receipt

Pace Analytical

Client Name: Landmark **Project #** 10131683

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

Optional
Proj. Due Date:
Proj. Name:

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

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

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

Cooler Temperature 3.0°c **Biological Tissue is Frozen:** Yes No

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

Date and Initials of person examining contents: DN 6-18-10

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: CMW **Date:** 6/18/10

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

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

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

August 05, 2010

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

RE: Project: CRC City of Rochester
Pace Project No.: 10134490

Dear Mr. Skramstad:
Enclosed are the analytical results for sample(s) received by the laboratory on July 27, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Carolynne Trout

carolynne.trout@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: CRC City of Rochester
Pace Project No.: 10134490

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nebraska Certification #: Pace
Nevada Certification #: MN_00064
New Jersey Certification #: MN-002
New Mexico Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: D9921
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Washington Certification #: C754
Wisconsin Certification #: 999407970

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

SAMPLE SUMMARY

Project: CRC City of Rochester
Pace Project No.: 10134490

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10134490001	DPE-EXHAUST-0103	Air	07/26/10 15:31	07/27/10 12:43

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

SAMPLE ANALYTE COUNT

Project: CRC City of Rochester
Pace Project No.: 10134490

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10134490001	DPE-EXHAUST-0103	TO-15	DB1	61

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

ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10134490

Sample: DPE-EXHAUST-0103 **Lab ID: 10134490001** Collected: 07/26/10 15:31 Received: 07/27/10 12:43 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	**74.8**	ug/m3	34.6	72		08/02/10 20:31	67-64-1	
Benzene	ND	ug/m3	46.8	72		08/02/10 20:31	71-43-2	
Benzyl chloride	ND	ug/m3	1210	1152		08/04/10 08:56	100-44-7	
Bromodichloromethane	ND	ug/m3	101	72		08/02/10 20:31	75-27-4	
Bromoform	ND	ug/m3	151	72		08/02/10 20:31	75-25-2	
Bromomethane	ND	ug/m3	56.9	72		08/02/10 20:31	74-83-9	
1,3-Butadiene	ND	ug/m3	32.4	72		08/02/10 20:31	106-99-0	
2-Butanone (MEK)	ND	ug/m3	43.2	72		08/02/10 20:31	78-93-3	
Carbon disulfide	ND	ug/m3	45.4	72		08/02/10 20:31	75-15-0	
Carbon tetrachloride	ND	ug/m3	93.6	72		08/02/10 20:31	56-23-5	
Chlorobenzene	ND	ug/m3	67.7	72		08/02/10 20:31	108-90-7	
Chloroethane	ND	ug/m3	38.9	72		08/02/10 20:31	75-00-3	
Chloroform	ND	ug/m3	71.3	72		08/02/10 20:31	67-66-3	
Chloromethane	ND	ug/m3	30.2	72		08/02/10 20:31	74-87-3	
Cyclohexane	ND	ug/m3	49.0	72		08/02/10 20:31	110-82-7	
Dibromochloromethane	ND	ug/m3	122	72		08/02/10 20:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	115	72		08/02/10 20:31	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	86.4	72		08/02/10 20:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	86.4	72		08/02/10 20:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	86.4	72		08/02/10 20:31	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	72.0	72		08/02/10 20:31	75-71-8	
1,1-Dichloroethane	ND	ug/m3	59.0	72		08/02/10 20:31	75-34-3	
1,2-Dichloroethane	ND	ug/m3	59.0	72		08/02/10 20:31	107-06-2	
1,1-Dichloroethene	ND	ug/m3	58.3	72		08/02/10 20:31	75-35-4	
cis-1,2-Dichloroethene	**272**	ug/m3	58.3	72		08/02/10 20:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	58.3	72		08/02/10 20:31	156-60-5	
1,2-Dichloropropane	ND	ug/m3	67.7	72		08/02/10 20:31	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	66.2	72		08/02/10 20:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	66.2	72		08/02/10 20:31	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	101	72		08/02/10 20:31	76-14-2	
Ethanol	ND	ug/m3	2190	1152		08/04/10 08:56	64-17-5	
Ethyl acetate	ND	ug/m3	52.6	72		08/02/10 20:31	141-78-6	
Ethylbenzene	ND	ug/m3	63.4	72		08/02/10 20:31	100-41-4	
4-Ethyltoluene	ND	ug/m3	180	72		08/02/10 20:31	622-96-8	
n-Heptane	ND	ug/m3	59.8	72		08/02/10 20:31	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	158	72		08/02/10 20:31	87-68-3	
n-Hexane	ND	ug/m3	51.8	72		08/02/10 20:31	110-54-3	
2-Hexanone	ND	ug/m3	59.8	72		08/02/10 20:31	591-78-6	
Methylene Chloride	ND	ug/m3	51.1	72		08/02/10 20:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	59.8	72		08/02/10 20:31	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	52.6	72		08/02/10 20:31	1634-04-4	
Naphthalene	ND	ug/m3	194	72		08/02/10 20:31	91-20-3	
2-Propanol	ND	ug/m3	180	72		08/02/10 20:31	67-63-0	
Propylene	ND	ug/m3	25.2	72		08/02/10 20:31	115-07-1	
Styrene	ND	ug/m3	62.6	72		08/02/10 20:31	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	101	72		08/02/10 20:31	79-34-5	
Tetrachloroethene	**489000**	ug/m3	1610	1152		08/04/10 08:56	127-18-4	E

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

ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10134490

Sample: DPE-EXHAUST-0103 **Lab ID: 10134490001** Collected: 07/26/10 15:31 Received: 07/27/10 12:43 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Tetrahydrofuran	**45.3**	ug/m3	43.2	72		08/02/10 20:31	109-99-9	SS
Toluene	ND	ug/m3	55.4	72		08/02/10 20:31	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	71.3	72		08/02/10 20:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	79.2	72		08/02/10 20:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	79.2	72		08/02/10 20:31	79-00-5	
Trichloroethene	**101**	ug/m3	79.2	72		08/02/10 20:31	79-01-6	
Trichlorofluoromethane	ND	ug/m3	79.2	72		08/02/10 20:31	75-69-4	
1,1,2-Trichlorotrifluoroethane	**3720**	ug/m3	1840	1152		08/04/10 08:56	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	180	72		08/02/10 20:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	180	72		08/02/10 20:31	108-67-8	
Vinyl acetate	ND	ug/m3	51.1	72		08/02/10 20:31	108-05-4	
Vinyl chloride	ND	ug/m3	37.4	72		08/02/10 20:31	75-01-4	
m&p-Xylene	ND	ug/m3	127	72		08/02/10 20:31	1330-20-7	
o-Xylene	ND	ug/m3	63.4	72		08/02/10 20:31	95-47-6	

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

QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10134490

QC Batch: AIR/10631
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10134490001

METHOD BLANK: 831934
Matrix: Air
Associated Lab Samples: 10134490001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	08/02/10 19:04	
1,1,2,2-Tetrachloroethane	ug/m3	ND	1.4	08/02/10 19:04	
1,1,2-Trichloroethane	ug/m3	ND	1.1	08/02/10 19:04	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	08/02/10 19:04	
1,1-Dichloroethane	ug/m3	ND	0.82	08/02/10 19:04	
1,1-Dichloroethene	ug/m3	ND	0.81	08/02/10 19:04	
1,2,4-Trichlorobenzene	ug/m3	ND	0.99	08/02/10 19:04	
1,2,4-Trimethylbenzene	ug/m3	ND	2.5	08/02/10 19:04	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	08/02/10 19:04	
1,2-Dichlorobenzene	ug/m3	ND	1.2	08/02/10 19:04	
1,2-Dichloroethane	ug/m3	ND	0.82	08/02/10 19:04	
1,2-Dichloropropane	ug/m3	ND	0.94	08/02/10 19:04	
1,3,5-Trimethylbenzene	ug/m3	ND	2.5	08/02/10 19:04	
1,3-Butadiene	ug/m3	ND	0.45	08/02/10 19:04	
1,3-Dichlorobenzene	ug/m3	ND	1.2	08/02/10 19:04	
1,4-Dichlorobenzene	ug/m3	ND	1.2	08/02/10 19:04	
2-Butanone (MEK)	ug/m3	ND	0.60	08/02/10 19:04	
2-Hexanone	ug/m3	ND	0.83	08/02/10 19:04	
2-Propanol	ug/m3	ND	2.5	08/02/10 19:04	
4-Ethyltoluene	ug/m3	ND	2.5	08/02/10 19:04	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	0.83	08/02/10 19:04	
Acetone	ug/m3	ND	0.48	08/02/10 19:04	
Benzene	ug/m3	ND	0.65	08/02/10 19:04	
Benzyl chloride	ug/m3	ND	1.0	08/03/10 19:10	
Bromodichloromethane	ug/m3	ND	1.4	08/02/10 19:04	
Bromoform	ug/m3	ND	2.1	08/02/10 19:04	
Bromomethane	ug/m3	ND	0.79	08/02/10 19:04	
Carbon disulfide	ug/m3	ND	0.63	08/02/10 19:04	
Carbon tetrachloride	ug/m3	ND	1.3	08/02/10 19:04	
Chlorobenzene	ug/m3	ND	0.94	08/02/10 19:04	
Chloroethane	ug/m3	ND	0.54	08/02/10 19:04	
Chloroform	ug/m3	ND	0.99	08/02/10 19:04	
Chloromethane	ug/m3	ND	0.42	08/02/10 19:04	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	08/02/10 19:04	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	08/02/10 19:04	
Cyclohexane	ug/m3	ND	0.68	08/02/10 19:04	
Dibromochloromethane	ug/m3	ND	1.7	08/02/10 19:04	
Dichlorodifluoromethane	ug/m3	ND	1.0	08/02/10 19:04	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	08/02/10 19:04	
Ethanol	ug/m3	2.2	1.9	08/03/10 19:10	B-
Ethyl acetate	ug/m3	ND	0.73	08/02/10 19:04	
Ethylbenzene	ug/m3	ND	0.88	08/02/10 19:04	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	08/02/10 19:04	

Pace Analytical®
www.pacelabs.com

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

QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10134490

METHOD BLANK: 831934 Matrix: Air

Associated Lab Samples: 10134490001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/m3	ND	1.8	08/02/10 19:04	
Methyl-tert-butyl ether	ug/m3	ND	0.73	08/02/10 19:04	
Methylene Chloride	ug/m3	ND	0.71	08/02/10 19:04	
n-Heptane	ug/m3	ND	0.83	08/02/10 19:04	
n-Hexane	ug/m3	ND	0.72	08/02/10 19:04	
Naphthalene	ug/m3	ND	2.7	08/02/10 19:04	
o-Xylene	ug/m3	ND	0.88	08/02/10 19:04	
Propylene	ug/m3	ND	0.35	08/02/10 19:04	
Styrene	ug/m3	ND	0.87	08/02/10 19:04	
Tetrachloroethene	ug/m3	ND	1.4	08/02/10 19:04	
Tetrahydrofuran	ug/m3	ND	0.60	08/02/10 19:04	
Toluene	ug/m3	ND	0.77	08/02/10 19:04	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	08/02/10 19:04	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	08/02/10 19:04	
Trichloroethene	ug/m3	ND	1.1	08/02/10 19:04	
Trichlorofluoromethane	ug/m3	ND	1.1	08/02/10 19:04	
Vinyl acetate	ug/m3	ND	0.71	08/02/10 19:04	
Vinyl chloride	ug/m3	ND	0.52	08/02/10 19:04	

LABORATORY CONTROL SAMPLE: 831935

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	45.5	82	75-135	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	58.9	84	69-131	
1,1,2-Trichloroethane	ug/m3	55.5	46.3	83	64-127	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	65.5	84	53-125	
1,1-Dichloroethane	ug/m3	41.2	37.1	90	60-125	
1,1-Dichloroethene	ug/m3	40.3	34.5	86	69-128	
1,2,4-Trichlorobenzene	ug/m3	75.5	67.3	89	30-150	SS
1,2,4-Trimethylbenzene	ug/m3	50	48.3	97	61-150	
1,2-Dibromoethane (EDB)	ug/m3	78.1	66.1	85	68-136	
1,2-Dichlorobenzene	ug/m3	61.2	50.5	83	59-150	
1,2-Dichloroethane	ug/m3	41.2	34.1	83	66-127	
1,2-Dichloropropane	ug/m3	47	41.3	88	75-134	
1,3,5-Trimethylbenzene	ug/m3	50	39.1	78	71-150	
1,3-Butadiene	ug/m3	22.5	19.2	85	67-126	
1,3-Dichlorobenzene	ug/m3	61.2	60.4	99	58-147	
1,4-Dichlorobenzene	ug/m3	61.2	49.4	81	62-143	
2-Butanone (MEK)	ug/m3	30	29.2	97	52-139	
2-Hexanone	ug/m3	41.7	40.3	97	61-138	
2-Propanol	ug/m3	23.8	27.9	117	30-146	
4-Ethyltoluene	ug/m3	50	40.0	80	55-134	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	32.7	78	60-135	
Acetone	ug/m3	24.2	22.6	94	61-135	
Benzene	ug/m3	32.5	26.2	81	71-125	

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

QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10134490

LABORATORY CONTROL SAMPLE: 831935

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzyl chloride	ug/m3	52.5	66.6	127	70-130	
Bromodichloromethane	ug/m3	68.2	57.7	85	66-136	
Bromoform	ug/m3	105	89.8	85	62-132	
Bromomethane	ug/m3	39.5	36.5	92	69-125	
Carbon disulfide	ug/m3	31.7	28.3	89	75-150	
Carbon tetrachloride	ug/m3	64	51.1	80	60-145	
Chlorobenzene	ug/m3	46.8	38.5	82	73-143	
Chloroethane	ug/m3	26.8	24.8	92	71-128	
Chloroform	ug/m3	49.7	42.1	85	73-137	
Chloromethane	ug/m3	21	19.2	92	64-125	
cis-1,2-Dichloroethene	ug/m3	40.3	35.2	87	67-131	
cis-1,3-Dichloropropene	ug/m3	46.2	40.6	88	75-150	
Cyclohexane	ug/m3	35	30.5	87	75-141	
Dibromochloromethane	ug/m3	86.6	73.8	85	64-127	
Dichlorodifluoromethane	ug/m3	50.3	40.2	80	69-124	
Dichlorotetrafluoroethane	ug/m3	71.1	57.6	81	59-125	
Ethanol	ug/m3	19.2	24.1	126	30-150	
Ethyl acetate	ug/m3	36.6	33.7	92	75-150	
Ethylbenzene	ug/m3	44.2	35.2	80	75-150	
Hexachloro-1,3-butadiene	ug/m3	108	112	103	30-150	SS
m&p-Xylene	ug/m3	88.3	85.0	96	68-138	
Methyl-tert-butyl ether	ug/m3	36.7	33.9	92	75-134	
Methylene Chloride	ug/m3	35.3	32.7	93	45-125	
n-Heptane	ug/m3	41.7	32.7	79	65-125	
n-Hexane	ug/m3	35.8	29.6	83	67-141	
Naphthalene	ug/m3	53.3	49.0	92	30-150	SS
o-Xylene	ug/m3	44.2	35.9	81	69-143	
Propylene	ug/m3	17.5	14.6	83	65-140	
Styrene	ug/m3	43.3	36.4	84	62-137	
Tetrachloroethene	ug/m3	69	66.5	96	68-136	
Tetrahydrofuran	ug/m3	30	19.6	65	51-125	SS
Toluene	ug/m3	38.3	35.8	93	70-128	
trans-1,2-Dichloroethene	ug/m3	40.3	36.8	91	69-131	
trans-1,3-Dichloropropene	ug/m3	46.2	42.5	92	65-135	
Trichloroethene	ug/m3	54.6	44.1	81	75-147	
Trichlorofluoromethane	ug/m3	57.1	46.5	81	63-127	
Vinyl acetate	ug/m3	35.8	32.9	92	68-136	
Vinyl chloride	ug/m3	26	23.5	91	66-125	

SAMPLE DUPLICATE: 832848

Parameter	Units	10134525001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND		30	
1,1,2-Trichloroethane	ug/m3	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND		30	
1,1-Dichloroethane	ug/m3	ND	ND		30	

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

QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10134490

SAMPLE DUPLICATE: 832848

Parameter	Units	10134525001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1-Dichloroethene	ug/m3	ND	ND		30	
1,2,4-Trichlorobenzene	ug/m3	ND	ND		30	
1,2,4-Trimethylbenzene	ug/m3	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/m3	ND	ND		30	
1,2-Dichlorobenzene	ug/m3	ND	ND		30	
1,2-Dichloroethane	ug/m3	ND	ND		30	
1,2-Dichloropropane	ug/m3	ND	ND		30	
1,3,5-Trimethylbenzene	ug/m3	ND	ND		30	
1,3-Butadiene	ug/m3	ND	ND		30	
1,3-Dichlorobenzene	ug/m3	ND	ND		30	
1,4-Dichlorobenzene	ug/m3	ND	ND		30	
2-Butanone (MEK)	ug/m3	23.7	23.1	2	30	
2-Hexanone	ug/m3	1.2	1.2		30	
2-Propanol	ug/m3	ND	ND		30	
4-Ethyltoluene	ug/m3	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/m3	2.1	2.2	1	30	
Acetone	ug/m3	70.5	69.4	2	30	
Benzene	ug/m3	5.1	5.0	1	30	
Bromodichloromethane	ug/m3	ND	ND		30	
Bromoform	ug/m3	ND	ND		30	
Bromomethane	ug/m3	ND	ND		30	
Carbon disulfide	ug/m3	6.5	6.5	.8	30	
Carbon tetrachloride	ug/m3	ND	ND		30	
Chlorobenzene	ug/m3	ND	ND		30	
Chloroethane	ug/m3	ND	ND		30	
Chloroform	ug/m3	ND	ND		30	
Chloromethane	ug/m3	ND	ND		30	
cis-1,2-Dichloroethene	ug/m3	ND	ND		30	
cis-1,3-Dichloropropene	ug/m3	ND	ND		30	
Cyclohexane	ug/m3	1.5	1.5	.6	30	
Dibromochloromethane	ug/m3	ND	ND		30	
Dichlorodifluoromethane	ug/m3	58.2	57.1	2	30	
Dichlorotetrafluoroethane	ug/m3	ND	ND		30	
Ethyl acetate	ug/m3	ND	ND		30	
Ethylbenzene	ug/m3	ND	1J		30	
Hexachloro-1,3-butadiene	ug/m3	ND	ND		30	
m&p-Xylene	ug/m3	ND	1.7J		30	
Methyl-tert-butyl ether	ug/m3	ND	ND		30	
Methylene Chloride	ug/m3	ND	ND		30	
n-Heptane	ug/m3	2.2	2.1	4	30	
n-Hexane	ug/m3	3.3	3.1	6	30	
Naphthalene	ug/m3	ND	3.1J		30	SS
o-Xylene	ug/m3	ND	1.1J		30	
Propylene	ug/m3	62.6	61.0	3	30	
Styrene	ug/m3	ND	.88J		30	
Tetrachloroethene	ug/m3	ND	ND		30	
Tetrahydrofuran	ug/m3	ND	ND		30	
Toluene	ug/m3	3.7	3.8	2	30	

Pace Analytical®
www.pacelabs.com

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

QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10134490

SAMPLE DUPLICATE: 832848

Parameter	Units	10134525001 Result	Dup Result	RPD	Max RPD	Qualifiers
trans-1,2-Dichloroethene	ug/m3	ND	ND		30	
trans-1,3-Dichloropropene	ug/m3	ND	ND		30	
Trichloroethene	ug/m3	ND	ND		30	
Trichlorofluoromethane	ug/m3	ND	1.2J		30	
Vinyl acetate	ug/m3	ND	ND		30	
Vinyl chloride	ug/m3	ND	ND		30	

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

QUALIFIERS

Project: CRC City of Rochester
Pace Project No.: 10134490

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

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

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

SAMPLE QUALIFIERS

Sample: 10134490001

[1]	The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).
[2]	This result is reported from a serial dilution

ANALYTE QUALIFIERS

B-	Analyte detected in method blank but was not detected in the associated samples.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
SS	This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC City of Rochester
Pace Project No.: 10134490

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10134490001	DPE-EXHAUST-0103	TO-15	AIR/10631		

Pace Analytical™
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

10134490

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

REGULATORY AGENCY

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

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

Section D Required Client Information

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

Valid Matrix Codes

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

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: TO-15	Pace Project Number / Lab I.D.
1	DPE-EXHAUST-0103	A	C	7/26/10	11:29	7/26/10	15:31												X	10134490001
2																				
3																				
4																				
5																				
6																				
7																				
8																				
5																				
6																				
7																				
8																				

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
			Pace MN	7/27/10	1243

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

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

AIR Sample Condition Upon Receipt

Pace Analytical

Client Name: LANDMARK Project # 10134490

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

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

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

Tracking #:_____

Optional
Proj. Due Date:
Proj. Name:

Comments:

Date and Initials of person examining contents: 7-28-10 K

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

Samples Received: 1CAN, 1FC

Canisters		Flow Controllers		Stand Alone G		Tedlar Bags	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
DPE-EXHAUST	0103		PA247				

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

Person Contacted:_____ Date/Time:_____

Comments/ Resolution:_____

Project Manager Review: CTM **Date:** 7/28/10

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

A106 Rev.01 (22May2009)

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

August 05, 2010

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

RE: Project: City of Rochester CRC
Pace Project No.: 10134429

Dear Mr. Skramstad:
Enclosed are the analytical results for sample(s) received by the laboratory on July 27, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Carolynne Trout

Carolynne Trout

carolynne.trout@pacelabs.com
Project Manager

Enclosures

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

CERTIFICATIONS

Project: City of Rochester CRC
Pace Project No.: 10134429

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New Mexico Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: D9921
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Washington Certification #: C754
Wisconsin Certification #: 999407970

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

SAMPLE SUMMARY

Project: City of Rochester CRC
Pace Project No.: 10134429

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10134429001	AS-Influent	Water	07/26/10 12:00	07/27/10 12:43
10134429002	AS-Effluent	Water	07/26/10 12:05	07/27/10 12:43

Pace Analytical®
www.pacelabs.com

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

SAMPLE ANALYTE COUNT

Project: City of Rochester CRC
Pace Project No.: 10134429

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10134429001	**AS-Influent**	EPA 624	DRE	82
10134429002	**AS-Effluent**	EPA 624	DRE	82

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

PROJECT NARRATIVE

Project: City of Rochester CRC
Pace Project No.: 10134429

Method: EPA 624
Description: 624 MSV
Client: Landmark Environmental
Date: August 05, 2010

General Information:
2 samples were analyzed for EPA 624. All samples were received in acceptable condition with any exceptions noted below.

L2: Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
- AS-Effluent (Lab ID: 10134429002)
- AS-Influent (Lab ID: 10134429001)

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

QC Batch: MSV/15043

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
- LCS (Lab ID: 829846)
  - Acetone
  - Acrolein
- MS (Lab ID: 830216)
  - Acetone
  - Acrolein

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/15043

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
- LCS (Lab ID: 829846)
  - Iodomethane

L3: Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
- LCS (Lab ID: 829846)
  - Acetone

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

PROJECT NARRATIVE

Project: City of Rochester CRC
Pace Project No.: 10134429

Method: EPA 624
Description: 624 MSV
Client: Landmark Environmental
Date: August 05, 2010

QC Batch: MSV/15043

L3: Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

- Acrolein

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/15043

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10134441032

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

- MS (Lab ID: 830216)
  - Acrolein

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

- MS (Lab ID: 830216)
  - 2-Chloroethylvinyl ether

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Sample Comments:

Results were confirmed by re-analysis.

- AS-Influent (Lab ID: 10134429001)
- AS-Effluent (Lab ID: 10134429002)

This data package has been reviewed for quality and completeness and is approved for release.

Pace Analytical®
www.pacelabs.com

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

ANALYTICAL RESULTS

Project: City of Rochester CRC
Pace Project No.: 10134429

Sample: AS-Influent **Lab ID: 10134429001** Collected: 07/26/10 12:00 Received: 07/27/10 12:43 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV	Analytical Method: EPA 624							
Acetone	ND	ug/L	10.0	1		07/28/10 22:06	67-64-1	L1
Acrolein	ND	ug/L	40.0	1		07/28/10 22:06	107-02-8	L1
Acrylonitrile	ND	ug/L	10.0	1		07/28/10 22:06	107-13-1	
Allyl chloride	ND	ug/L	4.0	1		07/28/10 22:06	107-05-1	
Benzene	ND	ug/L	1.0	1		07/28/10 22:06	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/28/10 22:06	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/28/10 22:06	74-97-5	
Bromodichloromethane	ND	ug/L	4.0	1		07/28/10 22:06	75-27-4	
Bromoform	ND	ug/L	8.0	1		07/28/10 22:06	75-25-2	
Bromomethane	ND	ug/L	4.0	1		07/28/10 22:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		07/28/10 22:06	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		07/28/10 22:06	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		07/28/10 22:06	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		07/28/10 22:06	98-06-6	
Carbon disulfide	ND	ug/L	1.0	1		07/28/10 22:06	75-15-0	
Carbon tetrachloride	ND	ug/L	4.0	1		07/28/10 22:06	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/28/10 22:06	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/28/10 22:06	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		07/28/10 22:06	110-75-8	
Chloroform	ND	ug/L	1.0	1		07/28/10 22:06	67-66-3	
Chloromethane	ND	ug/L	4.0	1		07/28/10 22:06	74-87-3	
Chloroprene	ND	ug/L	1.0	1		07/28/10 22:06	126-99-8	
2-Chlorotoluene	ND	ug/L	1.0	1		07/28/10 22:06	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/28/10 22:06	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		07/28/10 22:06	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/28/10 22:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/28/10 22:06	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/28/10 22:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/28/10 22:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/28/10 22:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/28/10 22:06	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/28/10 22:06	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/28/10 22:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/28/10 22:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/28/10 22:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/28/10 22:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/28/10 22:06	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		07/28/10 22:06	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/28/10 22:06	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/28/10 22:06	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		07/28/10 22:06	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/28/10 22:06	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		07/28/10 22:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		07/28/10 22:06	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		07/28/10 22:06	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		07/28/10 22:06	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		07/28/10 22:06	87-68-3	

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

ANALYTICAL RESULTS

Project: City of Rochester CRC
Pace Project No.: 10134429

Sample: AS-Influent **Lab ID: 10134429001** Collected: 07/26/10 12:00 Received: 07/27/10 12:43 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV	Analytical Method: EPA 624							
2-Hexanone	ND	ug/L	4.0	1		07/28/10 22:06	591-78-6	
Iodomethane	ND	ug/L	4.0	1		07/28/10 22:06	74-88-4	L2
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		07/28/10 22:06	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/28/10 22:06	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		07/28/10 22:06	75-09-2	
2-Methylnaphthalene	ND	ug/L	5.0	1		07/28/10 22:06	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/28/10 22:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/28/10 22:06	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		07/28/10 22:06	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		07/28/10 22:06	103-65-1	
Styrene	ND	ug/L	1.0	1		07/28/10 22:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/28/10 22:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/28/10 22:06	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/28/10 22:06	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		07/28/10 22:06	109-99-9	
Toluene	ND	ug/L	1.0	1		07/28/10 22:06	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/28/10 22:06	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/28/10 22:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/28/10 22:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	4.0	1		07/28/10 22:06	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		07/28/10 22:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	4.0	1		07/28/10 22:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/28/10 22:06	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		07/28/10 22:06	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		07/28/10 22:06	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		07/28/10 22:06	108-67-8	
Vinyl acetate	ND	ug/L	20.0	1		07/28/10 22:06	108-05-4	
Vinyl chloride	ND	ug/L	0.40	1		07/28/10 22:06	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		07/28/10 22:06	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/28/10 22:06	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		07/28/10 22:06	95-47-6	
Dibromofluoromethane (S)	110	%	75-125	1		07/28/10 22:06	1868-53-7	
4-Bromofluorobenzene (S)	89	%	75-125	1		07/28/10 22:06	460-00-4	
Toluene-d8 (S)	90	%	75-125	1		07/28/10 22:06	2037-26-5	
1,2-Dichloroethane-d4 (S)	109	%	75-125	1		07/28/10 22:06	17060-07-0	

Sample: AS-Effluent **Lab ID: 10134429002** Collected: 07/26/10 12:05 Received: 07/27/10 12:43 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV	Analytical Method: EPA 624							
Acetone	ND	ug/L	10.0	1		07/28/10 22:29	67-64-1	L1
Acrolein	ND	ug/L	40.0	1		07/28/10 22:29	107-02-8	L1
Acrylonitrile	ND	ug/L	10.0	1		07/28/10 22:29	107-13-1	
Allyl chloride	ND	ug/L	4.0	1		07/28/10 22:29	107-05-1	
Benzene	ND	ug/L	1.0	1		07/28/10 22:29	71-43-2	

Pace Analytical®
www.pacelabs.com

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

ANALYTICAL RESULTS

Project: City of Rochester CRC
Pace Project No.: 10134429

Sample: AS-Effluent **Lab ID: 10134429002** Collected: 07/26/10 12:05 Received: 07/27/10 12:43 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV	Analytical Method: EPA 624							
Bromobenzene	ND	ug/L	1.0	1		07/28/10 22:29	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/28/10 22:29	74-97-5	
Bromodichloromethane	ND	ug/L	4.0	1		07/28/10 22:29	75-27-4	
Bromoform	ND	ug/L	8.0	1		07/28/10 22:29	75-25-2	
Bromomethane	ND	ug/L	4.0	1		07/28/10 22:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		07/28/10 22:29	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		07/28/10 22:29	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		07/28/10 22:29	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		07/28/10 22:29	98-06-6	
Carbon disulfide	ND	ug/L	1.0	1		07/28/10 22:29	75-15-0	
Carbon tetrachloride	ND	ug/L	4.0	1		07/28/10 22:29	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/28/10 22:29	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/28/10 22:29	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		07/28/10 22:29	110-75-8	
Chloroform	ND	ug/L	1.0	1		07/28/10 22:29	67-66-3	
Chloromethane	ND	ug/L	4.0	1		07/28/10 22:29	74-87-3	
Chloroprene	ND	ug/L	1.0	1		07/28/10 22:29	126-99-8	
2-Chlorotoluene	ND	ug/L	1.0	1		07/28/10 22:29	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/28/10 22:29	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		07/28/10 22:29	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/28/10 22:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/28/10 22:29	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/28/10 22:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/28/10 22:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/28/10 22:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/28/10 22:29	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/28/10 22:29	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/28/10 22:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/28/10 22:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/28/10 22:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/28/10 22:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/28/10 22:29	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		07/28/10 22:29	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/28/10 22:29	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/28/10 22:29	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		07/28/10 22:29	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/28/10 22:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		07/28/10 22:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		07/28/10 22:29	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		07/28/10 22:29	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		07/28/10 22:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		07/28/10 22:29	87-68-3	
2-Hexanone	ND	ug/L	4.0	1		07/28/10 22:29	591-78-6	
Iodomethane	ND	ug/L	4.0	1		07/28/10 22:29	74-88-4	L2
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		07/28/10 22:29	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/28/10 22:29	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		07/28/10 22:29	75-09-2	

Pace Analytical®
www.pacelabs.com

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

ANALYTICAL RESULTS

Project: City of Rochester CRC
Pace Project No.: 10134429

Sample: AS-Effluent **Lab ID: 10134429002** Collected: 07/26/10 12:05 Received: 07/27/10 12:43 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV	Analytical Method: EPA 624							
2-Methylnaphthalene	ND	ug/L	5.0	1		07/28/10 22:29	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/28/10 22:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/28/10 22:29	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		07/28/10 22:29	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		07/28/10 22:29	103-65-1	
Styrene	ND	ug/L	1.0	1		07/28/10 22:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/28/10 22:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/28/10 22:29	79-34-5	
Tetrachloroethene	**40.6**	ug/L	1.0	1		07/28/10 22:29	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		07/28/10 22:29	109-99-9	
Toluene	ND	ug/L	1.0	1		07/28/10 22:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/28/10 22:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/28/10 22:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/28/10 22:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	4.0	1		07/28/10 22:29	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		07/28/10 22:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	4.0	1		07/28/10 22:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/28/10 22:29	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		07/28/10 22:29	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		07/28/10 22:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		07/28/10 22:29	108-67-8	
Vinyl acetate	ND	ug/L	20.0	1		07/28/10 22:29	108-05-4	
Vinyl chloride	ND	ug/L	0.40	1		07/28/10 22:29	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		07/28/10 22:29	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/28/10 22:29	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		07/28/10 22:29	95-47-6	
Dibromofluoromethane (S)	113	%	75-125	1		07/28/10 22:29	1868-53-7	
4-Bromofluorobenzene (S)	93	%	75-125	1		07/28/10 22:29	460-00-4	
Toluene-d8 (S)	87	%	75-125	1		07/28/10 22:29	2037-26-5	
1,2-Dichloroethane-d4 (S)	114	%	75-125	1		07/28/10 22:29	17060-07-0	

Pace Analytical®
www.pacelabs.com

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

QUALITY CONTROL DATA

Project: City of Rochester CRC
Pace Project No.: 10134429

QC Batch: MSV/15043
QC Batch Method: EPA 624
Analysis Method: EPA 624
Analysis Description: 624 MSV
Associated Lab Samples: 10134429001, 10134429002

METHOD BLANK: 829845
Matrix: Water
Associated Lab Samples: 10134429001, 10134429002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	07/28/10 15:41	
1,1,1-Trichloroethane	ug/L	ND	1.0	07/28/10 15:41	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	07/28/10 15:41	
1,1,2-Trichloroethane	ug/L	ND	4.0	07/28/10 15:41	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	07/28/10 15:41	
1,1-Dichloroethane	ug/L	ND	1.0	07/28/10 15:41	
1,1-Dichloroethene	ug/L	ND	1.0	07/28/10 15:41	
1,1-Dichloropropene	ug/L	ND	1.0	07/28/10 15:41	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	07/28/10 15:41	
1,2,3-Trichloropropane	ug/L	ND	1.0	07/28/10 15:41	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	07/28/10 15:41	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	07/28/10 15:41	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	07/28/10 15:41	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	07/28/10 15:41	
1,2-Dichlorobenzene	ug/L	ND	1.0	07/28/10 15:41	
1,2-Dichloroethane	ug/L	ND	1.0	07/28/10 15:41	
1,2-Dichloropropane	ug/L	ND	1.0	07/28/10 15:41	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	07/28/10 15:41	
1,3-Dichlorobenzene	ug/L	ND	1.0	07/28/10 15:41	
1,3-Dichloropropane	ug/L	ND	1.0	07/28/10 15:41	
1,4-Dichlorobenzene	ug/L	ND	1.0	07/28/10 15:41	
2,2-Dichloropropane	ug/L	ND	4.0	07/28/10 15:41	
2-Butanone (MEK)	ug/L	ND	4.0	07/28/10 15:41	
2-Chloroethylvinyl ether	ug/L	ND	10.0	07/28/10 15:41	
2-Chlorotoluene	ug/L	ND	1.0	07/28/10 15:41	
2-Hexanone	ug/L	ND	4.0	07/28/10 15:41	
2-Methylnaphthalene	ug/L	ND	5.0	07/28/10 15:41	
4-Chlorotoluene	ug/L	ND	1.0	07/28/10 15:41	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	07/28/10 15:41	
Acetone	ug/L	ND	10.0	07/28/10 15:41	
Acrolein	ug/L	ND	40.0	07/28/10 15:41	
Acrylonitrile	ug/L	ND	10.0	07/28/10 15:41	
Allyl chloride	ug/L	ND	4.0	07/28/10 15:41	
Benzene	ug/L	ND	1.0	07/28/10 15:41	
Bromobenzene	ug/L	ND	1.0	07/28/10 15:41	
Bromochloromethane	ug/L	ND	1.0	07/28/10 15:41	
Bromodichloromethane	ug/L	ND	4.0	07/28/10 15:41	
Bromoform	ug/L	ND	8.0	07/28/10 15:41	
Bromomethane	ug/L	ND	4.0	07/28/10 15:41	
Carbon disulfide	ug/L	ND	1.0	07/28/10 15:41	
Carbon tetrachloride	ug/L	ND	4.0	07/28/10 15:41	
Chlorobenzene	ug/L	ND	1.0	07/28/10 15:41	
Chloroethane	ug/L	ND	1.0	07/28/10 15:41	

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

QUALITY CONTROL DATA

Project: City of Rochester CRC
Pace Project No.: 10134429

METHOD BLANK: 829845 Matrix: Water

Associated Lab Samples: 10134429001, 10134429002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroform	ug/L	ND	1.0	07/28/10 15:41	
Chloromethane	ug/L	ND	4.0	07/28/10 15:41	
Chloroprene	ug/L	ND	1.0	07/28/10 15:41	
cis-1,2-Dichloroethene	ug/L	ND	1.0	07/28/10 15:41	
cis-1,3-Dichloropropene	ug/L	ND	4.0	07/28/10 15:41	
Dibromochloromethane	ug/L	ND	1.0	07/28/10 15:41	
Dibromomethane	ug/L	ND	1.0	07/28/10 15:41	
Dichlorodifluoromethane	ug/L	ND	1.0	07/28/10 15:41	
Dichlorofluoromethane	ug/L	ND	1.0	07/28/10 15:41	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	07/28/10 15:41	
Ethylbenzene	ug/L	ND	1.0	07/28/10 15:41	
Hexachloro-1,3-butadiene	ug/L	ND	4.0	07/28/10 15:41	
Iodomethane	ug/L	ND	4.0	07/28/10 15:41	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	07/28/10 15:41	
m&p-Xylene	ug/L	ND	2.0	07/28/10 15:41	
Methyl-tert-butyl ether	ug/L	ND	1.0	07/28/10 15:41	
Methylene Chloride	ug/L	ND	4.0	07/28/10 15:41	
n-Butylbenzene	ug/L	ND	1.0	07/28/10 15:41	
n-Propylbenzene	ug/L	ND	1.0	07/28/10 15:41	
Naphthalene	ug/L	ND	4.0	07/28/10 15:41	
o-Xylene	ug/L	ND	1.0	07/28/10 15:41	
p-Isopropyltoluene	ug/L	ND	1.0	07/28/10 15:41	
sec-Butylbenzene	ug/L	ND	1.0	07/28/10 15:41	
Styrene	ug/L	ND	1.0	07/28/10 15:41	
tert-Butylbenzene	ug/L	ND	1.0	07/28/10 15:41	
Tetrachloroethene	ug/L	ND	1.0	07/28/10 15:41	
Tetrahydrofuran	ug/L	ND	10.0	07/28/10 15:41	
Toluene	ug/L	ND	1.0	07/28/10 15:41	
trans-1,2-Dichloroethene	ug/L	ND	1.0	07/28/10 15:41	
trans-1,3-Dichloropropene	ug/L	ND	4.0	07/28/10 15:41	
Trichloroethene	ug/L	ND	1.0	07/28/10 15:41	
Trichlorofluoromethane	ug/L	ND	4.0	07/28/10 15:41	
Vinyl acetate	ug/L	ND	20.0	07/28/10 15:41	
Vinyl chloride	ug/L	ND	0.40	07/28/10 15:41	
Xylene (Total)	ug/L	ND	3.0	07/28/10 15:41	
1,2-Dichloroethane-d4 (S)	%	109	75-125	07/28/10 15:41	
4-Bromofluorobenzene (S)	%	97	75-125	07/28/10 15:41	
Dibromofluoromethane (S)	%	115	75-125	07/28/10 15:41	
Toluene-d8 (S)	%	95	75-125	07/28/10 15:41	

LABORATORY CONTROL SAMPLE: 829846

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	46.4	93	75-129	
1,1,1-Trichloroethane	ug/L	50	48.7	97	73-144	

Pace Analytical®
www.pacelabs.com

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

QUALITY CONTROL DATA

Project: City of Rochester CRC
Pace Project No.: 10134429

LABORATORY CONTROL SAMPLE: 829846

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	50	42.8	86	75-125	
1,1,2-Trichloroethane	ug/L	50	45.6	91	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	52.9	106	75-143	
1,1-Dichloroethane	ug/L	50	44.7	89	75-135	
1,1-Dichloroethene	ug/L	50	49.2	98	75-133	
1,1-Dichloropropene	ug/L	50	44.9	90	75-131	
1,2,3-Trichlorobenzene	ug/L	50	47.3	95	73-141	
1,2,3-Trichloropropane	ug/L	50	47.1	94	75-126	
1,2,4-Trichlorobenzene	ug/L	50	48.2	96	70-148	
1,2,4-Trimethylbenzene	ug/L	50	48.4	97	75-141	
1,2-Dibromo-3-chloropropane	ug/L	50	45.7	91	64-135	
1,2-Dibromoethane (EDB)	ug/L	50	48.3	97	75-125	
1,2-Dichlorobenzene	ug/L	50	46.7	93	75-125	
1,2-Dichloroethane	ug/L	50	47.2	94	75-136	
1,2-Dichloropropane	ug/L	50	46.1	92	75-130	
1,3,5-Trimethylbenzene	ug/L	50	48.0	96	75-141	
1,3-Dichlorobenzene	ug/L	50	47.4	95	75-125	
1,3-Dichloropropane	ug/L	50	48.7	97	75-125	
1,4-Dichlorobenzene	ug/L	50	45.9	92	75-125	
2,2-Dichloropropane	ug/L	50	47.0	94	50-150	
2-Butanone (MEK)	ug/L	50	57.0	114	58-138	
2-Chloroethylvinyl ether	ug/L	125	118	94	50-150	
2-Chlorotoluene	ug/L	50	46.5	93	75-132	
2-Hexanone	ug/L	50	54.3	109	65-135	
2-Methylnaphthalene	ug/L	50	52.9	106	62-150	
4-Chlorotoluene	ug/L	50	47.1	94	75-135	
4-Methyl-2-pentanone (MIBK)	ug/L	50	43.9	88	69-137	
Acetone	ug/L	125	184	147	52-141	CH,L3
Acrolein	ug/L	500	1550	309	50-150	CH,L3
Acrylonitrile	ug/L	500	457	91	75-130	
Allyl chloride	ug/L	50	46.8	94	68-150	
Benzene	ug/L	50	45.4	91	75-125	
Bromobenzene	ug/L	50	47.3	95	75-125	
Bromochloromethane	ug/L	50	48.8	98	75-129	
Bromodichloromethane	ug/L	50	47.5	95	75-142	
Bromoform	ug/L	100	97.2	97	66-135	
Bromomethane	ug/L	50	52.7	105	57-150	
Carbon disulfide	ug/L	50	41.6	83	65-132	
Carbon tetrachloride	ug/L	50	47.4	95	75-148	
Chlorobenzene	ug/L	50	47.6	95	75-125	
Chloroethane	ug/L	50	49.6	99	66-142	
Chloroform	ug/L	50	48.0	96	75-131	
Chloromethane	ug/L	50	45.5	91	52-147	
Chloroprene	ug/L	50	45.4	91	71-147	
cis-1,2-Dichloroethene	ug/L	50	47.0	94	75-126	
cis-1,3-Dichloropropene	ug/L	50	47.7	95	69-150	
Dibromochloromethane	ug/L	50	46.2	92	73-138	
Dibromomethane	ug/L	50	44.9	90	75-127	

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

QUALITY CONTROL DATA

Project: City of Rochester CRC
Pace Project No.: 10134429

LABORATORY CONTROL SAMPLE: 829846

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dichlorodifluoromethane	ug/L	50	53.5	107	50-150	
Dichlorofluoromethane	ug/L	50	48.9	98	75-129	
Diethyl ether (Ethyl ether)	ug/L	50	45.8	92	75-126	
Ethylbenzene	ug/L	50	47.4	95	75-132	
Hexachloro-1,3-butadiene	ug/L	50	44.2	88	75-129	
Iodomethane	ug/L	50	35.5	71	73-150	L0
Isopropylbenzene (Cumene)	ug/L	50	49.3	99	75-142	
m&p-Xylene	ug/L	100	98.9	99	75-131	
Methyl-tert-butyl ether	ug/L	50	46.4	93	75-130	
Methylene Chloride	ug/L	50	49.9	100	71-125	
n-Butylbenzene	ug/L	50	46.9	94	70-148	
n-Propylbenzene	ug/L	50	46.4	93	75-136	
Naphthalene	ug/L	50	43.8	88	69-145	
o-Xylene	ug/L	50	50.4	101	75-129	
p-Isopropyltoluene	ug/L	50	45.8	92	75-132	
sec-Butylbenzene	ug/L	50	48.2	96	75-136	
Styrene	ug/L	50	49.3	99	75-125	
tert-Butylbenzene	ug/L	50	48.5	97	75-135	
Tetrachloroethene	ug/L	50	47.4	95	75-125	
Tetrahydrofuran	ug/L	500	497	99	63-144	
Toluene	ug/L	50	45.5	91	75-125	
trans-1,2-Dichloroethene	ug/L	50	46.4	93	72-135	
trans-1,3-Dichloropropene	ug/L	50	48.4	97	62-150	
Trichloroethene	ug/L	50	49.2	98	75-125	
Trichlorofluoromethane	ug/L	50	51.5	103	67-150	
Vinyl acetate	ug/L	50	44.3	89	55-150	
Vinyl chloride	ug/L	50	50.5	101	63-147	
Xylene (Total)	ug/L	150	149	100	75-130	
1,2-Dichloroethane-d4 (S)	%			94	75-125	
4-Bromofluorobenzene (S)	%			93	75-125	
Dibromofluoromethane (S)	%			98	75-125	
Toluene-d8 (S)	%			96	75-125	

MATRIX SPIKE SAMPLE: 830216

Parameter	Units	10134441032 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	19.9	100	70-136	
1,1,1-Trichloroethane	ug/L	ND	20	21.8	109	68-150	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	16.7	84	75-125	
1,1,2-Trichloroethane	ug/L	ND	20	18.6	93	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	24.7	123	75-150	
1,1-Dichloroethane	ug/L	ND	20	19.1	96	67-143	
1,1-Dichloroethene	ug/L	ND	20	22.2	111	75-147	
1,1-Dichloropropene	ug/L	ND	20	20.3	101	75-141	
1,2,3-Trichlorobenzene	ug/L	ND	20	20.7	103	71-141	
1,2,3-Trichloropropane	ug/L	ND	20	19.0	95	75-128	
1,2,4-Trichlorobenzene	ug/L	ND	20	19.3	97	61-148	

Pace Analytical®
www.pacelabs.com

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

QUALITY CONTROL DATA

Project: City of Rochester CRC
Pace Project No.: 10134429

MATRIX SPIKE SAMPLE: 830216

Parameter	Units	10134441032 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	ND	20	20.9	104	65-145	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20.4	102	64-135	
1,2-Dibromoethane (EDB)	ug/L	ND	20	19.6	98	75-126	
1,2-Dichlorobenzene	ug/L	ND	20	21.0	105	75-127	
1,2-Dichloroethane	ug/L	ND	20	20.0	100	70-138	
1,2-Dichloropropane	ug/L	ND	20	20.1	101	75-130	
1,3,5-Trimethylbenzene	ug/L	ND	20	20.2	101	61-150	
1,3-Dichlorobenzene	ug/L	ND	20	20.2	101	75-126	
1,3-Dichloropropane	ug/L	ND	20	19.4	97	75-125	
1,4-Dichlorobenzene	ug/L	ND	20	21.0	105	75-125	
2,2-Dichloropropane	ug/L	ND	20	21.3	106	50-150	
2-Butanone (MEK)	ug/L	ND	20	16.6	83	50-141	
2-Chloroethylvinyl ether	ug/L	ND	50	8.1J	16	50-150	P5
2-Chlorotoluene	ug/L	ND	20	20.2	101	75-137	
2-Hexanone	ug/L	ND	20	15.4	77	66-135	
2-Methylnaphthalene	ug/L	ND	20	26.7	134	62-150	
4-Chlorotoluene	ug/L	ND	20	20.5	102	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	16.7	84	62-142	
Acetone	ug/L	ND	50	41.5	83	50-150	CH
Acrolein	ug/L	ND	200	1010	507	50-150	CH,M0
Acrylonitrile	ug/L	ND	200	192	96	70-135	
Allyl chloride	ug/L	ND	20	22.7	113	50-150	
Benzene	ug/L	ND	20	19.8	99	75-125	
Bromobenzene	ug/L	ND	20	20.0	100	75-125	
Bromochloromethane	ug/L	ND	20	19.4	97	73-137	
Bromodichloromethane	ug/L	ND	20	20.0	100	70-142	
Bromoform	ug/L	ND	40	38.9	97	55-135	
Bromomethane	ug/L	ND	20	22.1	110	50-150	
Carbon disulfide	ug/L	ND	20	20.4	102	50-150	
Carbon tetrachloride	ug/L	ND	20	21.5	108	64-150	
Chlorobenzene	ug/L	ND	20	20.4	102	75-125	
Chloroethane	ug/L	ND	20	23.0	115	59-150	
Chloroform	ug/L	ND	20	21.1	106	75-132	
Chloromethane	ug/L	ND	20	19.6	98	52-150	
Chloroprene	ug/L	ND	20	19.9	99	54-150	
cis-1,2-Dichloroethene	ug/L	ND	20	21.4	107	64-144	
cis-1,3-Dichloropropene	ug/L	ND	20	19.8	99	56-150	
Dibromochloromethane	ug/L	ND	20	19.3	96	60-138	
Dibromomethane	ug/L	ND	20	19.4	97	75-127	
Dichlorodifluoromethane	ug/L	ND	20	24.8	124	50-150	
Dichlorofluoromethane	ug/L	ND	20	22.1	110	74-142	
Diethyl ether (Ethyl ether)	ug/L	ND	20	21.3	106	75-127	
Ethylbenzene	ug/L	ND	20	20.1	101	75-134	
Hexachloro-1,3-butadiene	ug/L	ND	20	24.4	122	63-150	
Iodomethane	ug/L	ND	20	14.7	74	50-150	
Isopropylbenzene (Cumene)	ug/L	ND	20	21.3	106	69-147	
m&p-Xylene	ug/L	ND	40	43.6	109	75-133	
Methyl-tert-butyl ether	ug/L	ND	20	19.7	98	73-131	

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

QUALITY CONTROL DATA

Project: City of Rochester CRC
Pace Project No.: 10134429

MATRIX SPIKE SAMPLE: 830216

Parameter	Units	10134441032 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	ND	20	21.5	108	68-126	
n-Butylbenzene	ug/L	ND	20	20.9	104	59-150	
n-Propylbenzene	ug/L	ND	20	20.6	103	72-143	
Naphthalene	ug/L	ND	20	17.7	88	57-148	
o-Xylene	ug/L	ND	20	20.4	102	75-131	
p-Isopropyltoluene	ug/L	ND	20	19.3	97	75-137	
sec-Butylbenzene	ug/L	ND	20	21.4	107	75-144	
Styrene	ug/L	ND	20	20.9	104	75-134	
tert-Butylbenzene	ug/L	ND	20	20.5	103	68-150	
Tetrachloroethene	ug/L	ND	20	21.3	107	75-130	
Tetrahydrofuran	ug/L	ND	200	183	91	60-148	
Toluene	ug/L	ND	20	19.6	98	75-125	
trans-1,2-Dichloroethene	ug/L	ND	20	21.2	106	75-145	
trans-1,3-Dichloropropene	ug/L	ND	20	19.8	99	50-150	
Trichloroethene	ug/L	ND	20	21.9	109	73-132	
Trichlorofluoromethane	ug/L	ND	20	23.0	115	67-150	
Vinyl acetate	ug/L	ND	20	19J	95	50-150	
Vinyl chloride	ug/L	ND	20	21.8	109	63-150	
Xylene (Total)	ug/L	ND	60	63.9	107	72-138	
1,2-Dichloroethane-d4 (S)	%				93	75-125	
4-Bromofluorobenzene (S)	%				92	75-125	
Dibromofluoromethane (S)	%				97	75-125	
Toluene-d8 (S)	%				93	75-125	

SAMPLE DUPLICATE: 830217

Parameter	Units	10134441035 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	

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

QUALITY CONTROL DATA

Project: City of Rochester CRC
Pace Project No.: 10134429

SAMPLE DUPLICATE: 830217

Parameter	Units	10134441035 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dichlorobenzene	ug/L	ND	ND		30	
2,2-Dichloropropane	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	ND	ND		30	
2-Chloroethylvinyl ether	ug/L	ND	ND		30	
2-Chlorotoluene	ug/L	ND	ND		30	
2-Hexanone	ug/L	ND	ND		30	
2-Methylnaphthalene	ug/L	ND	ND		30	
4-Chlorotoluene	ug/L	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	
Acetone	ug/L	ND	ND		30	
Acrolein	ug/L	ND	ND		30	
Acrylonitrile	ug/L	ND	ND		30	
Allyl chloride	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Bromobenzene	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	
Carbon disulfide	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroethane	ug/L	ND	ND		30	
Chloroform	ug/L	ND	ND		30	
Chloromethane	ug/L	ND	ND		30	
Chloroprene	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	ND	ND		30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Dichlorofluoromethane	ug/L	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
Iodomethane	ug/L	ND	ND		30	
Isopropylbenzene (Cumene)	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	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	

Pace Analytical®
www.pacelabs.com

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

QUALITY CONTROL DATA

Project: City of Rochester CRC
Pace Project No.: 10134429

SAMPLE DUPLICATE: 830217

Parameter	Units	10134441035 Result	Dup Result	RPD	Max RPD	Qualifiers
Tetrachloroethene	ug/L	ND	ND		30	
Tetrahydrofuran	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl acetate	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	109	111	2		
4-Bromofluorobenzene (S)	%	95	87	9		
Dibromofluoromethane (S)	%	114	109	5		
Toluene-d8 (S)	%	98	89	9		

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

QUALIFIERS

Project: City of Rochester CRC
Pace Project No.: 10134429

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

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

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

SAMPLE QUALIFIERS

Sample: 10134429001

[1] Results were confirmed by re-analysis.

Sample: 10134429002

[1] Results were confirmed by re-analysis.

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
P5	The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

Pace Analytical™
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

1013442

Page: 1 of 1

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

REGULATORY AGENCY

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

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

Section D Required Client Information

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

Valid Matrix Codes

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

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analyses Test: EPA 624	Pace Project Number / Lab I.D.
1	AS-Influent	W	G	7/26/10	12:00				3									X	001
2	AS-Effluent	W	G	7/26/10	12:05				3									X	002
3																			
4																			
5																			
6																			
7																			
8																			
5																			
6																			
7																			
8																			

Filtered (Y/N)

Requested Ana

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
			PaceMN	7/27/10	1243

SAMPLE CONDITIONS

Temp In °C	Received on Ice	Custody Sealed Cooler	Samples Intact
4.0°c	(Y/N)	(Y/N)	(Y/N)
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

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

F:\PROJECTS\Crc-City of Rochester\Analytical Reports\coc 7-26-10 system.XLS

Sample Condition Upon Receipt

Pace Analytical

Client Name: Landmark Project # 1034429

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

Tracking #: _____

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

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

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

Cooler Temperature: 4.0 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Comments:

Date and initials of person examining contents: 7/27/10 SH

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: CRM **Date:** 7/27/10

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

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

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

August 26, 2010

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

RE: Project: City of Rochester
Pace Project No.: 10136159

Dear Mr. Skramstad:
Enclosed are the analytical results for sample(s) received by the laboratory on August 19, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Carolynne Trout

Carolynne Trout

carolynne.trout@pacelabs.com
Project Manager

Enclosures

Pace Analytical®
www.pacelabs.com

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

CERTIFICATIONS

Project: City of Rochester
Pace Project No.: 10136159

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New Mexico Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: D9921
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Washington Certification #: C754
Wisconsin Certification #: 999407970

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

SAMPLE SUMMARY

Project: City of Rochester
Pace Project No.: 10136159

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10136159001	MW-17	Water	08/18/10 15:59	08/19/10 15:23
10136159002	MW-18	Water	08/18/10 15:35	08/19/10 15:23
10136159003	DPE-1	Water	08/18/10 18:00	08/19/10 15:23
10136159004	DPE-2	Water	08/18/10 18:10	08/19/10 15:23
10136159005	DPE-3	Water	08/18/10 18:20	08/19/10 15:23
10136159006	DPE-4	Water	08/18/10 18:30	08/19/10 15:23
10136159007	DPE-5	Water	08/18/10 18:40	08/19/10 15:23
10136159008	DPE-6	Water	08/18/10 18:50	08/19/10 15:23
10136159009	DPE-7	Water	08/18/10 19:00	08/19/10 15:23
10136159010	DPE-8	Water	08/18/10 19:10	08/19/10 15:23
10136159011	MW-15	Water	08/18/10 14:59	08/19/10 15:23
10136159012	MW-16	Water	08/18/10 16:49	08/19/10 15:23
10136159013	MW-14	Water	08/18/10 14:40	08/19/10 15:23
10136159014	MW-19	Water	08/18/10 14:00	08/19/10 15:23
10136159015	MW-20	Water	08/18/10 16:20	08/19/10 15:23
10136159016	Trip Blank	Water		08/19/10 15:23

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

SAMPLE ANALYTE COUNT

Project: City of Rochester
Pace Project No.: 10136159

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10136159001	MW-17	EPA 8260	DRE	73
10136159002	MW-18	EPA 8260	ECB	73
10136159003	DPE-1	EPA 8260	ECB	73
10136159004	DPE-2	EPA 8260	DRE	73
10136159005	DPE-3	EPA 8260	DRE	73
10136159006	DPE-4	EPA 8260	DRE	73
10136159007	DPE-5	EPA 8260	DRE	73
10136159008	DPE-6	EPA 8260	DRE	73
10136159009	DPE-7	EPA 8260	DRE	73
10136159010	DPE-8	EPA 8260	DRE	73
10136159011	MW-15	EPA 8260	DRE	73
10136159012	MW-16	EPA 8260	DRE	73
10136159013	MW-14	EPA 8260	DRE	73
10136159014	MW-19	EPA 8260	DRE	73
10136159015	MW-20	EPA 8260	DRE	73
10136159016	Trip Blank	EPA 8260	DRE	73

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

ANALYTICAL RESULTS

Project: City of Rochester
Pace Project No.: 10136159

Sample: MW-17 **Lab ID: 10136159001** Collected: 08/18/10 15:59 Received: 08/19/10 15:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		08/25/10 17:59	67-64-1	L3
Allyl chloride	ND	ug/L	4.0	1		08/25/10 17:59	107-05-1	
Benzene	ND	ug/L	1.0	1		08/25/10 17:59	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		08/25/10 17:59	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		08/25/10 17:59	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		08/25/10 17:59	75-27-4	
Bromoform	ND	ug/L	8.0	1		08/25/10 17:59	75-25-2	
Bromomethane	ND	ug/L	4.0	1		08/25/10 17:59	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		08/25/10 17:59	78-93-3	L3
n-Butylbenzene	ND	ug/L	1.0	1		08/25/10 17:59	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		08/25/10 17:59	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		08/25/10 17:59	98-06-6	
Carbon tetrachloride	ND	ug/L	4.0	1		08/25/10 17:59	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		08/25/10 17:59	108-90-7	
Chloroethane	ND	ug/L	1.0	1		08/25/10 17:59	75-00-3	
Chloroform	**2.5**	ug/L	1.0	1		08/25/10 17:59	67-66-3	
Chloromethane	ND	ug/L	4.0	1		08/25/10 17:59	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		08/25/10 17:59	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		08/25/10 17:59	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		08/25/10 17:59	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		08/25/10 17:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		08/25/10 17:59	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		08/25/10 17:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		08/25/10 17:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		08/25/10 17:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		08/25/10 17:59	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		08/25/10 17:59	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		08/25/10 17:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		08/25/10 17:59	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		08/25/10 17:59	75-35-4	
cis-1,2-Dichloroethene	**2.4**	ug/L	1.0	1		08/25/10 17:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		08/25/10 17:59	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		08/25/10 17:59	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		08/25/10 17:59	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		08/25/10 17:59	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		08/25/10 17:59	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		08/25/10 17:59	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		08/25/10 17:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		08/25/10 17:59	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		08/25/10 17:59	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		08/25/10 17:59	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		08/25/10 17:59	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		08/25/10 17:59	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		08/25/10 17:59	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		08/25/10 17:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		08/25/10 17:59	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		08/25/10 17:59	1634-04-4	

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

ANALYTICAL RESULTS

Project: City of Rochester
Pace Project No.: 10136159

Sample: MW-17 **Lab ID: 10136159001** Collected: 08/18/10 15:59 Received: 08/19/10 15:23 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		08/25/10 17:59	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		08/25/10 17:59	103-65-1	
Styrene	ND	ug/L	1.0	1		08/25/10 17:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		08/25/10 17:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		08/25/10 17:59	79-34-5	
Tetrachloroethene	**174**	ug/L	1.0	1		08/25/10 17:59	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		08/25/10 17:59	109-99-9	
Toluene	ND	ug/L	1.0	1		08/25/10 17:59	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		08/25/10 17:59	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		08/25/10 17:59	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		08/25/10 17:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		08/25/10 17:59	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		08/25/10 17:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		08/25/10 17:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		08/25/10 17:59	96-18-4	
1,1,2-Trichlorotrifluoroethane	**25.4**	ug/L	1.0	1		08/25/10 17:59	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		08/25/10 17:59	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		08/25/10 17:59	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		08/25/10 17:59	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		08/25/10 17:59	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		08/25/10 17:59	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		08/25/10 17:59	95-47-6	
Dibromofluoromethane (S)	116	%	75-130	1		08/25/10 17:59	1868-53-7	
1,2-Dichloroethane-d4 (S)	115	%	75-131	1		08/25/10 17:59	17060-07-0	
Toluene-d8 (S)	92	%	75-125	1		08/25/10 17:59	2037-26-5	
4-Bromofluorobenzene (S)	96	%	75-125	1		08/25/10 17:59	460-00-4	

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

ANALYTICAL RESULTS

Project: City of Rochester
Pace Project No.: 10136159

Sample: MW-18 **Lab ID: 10136159002** Collected: 08/18/10 15:35 Received: 08/19/10 15:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		08/20/10 17:51	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		08/20/10 17:51	107-05-1	
Benzene	ND	ug/L	1.0	1		08/20/10 17:51	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		08/20/10 17:51	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		08/20/10 17:51	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		08/20/10 17:51	75-27-4	
Bromoform	ND	ug/L	8.0	1		08/20/10 17:51	75-25-2	
Bromomethane	ND	ug/L	4.0	1		08/20/10 17:51	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		08/20/10 17:51	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		08/20/10 17:51	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		08/20/10 17:51	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		08/20/10 17:51	98-06-6	
Carbon tetrachloride	ND	ug/L	4.0	1		08/20/10 17:51	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		08/20/10 17:51	108-90-7	
Chloroethane	ND	ug/L	1.0	1		08/20/10 17:51	75-00-3	
Chloroform	ND	ug/L	1.0	1		08/20/10 17:51	67-66-3	
Chloromethane	ND	ug/L	4.0	1		08/20/10 17:51	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		08/20/10 17:51	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		08/20/10 17:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		08/20/10 17:51	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		08/20/10 17:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		08/20/10 17:51	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		08/20/10 17:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		08/20/10 17:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		08/20/10 17:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		08/20/10 17:51	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		08/20/10 17:51	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		08/20/10 17:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		08/20/10 17:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		08/20/10 17:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		08/20/10 17:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		08/20/10 17:51	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		08/20/10 17:51	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		08/20/10 17:51	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		08/20/10 17:51	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		08/20/10 17:51	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		08/20/10 17:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		08/20/10 17:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		08/20/10 17:51	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		08/20/10 17:51	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		08/20/10 17:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		08/20/10 17:51	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		08/20/10 17:51	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		08/20/10 17:51	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		08/20/10 17:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		08/20/10 17:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		08/20/10 17:51	1634-04-4	

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

ANALYTICAL RESULTS

Project: City of Rochester
Pace Project No.: 10136159

Sample: MW-18 **Lab ID: 10136159002** Collected: 08/18/10 15:35 Received: 08/19/10 15:23 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		08/20/10 17:51	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		08/20/10 17:51	103-65-1	
Styrene	ND	ug/L	1.0	1		08/20/10 17:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		08/20/10 17:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		08/20/10 17:51	79-34-5	
Tetrachloroethene	**8.4**	ug/L	1.0	1		08/20/10 17:51	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		08/20/10 17:51	109-99-9	
Toluene	ND	ug/L	1.0	1		08/20/10 17:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		08/20/10 17:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		08/20/10 17:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		08/20/10 17:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		08/20/10 17:51	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		08/20/10 17:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		08/20/10 17:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		08/20/10 17:51	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		08/20/10 17:51	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		08/20/10 17:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		08/20/10 17:51	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		08/20/10 17:51	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		08/20/10 17:51	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		08/20/10 17:51	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		08/20/10 17:51	95-47-6	
Dibromofluoromethane (S)	103	%	75-130	1		08/20/10 17:51	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	75-131	1		08/20/10 17:51	17060-07-0	
Toluene-d8 (S)	92	%	75-125	1		08/20/10 17:51	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125	1		08/20/10 17:51	460-00-4	

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

ANALYTICAL RESULTS

Project: City of Rochester
Pace Project No.: 10136159

Sample: DPE-1 **Lab ID: 10136159003** Collected: 08/18/10 18:00 Received: 08/19/10 15:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	50.0	5		08/20/10 22:00	67-64-1	
Allyl chloride	ND	ug/L	20.0	5		08/20/10 22:00	107-05-1	
Benzene	ND	ug/L	5.0	5		08/20/10 22:00	71-43-2	
Bromobenzene	ND	ug/L	5.0	5		08/20/10 22:00	108-86-1	
Bromochloromethane	ND	ug/L	5.0	5		08/20/10 22:00	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	5		08/20/10 22:00	75-27-4	
Bromoform	ND	ug/L	40.0	5		08/20/10 22:00	75-25-2	
Bromomethane	ND	ug/L	20.0	5		08/20/10 22:00	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	5		08/20/10 22:00	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	5		08/20/10 22:00	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	5		08/20/10 22:00	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	5		08/20/10 22:00	98-06-6	
Carbon tetrachloride	ND	ug/L	20.0	5		08/20/10 22:00	56-23-5	
Chlorobenzene	ND	ug/L	5.0	5		08/20/10 22:00	108-90-7	
Chloroethane	ND	ug/L	5.0	5		08/20/10 22:00	75-00-3	
Chloroform	ND	ug/L	5.0	5		08/20/10 22:00	67-66-3	
Chloromethane	ND	ug/L	20.0	5		08/20/10 22:00	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	5		08/20/10 22:00	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	5		08/20/10 22:00	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	20.0	5		08/20/10 22:00	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	5		08/20/10 22:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	5		08/20/10 22:00	106-93-4	
Dibromomethane	ND	ug/L	20.0	5		08/20/10 22:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	5		08/20/10 22:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	5		08/20/10 22:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	5		08/20/10 22:00	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	5		08/20/10 22:00	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	5		08/20/10 22:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	5		08/20/10 22:00	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	5		08/20/10 22:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	5		08/20/10 22:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	5		08/20/10 22:00	156-60-5	
Dichlorofluoromethane	ND	ug/L	5.0	5		08/20/10 22:00	75-43-4	
1,2-Dichloropropane	ND	ug/L	5.0	5		08/20/10 22:00	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	5		08/20/10 22:00	142-28-9	
2,2-Dichloropropane	ND	ug/L	20.0	5		08/20/10 22:00	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	5		08/20/10 22:00	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	20.0	5		08/20/10 22:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	20.0	5		08/20/10 22:00	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	20.0	5		08/20/10 22:00	60-29-7	
Ethylbenzene	ND	ug/L	5.0	5		08/20/10 22:00	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	20.0	5		08/20/10 22:00	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	5		08/20/10 22:00	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	5		08/20/10 22:00	99-87-6	
Methylene Chloride	ND	ug/L	20.0	5		08/20/10 22:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	20.0	5		08/20/10 22:00	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	5		08/20/10 22:00	1634-04-4	

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

ANALYTICAL RESULTS

Project: City of Rochester
Pace Project No.: 10136159

Sample: DPE-1 **Lab ID: 10136159003** Collected: 08/18/10 18:00 Received: 08/19/10 15:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Naphthalene	ND	ug/L	20.0	5		08/20/10 22:00	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	5		08/20/10 22:00	103-65-1	
Styrene	ND	ug/L	5.0	5		08/20/10 22:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	5		08/20/10 22:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		08/20/10 22:00	79-34-5	
Tetrachloroethene	**965**	ug/L	5.0	5		08/20/10 22:00	127-18-4	
Tetrahydrofuran	ND	ug/L	50.0	5		08/20/10 22:00	109-99-9	
Toluene	ND	ug/L	5.0	5		08/20/10 22:00	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	5		08/20/10 22:00	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	5		08/20/10 22:00	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	5		08/20/10 22:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	5		08/20/10 22:00	79-00-5	
Trichloroethene	ND	ug/L	5.0	5		08/20/10 22:00	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	5		08/20/10 22:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	5		08/20/10 22:00	96-18-4	
1,1,2-Trichlorotrifluoroethane	**66.4**	ug/L	5.0	5		08/20/10 22:00	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	5		08/20/10 22:00	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	5		08/20/10 22:00	108-67-8	
Vinyl chloride	ND	ug/L	2.0	5		08/20/10 22:00	75-01-4	
Xylene (Total)	ND	ug/L	15.0	5		08/20/10 22:00	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	5		08/20/10 22:00	1330-20-7	
o-Xylene	ND	ug/L	5.0	5		08/20/10 22:00	95-47-6	
Dibromofluoromethane (S)	105	%	75-130	5		08/20/10 22:00	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	75-131	5		08/20/10 22:00	17060-07-0	
Toluene-d8 (S)	93	%	75-125	5		08/20/10 22:00	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125	5		08/20/10 22:00	460-00-4	

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

ANALYTICAL RESULTS

Project: City of Rochester
Pace Project No.: 10136159

Sample: DPE-2 **Lab ID: 10136159004** Collected: 08/18/10 18:10 Received: 08/19/10 15:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	500	50		08/23/10 18:59	67-64-1	
Allyl chloride	ND	ug/L	200	50		08/23/10 18:59	107-05-1	
Benzene	ND	ug/L	50.0	50		08/23/10 18:59	71-43-2	
Bromobenzene	ND	ug/L	50.0	50		08/23/10 18:59	108-86-1	
Bromochloromethane	ND	ug/L	50.0	50		08/23/10 18:59	74-97-5	
Bromodichloromethane	ND	ug/L	50.0	50		08/23/10 18:59	75-27-4	
Bromoform	ND	ug/L	400	50		08/23/10 18:59	75-25-2	
Bromomethane	ND	ug/L	200	50		08/23/10 18:59	74-83-9	
2-Butanone (MEK)	ND	ug/L	200	50		08/23/10 18:59	78-93-3	
n-Butylbenzene	ND	ug/L	50.0	50		08/23/10 18:59	104-51-8	
sec-Butylbenzene	ND	ug/L	50.0	50		08/23/10 18:59	135-98-8	
tert-Butylbenzene	ND	ug/L	50.0	50		08/23/10 18:59	98-06-6	
Carbon tetrachloride	ND	ug/L	200	50		08/23/10 18:59	56-23-5	
Chlorobenzene	ND	ug/L	50.0	50		08/23/10 18:59	108-90-7	
Chloroethane	ND	ug/L	50.0	50		08/23/10 18:59	75-00-3	
Chloroform	ND	ug/L	50.0	50		08/23/10 18:59	67-66-3	
Chloromethane	ND	ug/L	200	50		08/23/10 18:59	74-87-3	
2-Chlorotoluene	ND	ug/L	50.0	50		08/23/10 18:59	95-49-8	
4-Chlorotoluene	ND	ug/L	50.0	50		08/23/10 18:59	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	200	50		08/23/10 18:59	96-12-8	
Dibromochloromethane	ND	ug/L	50.0	50		08/23/10 18:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	50.0	50		08/23/10 18:59	106-93-4	
Dibromomethane	ND	ug/L	200	50		08/23/10 18:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	50.0	50		08/23/10 18:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	50.0	50		08/23/10 18:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	50.0	50		08/23/10 18:59	106-46-7	
Dichlorodifluoromethane	ND	ug/L	50.0	50		08/23/10 18:59	75-71-8	
1,1-Dichloroethane	ND	ug/L	50.0	50		08/23/10 18:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	50.0	50		08/23/10 18:59	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	50		08/23/10 18:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	50.0	50		08/23/10 18:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	50.0	50		08/23/10 18:59	156-60-5	
Dichlorofluoromethane	ND	ug/L	50.0	50		08/23/10 18:59	75-43-4	
1,2-Dichloropropane	ND	ug/L	50.0	50		08/23/10 18:59	78-87-5	
1,3-Dichloropropane	ND	ug/L	50.0	50		08/23/10 18:59	142-28-9	
2,2-Dichloropropane	ND	ug/L	200	50		08/23/10 18:59	594-20-7	
1,1-Dichloropropene	ND	ug/L	50.0	50		08/23/10 18:59	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	200	50		08/23/10 18:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	200	50		08/23/10 18:59	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	200	50		08/23/10 18:59	60-29-7	
Ethylbenzene	ND	ug/L	50.0	50		08/23/10 18:59	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	200	50		08/23/10 18:59	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	50.0	50		08/23/10 18:59	98-82-8	
p-Isopropyltoluene	ND	ug/L	50.0	50		08/23/10 18:59	99-87-6	
Methylene Chloride	ND	ug/L	200	50		08/23/10 18:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	200	50		08/23/10 18:59	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	50.0	50		08/23/10 18:59	1634-04-4	

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

ANALYTICAL RESULTS

Project: City of Rochester
Pace Project No.: 10136159

Sample: DPE-2 **Lab ID: 10136159004** Collected: 08/18/10 18:10 Received: 08/19/10 15:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Naphthalene	ND	ug/L	200	50		08/23/10 18:59	91-20-3	
n-Propylbenzene	ND	ug/L	50.0	50		08/23/10 18:59	103-65-1	
Styrene	ND	ug/L	50.0	50		08/23/10 18:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	50.0	50		08/23/10 18:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	50.0	50		08/23/10 18:59	79-34-5	
Tetrachloroethene	**12100**	ug/L	100	100		08/25/10 21:20	127-18-4	
Tetrahydrofuran	ND	ug/L	500	50		08/23/10 18:59	109-99-9	
Toluene	ND	ug/L	50.0	50		08/23/10 18:59	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	50.0	50		08/23/10 18:59	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	50.0	50		08/23/10 18:59	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	50.0	50		08/23/10 18:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	50.0	50		08/23/10 18:59	79-00-5	
Trichloroethene	ND	ug/L	50.0	50		08/23/10 18:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	50.0	50		08/23/10 18:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	50.0	50		08/23/10 18:59	96-18-4	
1,1,2-Trichlorotrifluoroethane	**997**	ug/L	50.0	50		08/23/10 18:59	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	50.0	50		08/23/10 18:59	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	50.0	50		08/23/10 18:59	108-67-8	
Vinyl chloride	ND	ug/L	20.0	50		08/23/10 18:59	75-01-4	
Xylene (Total)	ND	ug/L	150	50		08/23/10 18:59	1330-20-7	
m&p-Xylene	ND	ug/L	100	50		08/23/10 18:59	1330-20-7	
o-Xylene	ND	ug/L	50.0	50		08/23/10 18:59	95-47-6	
Dibromofluoromethane (S)	104	%	75-130	50		08/23/10 18:59	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	75-131	50		08/23/10 18:59	17060-07-0	
Toluene-d8 (S)	89	%	75-125	50		08/23/10 18:59	2037-26-5	
4-Bromofluorobenzene (S)	95	%	75-125	50		08/23/10 18:59	460-00-4	

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

ANALYTICAL RESULTS

Project: City of Rochester
Pace Project No.: 10136159

Sample: DPE-3 **Lab ID: 10136159005** Collected: 08/18/10 18:20 Received: 08/19/10 15:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	200	20		08/23/10 18:36	67-64-1	
Allyl chloride	ND	ug/L	80.0	20		08/23/10 18:36	107-05-1	
Benzene	ND	ug/L	20.0	20		08/23/10 18:36	71-43-2	
Bromobenzene	ND	ug/L	20.0	20		08/23/10 18:36	108-86-1	
Bromochloromethane	ND	ug/L	20.0	20		08/23/10 18:36	74-97-5	
Bromodichloromethane	ND	ug/L	20.0	20		08/23/10 18:36	75-27-4	
Bromoform	ND	ug/L	160	20		08/23/10 18:36	75-25-2	
Bromomethane	ND	ug/L	80.0	20		08/23/10 18:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	80.0	20		08/23/10 18:36	78-93-3	
n-Butylbenzene	ND	ug/L	20.0	20		08/23/10 18:36	104-51-8	
sec-Butylbenzene	ND	ug/L	20.0	20		08/23/10 18:36	135-98-8	
tert-Butylbenzene	ND	ug/L	20.0	20		08/23/10 18:36	98-06-6	
Carbon tetrachloride	ND	ug/L	80.0	20		08/23/10 18:36	56-23-5	
Chlorobenzene	ND	ug/L	20.0	20		08/23/10 18:36	108-90-7	
Chloroethane	ND	ug/L	20.0	20		08/23/10 18:36	75-00-3	
Chloroform	ND	ug/L	20.0	20		08/23/10 18:36	67-66-3	
Chloromethane	ND	ug/L	80.0	20		08/23/10 18:36	74-87-3	
2-Chlorotoluene	ND	ug/L	20.0	20		08/23/10 18:36	95-49-8	
4-Chlorotoluene	ND	ug/L	20.0	20		08/23/10 18:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	80.0	20		08/23/10 18:36	96-12-8	
Dibromochloromethane	ND	ug/L	20.0	20		08/23/10 18:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	20.0	20		08/23/10 18:36	106-93-4	
Dibromomethane	ND	ug/L	80.0	20		08/23/10 18:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	20.0	20		08/23/10 18:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	20.0	20		08/23/10 18:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	20.0	20		08/23/10 18:36	106-46-7	
Dichlorodifluoromethane	ND	ug/L	20.0	20		08/23/10 18:36	75-71-8	
1,1-Dichloroethane	ND	ug/L	20.0	20		08/23/10 18:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	20.0	20		08/23/10 18:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	20.0	20		08/23/10 18:36	75-35-4	
cis-1,2-Dichloroethene	**59.2**	ug/L	20.0	20		08/23/10 18:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	20.0	20		08/23/10 18:36	156-60-5	
Dichlorofluoromethane	ND	ug/L	20.0	20		08/23/10 18:36	75-43-4	
1,2-Dichloropropane	ND	ug/L	20.0	20		08/23/10 18:36	78-87-5	
1,3-Dichloropropane	ND	ug/L	20.0	20		08/23/10 18:36	142-28-9	
2,2-Dichloropropane	ND	ug/L	80.0	20		08/23/10 18:36	594-20-7	
1,1-Dichloropropene	ND	ug/L	20.0	20		08/23/10 18:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	80.0	20		08/23/10 18:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	80.0	20		08/23/10 18:36	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	80.0	20		08/23/10 18:36	60-29-7	
Ethylbenzene	ND	ug/L	20.0	20		08/23/10 18:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	80.0	20		08/23/10 18:36	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	20.0	20		08/23/10 18:36	98-82-8	
p-Isopropyltoluene	ND	ug/L	20.0	20		08/23/10 18:36	99-87-6	
Methylene Chloride	ND	ug/L	80.0	20		08/23/10 18:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	80.0	20		08/23/10 18:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	20.0	20		08/23/10 18:36	1634-04-4	

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

ANALYTICAL RESULTS

Project: City of Rochester
Pace Project No.: 10136159

Sample: DPE-3 **Lab ID: 10136159005** Collected: 08/18/10 18:20 Received: 08/19/10 15:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Naphthalene	ND	ug/L	80.0	20		08/23/10 18:36	91-20-3	
n-Propylbenzene	ND	ug/L	20.0	20		08/23/10 18:36	103-65-1	
Styrene	ND	ug/L	20.0	20		08/23/10 18:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	20.0	20		08/23/10 18:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	20.0	20		08/23/10 18:36	79-34-5	
Tetrachloroethene	**20400**	ug/L	250	250		08/25/10 21:42	127-18-4	
Tetrahydrofuran	ND	ug/L	200	20		08/23/10 18:36	109-99-9	
Toluene	ND	ug/L	20.0	20		08/23/10 18:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	20.0	20		08/23/10 18:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	20.0	20		08/23/10 18:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	20.0	20		08/23/10 18:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	20.0	20		08/23/10 18:36	79-00-5	
Trichloroethene	**22.8**	ug/L	20.0	20		08/23/10 18:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	20.0	20		08/23/10 18:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	20.0	20		08/23/10 18:36	96-18-4	
1,1,2-Trichlorotrifluoroethane	**2260**	ug/L	20.0	20		08/23/10 18:36	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	20.0	20		08/23/10 18:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	20.0	20		08/23/10 18:36	108-67-8	
Vinyl chloride	ND	ug/L	8.0	20		08/23/10 18:36	75-01-4	
Xylene (Total)	ND	ug/L	60.0	20		08/23/10 18:36	1330-20-7	
m&p-Xylene	ND	ug/L	40.0	20		08/23/10 18:36	1330-20-7	
o-Xylene	ND	ug/L	20.0	20		08/23/10 18:36	95-47-6	
Dibromofluoromethane (S)	110	%	75-130	20		08/23/10 18:36	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	75-131	20		08/23/10 18:36	17060-07-0	
Toluene-d8 (S)	88	%	75-125	20		08/23/10 18:36	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125	20		08/23/10 18:36	460-00-4	

Pace Analytical®
www.pacelabs.com

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

ANALYTICAL RESULTS

Project: City of Rochester
Pace Project No.: 10136159

Sample: DPE-4 **Lab ID: 10136159006** Collected: 08/18/10 18:30 Received: 08/19/10 15:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	50.0	5		08/23/10 17:51	67-64-1	
Allyl chloride	ND	ug/L	20.0	5		08/23/10 17:51	107-05-1	
Benzene	ND	ug/L	5.0	5		08/23/10 17:51	71-43-2	
Bromobenzene	ND	ug/L	5.0	5		08/23/10 17:51	108-86-1	
Bromochloromethane	ND	ug/L	5.0	5		08/23/10 17:51	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	5		08/23/10 17:51	75-27-4	
Bromoform	ND	ug/L	40.0	5		08/23/10 17:51	75-25-2	
Bromomethane	ND	ug/L	20.0	5		08/23/10 17:51	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	5		08/23/10 17:51	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	5		08/23/10 17:51	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	5		08/23/10 17:51	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	5		08/23/10 17:51	98-06-6	
Carbon tetrachloride	ND	ug/L	20.0	5		08/23/10 17:51	56-23-5	
Chlorobenzene	ND	ug/L	5.0	5		08/23/10 17:51	108-90-7	
Chloroethane	ND	ug/L	5.0	5		08/23/10 17:51	75-00-3	
Chloroform	ND	ug/L	5.0	5		08/23/10 17:51	67-66-3	
Chloromethane	ND	ug/L	20.0	5		08/23/10 17:51	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	5		08/23/10 17:51	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	5		08/23/10 17:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	20.0	5		08/23/10 17:51	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	5		08/23/10 17:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	5		08/23/10 17:51	106-93-4	
Dibromomethane	ND	ug/L	20.0	5		08/23/10 17:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	5		08/23/10 17:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	5		08/23/10 17:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	5		08/23/10 17:51	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	5		08/23/10 17:51	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	5		08/23/10 17:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	5		08/23/10 17:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	5		08/23/10 17:51	75-35-4	
cis-1,2-Dichloroethene	**20.7**	ug/L	5.0	5		08/23/10 17:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	5		08/23/10 17:51	156-60-5	
Dichlorofluoromethane	ND	ug/L	5.0	5		08/23/10 17:51	75-43-4	
1,2-Dichloropropane	ND	ug/L	5.0	5		08/23/10 17:51	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	5		08/23/10 17:51	142-28-9	
2,2-Dichloropropane	ND	ug/L	20.0	5		08/23/10 17:51	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	5		08/23/10 17:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	20.0	5		08/23/10 17:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	20.0	5		08/23/10 17:51	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	20.0	5		08/23/10 17:51	60-29-7	
Ethylbenzene	ND	ug/L	5.0	5		08/23/10 17:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	20.0	5		08/23/10 17:51	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	5		08/23/10 17:51	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	5		08/23/10 17:51	99-87-6	
Methylene Chloride	ND	ug/L	20.0	5		08/23/10 17:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	20.0	5		08/23/10 17:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	5		08/23/10 17:51	1634-04-4	

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

ANALYTICAL RESULTS

Project: City of Rochester
Pace Project No.: 10136159

Sample: DPE-4 **Lab ID: 10136159006** Collected: 08/18/10 18:30 Received: 08/19/10 15:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Naphthalene	ND	ug/L	20.0	5		08/23/10 17:51	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	5		08/23/10 17:51	103-65-1	
Styrene	ND	ug/L	5.0	5		08/23/10 17:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	5		08/23/10 17:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		08/23/10 17:51	79-34-5	
Tetrachloroethene	**2600**	ug/L	50.0	50		08/25/10 20:58	127-18-4	
Tetrahydrofuran	ND	ug/L	50.0	5		08/23/10 17:51	109-99-9	
Toluene	ND	ug/L	5.0	5		08/23/10 17:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	5		08/23/10 17:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	5		08/23/10 17:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	5		08/23/10 17:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	5		08/23/10 17:51	79-00-5	
Trichloroethene	**7.1**	ug/L	5.0	5		08/23/10 17:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	5		08/23/10 17:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	5		08/23/10 17:51	96-18-4	
1,1,2-Trichlorotrifluoroethane	**181**	ug/L	5.0	5		08/23/10 17:51	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	5		08/23/10 17:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	5		08/23/10 17:51	108-67-8	
Vinyl chloride	ND	ug/L	2.0	5		08/23/10 17:51	75-01-4	
Xylene (Total)	ND	ug/L	15.0	5		08/23/10 17:51	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	5		08/23/10 17:51	1330-20-7	
o-Xylene	ND	ug/L	5.0	5		08/23/10 17:51	95-47-6	
Dibromofluoromethane (S)	107	%	75-130	5		08/23/10 17:51	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	75-131	5		08/23/10 17:51	17060-07-0	
Toluene-d8 (S)	90	%	75-125	5		08/23/10 17:51	2037-26-5	
4-Bromofluorobenzene (S)	97	%	75-125	5		08/23/10 17:51	460-00-4	

Pace Analytical®
www.pacelabs.com

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

ANALYTICAL RESULTS

Project: City of Rochester
Pace Project No.: 10136159

Sample: DPE-5 **Lab ID: 10136159007** Collected: 08/18/10 18:40 Received: 08/19/10 15:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		08/25/10 18:22	67-64-1	L3
Allyl chloride	ND	ug/L	4.0	1		08/25/10 18:22	107-05-1	
Benzene	ND	ug/L	1.0	1		08/25/10 18:22	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		08/25/10 18:22	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		08/25/10 18:22	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		08/25/10 18:22	75-27-4	
Bromoform	ND	ug/L	8.0	1		08/25/10 18:22	75-25-2	
Bromomethane	ND	ug/L	4.0	1		08/25/10 18:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		08/25/10 18:22	78-93-3	L3
n-Butylbenzene	ND	ug/L	1.0	1		08/25/10 18:22	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		08/25/10 18:22	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		08/25/10 18:22	98-06-6	
Carbon tetrachloride	ND	ug/L	4.0	1		08/25/10 18:22	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		08/25/10 18:22	108-90-7	
Chloroethane	ND	ug/L	1.0	1		08/25/10 18:22	75-00-3	
Chloroform	ND	ug/L	1.0	1		08/25/10 18:22	67-66-3	
Chloromethane	ND	ug/L	4.0	1		08/25/10 18:22	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		08/25/10 18:22	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		08/25/10 18:22	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		08/25/10 18:22	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		08/25/10 18:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		08/25/10 18:22	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		08/25/10 18:22	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		08/25/10 18:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		08/25/10 18:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		08/25/10 18:22	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		08/25/10 18:22	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		08/25/10 18:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		08/25/10 18:22	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		08/25/10 18:22	75-35-4	
cis-1,2-Dichloroethene	**1.3**	ug/L	1.0	1		08/25/10 18:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		08/25/10 18:22	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		08/25/10 18:22	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		08/25/10 18:22	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		08/25/10 18:22	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		08/25/10 18:22	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		08/25/10 18:22	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		08/25/10 18:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		08/25/10 18:22	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		08/25/10 18:22	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		08/25/10 18:22	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		08/25/10 18:22	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		08/25/10 18:22	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		08/25/10 18:22	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		08/25/10 18:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		08/25/10 18:22	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		08/25/10 18:22	1634-04-4	

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

ANALYTICAL RESULTS

Project: City of Rochester
Pace Project No.: 10136159

Sample: DPE-5 **Lab ID: 10136159007** Collected: 08/18/10 18:40 Received: 08/19/10 15:23 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		08/25/10 18:22	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		08/25/10 18:22	103-65-1	
Styrene	ND	ug/L	1.0	1		08/25/10 18:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		08/25/10 18:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		08/25/10 18:22	79-34-5	
Tetrachloroethene	**124**	ug/L	1.0	1		08/25/10 18:22	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		08/25/10 18:22	109-99-9	
Toluene	ND	ug/L	1.0	1		08/25/10 18:22	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		08/25/10 18:22	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		08/25/10 18:22	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		08/25/10 18:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		08/25/10 18:22	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		08/25/10 18:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		08/25/10 18:22	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		08/25/10 18:22	96-18-4	
1,1,2-Trichlorotrifluoroethane	**11.5**	ug/L	1.0	1		08/25/10 18:22	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		08/25/10 18:22	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		08/25/10 18:22	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		08/25/10 18:22	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		08/25/10 18:22	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		08/25/10 18:22	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		08/25/10 18:22	95-47-6	
Dibromofluoromethane (S)	117	%	75-130	1		08/25/10 18:22	1868-53-7	
1,2-Dichloroethane-d4 (S)	116	%	75-131	1		08/25/10 18:22	17060-07-0	
Toluene-d8 (S)	94	%	75-125	1		08/25/10 18:22	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125	1		08/25/10 18:22	460-00-4	

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

ANALYTICAL RESULTS

Project: City of Rochester
Pace Project No.: 10136159

Sample: DPE-6 **Lab ID: 10136159008** Collected: 08/18/10 18:50 Received: 08/19/10 15:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		08/23/10 11:48	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		08/23/10 11:48	107-05-1	
Benzene	ND	ug/L	1.0	1		08/23/10 11:48	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		08/23/10 11:48	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		08/23/10 11:48	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		08/23/10 11:48	75-27-4	
Bromoform	ND	ug/L	8.0	1		08/23/10 11:48	75-25-2	
Bromomethane	ND	ug/L	4.0	1		08/23/10 11:48	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		08/23/10 11:48	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		08/23/10 11:48	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		08/23/10 11:48	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		08/23/10 11:48	98-06-6	
Carbon tetrachloride	ND	ug/L	4.0	1		08/23/10 11:48	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		08/23/10 11:48	108-90-7	
Chloroethane	ND	ug/L	1.0	1		08/23/10 11:48	75-00-3	
Chloroform	**1.0**	ug/L	1.0	1		08/23/10 11:48	67-66-3	
Chloromethane	ND	ug/L	4.0	1		08/23/10 11:48	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		08/23/10 11:48	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		08/23/10 11:48	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		08/23/10 11:48	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		08/23/10 11:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		08/23/10 11:48	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		08/23/10 11:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		08/23/10 11:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		08/23/10 11:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		08/23/10 11:48	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		08/23/10 11:48	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		08/23/10 11:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		08/23/10 11:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		08/23/10 11:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		08/23/10 11:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		08/23/10 11:48	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		08/23/10 11:48	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		08/23/10 11:48	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		08/23/10 11:48	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		08/23/10 11:48	594-20-7	M1
1,1-Dichloropropene	ND	ug/L	1.0	1		08/23/10 11:48	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		08/23/10 11:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		08/23/10 11:48	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		08/23/10 11:48	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		08/23/10 11:48	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		08/23/10 11:48	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		08/23/10 11:48	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		08/23/10 11:48	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		08/23/10 11:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		08/23/10 11:48	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		08/23/10 11:48	1634-04-4	

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

ANALYTICAL RESULTS

Project: City of Rochester
Pace Project No.: 10136159

Sample: DPE-6 **Lab ID: 10136159008** Collected: 08/18/10 18:50 Received: 08/19/10 15:23 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		08/23/10 11:48	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		08/23/10 11:48	103-65-1	
Styrene	ND	ug/L	1.0	1		08/23/10 11:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		08/23/10 11:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		08/23/10 11:48	79-34-5	
Tetrachloroethene	**21.7**	ug/L	1.0	1		08/23/10 11:48	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		08/23/10 11:48	109-99-9	
Toluene	ND	ug/L	1.0	1		08/23/10 11:48	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		08/23/10 11:48	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		08/23/10 11:48	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		08/23/10 11:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		08/23/10 11:48	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		08/23/10 11:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		08/23/10 11:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		08/23/10 11:48	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		08/23/10 11:48	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		08/23/10 11:48	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		08/23/10 11:48	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		08/23/10 11:48	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		08/23/10 11:48	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		08/23/10 11:48	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		08/23/10 11:48	95-47-6	
Dibromofluoromethane (S)	104	%	75-130	1		08/23/10 11:48	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	75-131	1		08/23/10 11:48	17060-07-0	
Toluene-d8 (S)	98	%	75-125	1		08/23/10 11:48	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125	1		08/23/10 11:48	460-00-4	

Pace Analytical®
www.pacelabs.com

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

ANALYTICAL RESULTS

Project: City of Rochester
Pace Project No.: 10136159

Sample: DPE-7 **Lab ID: 10136159009** Collected: 08/18/10 19:00 Received: 08/19/10 15:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		08/23/10 12:10	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		08/23/10 12:10	107-05-1	
Benzene	ND	ug/L	1.0	1		08/23/10 12:10	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		08/23/10 12:10	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		08/23/10 12:10	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		08/23/10 12:10	75-27-4	
Bromoform	ND	ug/L	8.0	1		08/23/10 12:10	75-25-2	
Bromomethane	ND	ug/L	4.0	1		08/23/10 12:10	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		08/23/10 12:10	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		08/23/10 12:10	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		08/23/10 12:10	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		08/23/10 12:10	98-06-6	
Carbon tetrachloride	ND	ug/L	4.0	1		08/23/10 12:10	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		08/23/10 12:10	108-90-7	
Chloroethane	ND	ug/L	1.0	1		08/23/10 12:10	75-00-3	
Chloroform	**1.3**	ug/L	1.0	1		08/23/10 12:10	67-66-3	
Chloromethane	ND	ug/L	4.0	1		08/23/10 12:10	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		08/23/10 12:10	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		08/23/10 12:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		08/23/10 12:10	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		08/23/10 12:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		08/23/10 12:10	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		08/23/10 12:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		08/23/10 12:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		08/23/10 12:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		08/23/10 12:10	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		08/23/10 12:10	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		08/23/10 12:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		08/23/10 12:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		08/23/10 12:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		08/23/10 12:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		08/23/10 12:10	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		08/23/10 12:10	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		08/23/10 12:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		08/23/10 12:10	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		08/23/10 12:10	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		08/23/10 12:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		08/23/10 12:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		08/23/10 12:10	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		08/23/10 12:10	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		08/23/10 12:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		08/23/10 12:10	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		08/23/10 12:10	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		08/23/10 12:10	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		08/23/10 12:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		08/23/10 12:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		08/23/10 12:10	1634-04-4	

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

ANALYTICAL RESULTS

Project: City of Rochester
Pace Project No.: 10136159

Sample: DPE-7 **Lab ID: 10136159009** Collected: 08/18/10 19:00 Received: 08/19/10 15:23 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		08/23/10 12:10	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		08/23/10 12:10	103-65-1	
Styrene	ND	ug/L	1.0	1		08/23/10 12:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		08/23/10 12:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		08/23/10 12:10	79-34-5	
Tetrachloroethene	**189**	ug/L	1.0	1		08/23/10 12:10	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		08/23/10 12:10	109-99-9	
Toluene	ND	ug/L	1.0	1		08/23/10 12:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		08/23/10 12:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		08/23/10 12:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		08/23/10 12:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		08/23/10 12:10	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		08/23/10 12:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		08/23/10 12:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		08/23/10 12:10	96-18-4	
1,1,2-Trichlorotrifluoroethane	**11.9**	ug/L	1.0	1		08/23/10 12:10	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		08/23/10 12:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		08/23/10 12:10	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		08/23/10 12:10	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		08/23/10 12:10	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		08/23/10 12:10	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		08/23/10 12:10	95-47-6	
Dibromofluoromethane (S)	107	%	75-130	1		08/23/10 12:10	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%	75-131	1		08/23/10 12:10	17060-07-0	
Toluene-d8 (S)	92	%	75-125	1		08/23/10 12:10	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125	1		08/23/10 12:10	460-00-4	

Pace Analytical®
www.pacelabs.com

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

ANALYTICAL RESULTS

Project: City of Rochester
Pace Project No.: 10136159

Sample: DPE-8 **Lab ID: 10136159010** Collected: 08/18/10 19:10 Received: 08/19/10 15:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		08/23/10 13:19	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		08/23/10 13:19	107-05-1	
Benzene	ND	ug/L	1.0	1		08/23/10 13:19	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		08/23/10 13:19	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		08/23/10 13:19	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		08/23/10 13:19	75-27-4	
Bromoform	ND	ug/L	8.0	1		08/23/10 13:19	75-25-2	
Bromomethane	ND	ug/L	4.0	1		08/23/10 13:19	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		08/23/10 13:19	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		08/23/10 13:19	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		08/23/10 13:19	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		08/23/10 13:19	98-06-6	
Carbon tetrachloride	ND	ug/L	4.0	1		08/23/10 13:19	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		08/23/10 13:19	108-90-7	
Chloroethane	ND	ug/L	1.0	1		08/23/10 13:19	75-00-3	
Chloroform	ND	ug/L	1.0	1		08/23/10 13:19	67-66-3	
Chloromethane	ND	ug/L	4.0	1		08/23/10 13:19	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		08/23/10 13:19	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		08/23/10 13:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		08/23/10 13:19	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		08/23/10 13:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		08/23/10 13:19	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		08/23/10 13:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		08/23/10 13:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		08/23/10 13:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		08/23/10 13:19	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		08/23/10 13:19	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		08/23/10 13:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		08/23/10 13:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		08/23/10 13:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		08/23/10 13:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		08/23/10 13:19	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		08/23/10 13:19	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		08/23/10 13:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		08/23/10 13:19	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		08/23/10 13:19	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		08/23/10 13:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		08/23/10 13:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		08/23/10 13:19	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		08/23/10 13:19	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		08/23/10 13:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		08/23/10 13:19	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		08/23/10 13:19	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		08/23/10 13:19	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		08/23/10 13:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		08/23/10 13:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		08/23/10 13:19	1634-04-4	

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

ANALYTICAL RESULTS

Project: City of Rochester
Pace Project No.: 10136159

Sample: DPE-8 **Lab ID: 10136159010** Collected: 08/18/10 19:10 Received: 08/19/10 15:23 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		08/23/10 13:19	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		08/23/10 13:19	103-65-1	
Styrene	ND	ug/L	1.0	1		08/23/10 13:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		08/23/10 13:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		08/23/10 13:19	79-34-5	
Tetrachloroethene	**131**	ug/L	1.0	1		08/23/10 13:19	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		08/23/10 13:19	109-99-9	
Toluene	ND	ug/L	1.0	1		08/23/10 13:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		08/23/10 13:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		08/23/10 13:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		08/23/10 13:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		08/23/10 13:19	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		08/23/10 13:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		08/23/10 13:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		08/23/10 13:19	96-18-4	
1,1,2-Trichlorotrifluoroethane	**5.9**	ug/L	1.0	1		08/23/10 13:19	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		08/23/10 13:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		08/23/10 13:19	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		08/23/10 13:19	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		08/23/10 13:19	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		08/23/10 13:19	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		08/23/10 13:19	95-47-6	
Dibromofluoromethane (S)	102	%	75-130	1		08/23/10 13:19	1868-53-7	
1,2-Dichloroethane-d4 (S)	93	%	75-131	1		08/23/10 13:19	17060-07-0	
Toluene-d8 (S)	95	%	75-125	1		08/23/10 13:19	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125	1		08/23/10 13:19	460-00-4	

Pace Analytical®
www.pacelabs.com

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

ANALYTICAL RESULTS

Project: City of Rochester
Pace Project No.: 10136159

Sample: MW-15 **Lab ID: 10136159011** Collected: 08/18/10 14:59 Received: 08/19/10 15:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		08/23/10 13:41	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		08/23/10 13:41	107-05-1	
Benzene	ND	ug/L	1.0	1		08/23/10 13:41	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		08/23/10 13:41	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		08/23/10 13:41	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		08/23/10 13:41	75-27-4	
Bromoform	ND	ug/L	8.0	1		08/23/10 13:41	75-25-2	
Bromomethane	ND	ug/L	4.0	1		08/23/10 13:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		08/23/10 13:41	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		08/23/10 13:41	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		08/23/10 13:41	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		08/23/10 13:41	98-06-6	
Carbon tetrachloride	ND	ug/L	4.0	1		08/23/10 13:41	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		08/23/10 13:41	108-90-7	
Chloroethane	ND	ug/L	1.0	1		08/23/10 13:41	75-00-3	
Chloroform	ND	ug/L	1.0	1		08/23/10 13:41	67-66-3	
Chloromethane	ND	ug/L	4.0	1		08/23/10 13:41	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		08/23/10 13:41	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		08/23/10 13:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		08/23/10 13:41	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		08/23/10 13:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		08/23/10 13:41	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		08/23/10 13:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		08/23/10 13:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		08/23/10 13:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		08/23/10 13:41	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		08/23/10 13:41	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		08/23/10 13:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		08/23/10 13:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		08/23/10 13:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		08/23/10 13:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		08/23/10 13:41	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		08/23/10 13:41	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		08/23/10 13:41	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		08/23/10 13:41	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		08/23/10 13:41	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		08/23/10 13:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		08/23/10 13:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		08/23/10 13:41	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		08/23/10 13:41	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		08/23/10 13:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		08/23/10 13:41	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		08/23/10 13:41	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		08/23/10 13:41	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		08/23/10 13:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		08/23/10 13:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		08/23/10 13:41	1634-04-4	

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

ANALYTICAL RESULTS

Project: City of Rochester
Pace Project No.: 10136159

Sample: MW-15 **Lab ID: 10136159011** Collected: 08/18/10 14:59 Received: 08/19/10 15:23 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		08/23/10 13:41	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		08/23/10 13:41	103-65-1	
Styrene	ND	ug/L	1.0	1		08/23/10 13:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		08/23/10 13:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		08/23/10 13:41	79-34-5	
Tetrachloroethene	**1.3**	ug/L	1.0	1		08/23/10 13:41	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		08/23/10 13:41	109-99-9	
Toluene	ND	ug/L	1.0	1		08/23/10 13:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		08/23/10 13:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		08/23/10 13:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		08/23/10 13:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		08/23/10 13:41	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		08/23/10 13:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		08/23/10 13:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		08/23/10 13:41	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		08/23/10 13:41	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		08/23/10 13:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		08/23/10 13:41	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		08/23/10 13:41	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		08/23/10 13:41	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		08/23/10 13:41	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		08/23/10 13:41	95-47-6	
Dibromofluoromethane (S)	106	%	75-130	1		08/23/10 13:41	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	75-131	1		08/23/10 13:41	17060-07-0	
Toluene-d8 (S)	90	%	75-125	1		08/23/10 13:41	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125	1		08/23/10 13:41	460-00-4	

Pace Analytical®
www.pacelabs.com

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

ANALYTICAL RESULTS

Project: City of Rochester
Pace Project No.: 10136159

Sample: MW-16 **Lab ID: 10136159012** Collected: 08/18/10 16:49 Received: 08/19/10 15:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	50.0	5		08/25/10 19:29	67-64-1	L3
Allyl chloride	ND	ug/L	20.0	5		08/25/10 19:29	107-05-1	
Benzene	ND	ug/L	5.0	5		08/25/10 19:29	71-43-2	
Bromobenzene	ND	ug/L	5.0	5		08/25/10 19:29	108-86-1	
Bromochloromethane	ND	ug/L	5.0	5		08/25/10 19:29	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	5		08/25/10 19:29	75-27-4	
Bromoform	ND	ug/L	40.0	5		08/25/10 19:29	75-25-2	
Bromomethane	ND	ug/L	20.0	5		08/25/10 19:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	5		08/25/10 19:29	78-93-3	L3
n-Butylbenzene	ND	ug/L	5.0	5		08/25/10 19:29	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	5		08/25/10 19:29	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	5		08/25/10 19:29	98-06-6	
Carbon tetrachloride	ND	ug/L	20.0	5		08/25/10 19:29	56-23-5	
Chlorobenzene	ND	ug/L	5.0	5		08/25/10 19:29	108-90-7	
Chloroethane	ND	ug/L	5.0	5		08/25/10 19:29	75-00-3	
Chloroform	ND	ug/L	5.0	5		08/25/10 19:29	67-66-3	
Chloromethane	ND	ug/L	20.0	5		08/25/10 19:29	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	5		08/25/10 19:29	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	5		08/25/10 19:29	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	20.0	5		08/25/10 19:29	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	5		08/25/10 19:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	5		08/25/10 19:29	106-93-4	
Dibromomethane	ND	ug/L	20.0	5		08/25/10 19:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	5		08/25/10 19:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	5		08/25/10 19:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	5		08/25/10 19:29	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	5		08/25/10 19:29	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	5		08/25/10 19:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	5		08/25/10 19:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	5		08/25/10 19:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	5		08/25/10 19:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	5		08/25/10 19:29	156-60-5	
Dichlorofluoromethane	ND	ug/L	5.0	5		08/25/10 19:29	75-43-4	
1,2-Dichloropropane	ND	ug/L	5.0	5		08/25/10 19:29	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	5		08/25/10 19:29	142-28-9	
2,2-Dichloropropane	ND	ug/L	20.0	5		08/25/10 19:29	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	5		08/25/10 19:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	20.0	5		08/25/10 19:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	20.0	5		08/25/10 19:29	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	20.0	5		08/25/10 19:29	60-29-7	
Ethylbenzene	ND	ug/L	5.0	5		08/25/10 19:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	20.0	5		08/25/10 19:29	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	5		08/25/10 19:29	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	5		08/25/10 19:29	99-87-6	
Methylene Chloride	ND	ug/L	20.0	5		08/25/10 19:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	20.0	5		08/25/10 19:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	5		08/25/10 19:29	1634-04-4	

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

ANALYTICAL RESULTS

Project: City of Rochester
Pace Project No.: 10136159

Sample: MW-16 **Lab ID: 10136159012** Collected: 08/18/10 16:49 Received: 08/19/10 15:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Naphthalene	ND	ug/L	20.0	5		08/25/10 19:29	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	5		08/25/10 19:29	103-65-1	
Styrene	ND	ug/L	5.0	5		08/25/10 19:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	5		08/25/10 19:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		08/25/10 19:29	79-34-5	
Tetrachloroethene	**696**	ug/L	5.0	5		08/25/10 19:29	127-18-4	
Tetrahydrofuran	ND	ug/L	50.0	5		08/25/10 19:29	109-99-9	
Toluene	ND	ug/L	5.0	5		08/25/10 19:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	5		08/25/10 19:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	5		08/25/10 19:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	5		08/25/10 19:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	5		08/25/10 19:29	79-00-5	
Trichloroethene	ND	ug/L	5.0	5		08/25/10 19:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	5		08/25/10 19:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	5		08/25/10 19:29	96-18-4	
1,1,2-Trichlorotrifluoroethane	**63.8**	ug/L	5.0	5		08/25/10 19:29	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	5		08/25/10 19:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	5		08/25/10 19:29	108-67-8	
Vinyl chloride	ND	ug/L	2.0	5		08/25/10 19:29	75-01-4	
Xylene (Total)	ND	ug/L	15.0	5		08/25/10 19:29	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	5		08/25/10 19:29	1330-20-7	
o-Xylene	ND	ug/L	5.0	5		08/25/10 19:29	95-47-6	
Dibromofluoromethane (S)	118	%	75-130	5		08/25/10 19:29	1868-53-7	
1,2-Dichloroethane-d4 (S)	121	%	75-131	5		08/25/10 19:29	17060-07-0	
Toluene-d8 (S)	92	%	75-125	5		08/25/10 19:29	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125	5		08/25/10 19:29	460-00-4	

Pace Analytical®
www.pacelabs.com

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

ANALYTICAL RESULTS

Project: City of Rochester
Pace Project No.: 10136159

Sample: MW-14 **Lab ID: 10136159013** Collected: 08/18/10 14:40 Received: 08/19/10 15:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		08/23/10 14:04	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		08/23/10 14:04	107-05-1	
Benzene	ND	ug/L	1.0	1		08/23/10 14:04	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		08/23/10 14:04	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		08/23/10 14:04	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		08/23/10 14:04	75-27-4	
Bromoform	ND	ug/L	8.0	1		08/23/10 14:04	75-25-2	
Bromomethane	ND	ug/L	4.0	1		08/23/10 14:04	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		08/23/10 14:04	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		08/23/10 14:04	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		08/23/10 14:04	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		08/23/10 14:04	98-06-6	
Carbon tetrachloride	ND	ug/L	4.0	1		08/23/10 14:04	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		08/23/10 14:04	108-90-7	
Chloroethane	ND	ug/L	1.0	1		08/23/10 14:04	75-00-3	
Chloroform	**3.0**	ug/L	1.0	1		08/23/10 14:04	67-66-3	
Chloromethane	ND	ug/L	4.0	1		08/23/10 14:04	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		08/23/10 14:04	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		08/23/10 14:04	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		08/23/10 14:04	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		08/23/10 14:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		08/23/10 14:04	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		08/23/10 14:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		08/23/10 14:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		08/23/10 14:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		08/23/10 14:04	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		08/23/10 14:04	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		08/23/10 14:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		08/23/10 14:04	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		08/23/10 14:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		08/23/10 14:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		08/23/10 14:04	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		08/23/10 14:04	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		08/23/10 14:04	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		08/23/10 14:04	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		08/23/10 14:04	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		08/23/10 14:04	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		08/23/10 14:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		08/23/10 14:04	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		08/23/10 14:04	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		08/23/10 14:04	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		08/23/10 14:04	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		08/23/10 14:04	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		08/23/10 14:04	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		08/23/10 14:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		08/23/10 14:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		08/23/10 14:04	1634-04-4	

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

ANALYTICAL RESULTS

Project: City of Rochester
Pace Project No.: 10136159

Sample: MW-14 **Lab ID: 10136159013** Collected: 08/18/10 14:40 Received: 08/19/10 15:23 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		08/23/10 14:04	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		08/23/10 14:04	103-65-1	
Styrene	ND	ug/L	1.0	1		08/23/10 14:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		08/23/10 14:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		08/23/10 14:04	79-34-5	
Tetrachloroethene	**1.8**	ug/L	1.0	1		08/23/10 14:04	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		08/23/10 14:04	109-99-9	
Toluene	ND	ug/L	1.0	1		08/23/10 14:04	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		08/23/10 14:04	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		08/23/10 14:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		08/23/10 14:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		08/23/10 14:04	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		08/23/10 14:04	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		08/23/10 14:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		08/23/10 14:04	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		08/23/10 14:04	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		08/23/10 14:04	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		08/23/10 14:04	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		08/23/10 14:04	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		08/23/10 14:04	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		08/23/10 14:04	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		08/23/10 14:04	95-47-6	
Dibromofluoromethane (S)	106	%	75-130	1		08/23/10 14:04	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	75-131	1		08/23/10 14:04	17060-07-0	
Toluene-d8 (S)	91	%	75-125	1		08/23/10 14:04	2037-26-5	
4-Bromofluorobenzene (S)	96	%	75-125	1		08/23/10 14:04	460-00-4	

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

ANALYTICAL RESULTS

Project: City of Rochester
Pace Project No.: 10136159

Sample: MW-19 **Lab ID: 10136159014** Collected: 08/18/10 14:00 Received: 08/19/10 15:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		08/23/10 14:27	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		08/23/10 14:27	107-05-1	
Benzene	ND	ug/L	1.0	1		08/23/10 14:27	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		08/23/10 14:27	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		08/23/10 14:27	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		08/23/10 14:27	75-27-4	
Bromoform	ND	ug/L	8.0	1		08/23/10 14:27	75-25-2	
Bromomethane	ND	ug/L	4.0	1		08/23/10 14:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		08/23/10 14:27	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		08/23/10 14:27	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		08/23/10 14:27	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		08/23/10 14:27	98-06-6	
Carbon tetrachloride	ND	ug/L	4.0	1		08/23/10 14:27	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		08/23/10 14:27	108-90-7	
Chloroethane	ND	ug/L	1.0	1		08/23/10 14:27	75-00-3	
Chloroform	ND	ug/L	1.0	1		08/23/10 14:27	67-66-3	
Chloromethane	ND	ug/L	4.0	1		08/23/10 14:27	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		08/23/10 14:27	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		08/23/10 14:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		08/23/10 14:27	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		08/23/10 14:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		08/23/10 14:27	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		08/23/10 14:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		08/23/10 14:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		08/23/10 14:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		08/23/10 14:27	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		08/23/10 14:27	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		08/23/10 14:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		08/23/10 14:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		08/23/10 14:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		08/23/10 14:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		08/23/10 14:27	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		08/23/10 14:27	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		08/23/10 14:27	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		08/23/10 14:27	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		08/23/10 14:27	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		08/23/10 14:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		08/23/10 14:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		08/23/10 14:27	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		08/23/10 14:27	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		08/23/10 14:27	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		08/23/10 14:27	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		08/23/10 14:27	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		08/23/10 14:27	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		08/23/10 14:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		08/23/10 14:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		08/23/10 14:27	1634-04-4	

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

ANALYTICAL RESULTS

Project: City of Rochester
Pace Project No.: 10136159

Sample: MW-19 **Lab ID: 10136159014** Collected: 08/18/10 14:00 Received: 08/19/10 15:23 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		08/23/10 14:27	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		08/23/10 14:27	103-65-1	
Styrene	ND	ug/L	1.0	1		08/23/10 14:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		08/23/10 14:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		08/23/10 14:27	79-34-5	
Tetrachloroethene	**4.2**	ug/L	1.0	1		08/23/10 14:27	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		08/23/10 14:27	109-99-9	
Toluene	ND	ug/L	1.0	1		08/23/10 14:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		08/23/10 14:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		08/23/10 14:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		08/23/10 14:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		08/23/10 14:27	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		08/23/10 14:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		08/23/10 14:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		08/23/10 14:27	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		08/23/10 14:27	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		08/23/10 14:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		08/23/10 14:27	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		08/23/10 14:27	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		08/23/10 14:27	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		08/23/10 14:27	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		08/23/10 14:27	95-47-6	
Dibromofluoromethane (S)	108	%	75-130	1		08/23/10 14:27	1868-53-7	
1,2-Dichloroethane-d4 (S)	96	%	75-131	1		08/23/10 14:27	17060-07-0	
Toluene-d8 (S)	94	%	75-125	1		08/23/10 14:27	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125	1		08/23/10 14:27	460-00-4	

Pace Analytical®
www.pacelabs.com

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

ANALYTICAL RESULTS

Project: City of Rochester
Pace Project No.: 10136159

Sample: MW-20 **Lab ID: 10136159015** Collected: 08/18/10 16:20 Received: 08/19/10 15:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		08/25/10 18:44	67-64-1	L3
Allyl chloride	ND	ug/L	4.0	1		08/25/10 18:44	107-05-1	
Benzene	ND	ug/L	1.0	1		08/25/10 18:44	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		08/25/10 18:44	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		08/25/10 18:44	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		08/25/10 18:44	75-27-4	
Bromoform	ND	ug/L	8.0	1		08/25/10 18:44	75-25-2	
Bromomethane	ND	ug/L	4.0	1		08/25/10 18:44	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		08/25/10 18:44	78-93-3	L3
n-Butylbenzene	ND	ug/L	1.0	1		08/25/10 18:44	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		08/25/10 18:44	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		08/25/10 18:44	98-06-6	
Carbon tetrachloride	ND	ug/L	4.0	1		08/25/10 18:44	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		08/25/10 18:44	108-90-7	
Chloroethane	ND	ug/L	1.0	1		08/25/10 18:44	75-00-3	
Chloroform	ND	ug/L	1.0	1		08/25/10 18:44	67-66-3	
Chloromethane	ND	ug/L	4.0	1		08/25/10 18:44	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		08/25/10 18:44	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		08/25/10 18:44	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		08/25/10 18:44	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		08/25/10 18:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		08/25/10 18:44	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		08/25/10 18:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		08/25/10 18:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		08/25/10 18:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		08/25/10 18:44	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		08/25/10 18:44	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		08/25/10 18:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		08/25/10 18:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		08/25/10 18:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		08/25/10 18:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		08/25/10 18:44	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		08/25/10 18:44	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		08/25/10 18:44	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		08/25/10 18:44	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		08/25/10 18:44	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		08/25/10 18:44	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		08/25/10 18:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		08/25/10 18:44	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		08/25/10 18:44	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		08/25/10 18:44	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		08/25/10 18:44	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		08/25/10 18:44	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		08/25/10 18:44	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		08/25/10 18:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		08/25/10 18:44	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		08/25/10 18:44	1634-04-4	

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

ANALYTICAL RESULTS

Project: City of Rochester
Pace Project No.: 10136159

Sample: MW-20 **Lab ID: 10136159015** Collected: 08/18/10 16:20 Received: 08/19/10 15:23 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		08/25/10 18:44	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		08/25/10 18:44	103-65-1	
Styrene	ND	ug/L	1.0	1		08/25/10 18:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		08/25/10 18:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		08/25/10 18:44	79-34-5	
Tetrachloroethene	**74.7**	ug/L	1.0	1		08/25/10 18:44	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		08/25/10 18:44	109-99-9	
Toluene	ND	ug/L	1.0	1		08/25/10 18:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		08/25/10 18:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		08/25/10 18:44	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		08/25/10 18:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		08/25/10 18:44	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		08/25/10 18:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		08/25/10 18:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		08/25/10 18:44	96-18-4	
1,1,2-Trichlorotrifluoroethane	**2.8**	ug/L	1.0	1		08/25/10 18:44	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		08/25/10 18:44	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		08/25/10 18:44	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		08/25/10 18:44	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		08/25/10 18:44	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		08/25/10 18:44	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		08/25/10 18:44	95-47-6	
Dibromofluoromethane (S)	119	%	75-130	1		08/25/10 18:44	1868-53-7	
1,2-Dichloroethane-d4 (S)	124	%	75-131	1		08/25/10 18:44	17060-07-0	
Toluene-d8 (S)	91	%	75-125	1		08/25/10 18:44	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125	1		08/25/10 18:44	460-00-4	

Pace Analytical®
www.pacelabs.com

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

ANALYTICAL RESULTS

Project: City of Rochester
Pace Project No.: 10136159

Sample: Trip Blank **Lab ID: 10136159016** Collected: Received: 08/19/10 15:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		08/23/10 11:25	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		08/23/10 11:25	107-05-1	
Benzene	ND	ug/L	1.0	1		08/23/10 11:25	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		08/23/10 11:25	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		08/23/10 11:25	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		08/23/10 11:25	75-27-4	
Bromoform	ND	ug/L	8.0	1		08/23/10 11:25	75-25-2	
Bromomethane	ND	ug/L	4.0	1		08/23/10 11:25	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		08/23/10 11:25	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		08/23/10 11:25	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		08/23/10 11:25	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		08/23/10 11:25	98-06-6	
Carbon tetrachloride	ND	ug/L	4.0	1		08/23/10 11:25	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		08/23/10 11:25	108-90-7	
Chloroethane	ND	ug/L	1.0	1		08/23/10 11:25	75-00-3	
Chloroform	ND	ug/L	1.0	1		08/23/10 11:25	67-66-3	
Chloromethane	ND	ug/L	4.0	1		08/23/10 11:25	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		08/23/10 11:25	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		08/23/10 11:25	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		08/23/10 11:25	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		08/23/10 11:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		08/23/10 11:25	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		08/23/10 11:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		08/23/10 11:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		08/23/10 11:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		08/23/10 11:25	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		08/23/10 11:25	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		08/23/10 11:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		08/23/10 11:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		08/23/10 11:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		08/23/10 11:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		08/23/10 11:25	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		08/23/10 11:25	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		08/23/10 11:25	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		08/23/10 11:25	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		08/23/10 11:25	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		08/23/10 11:25	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		08/23/10 11:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		08/23/10 11:25	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		08/23/10 11:25	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		08/23/10 11:25	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		08/23/10 11:25	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		08/23/10 11:25	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		08/23/10 11:25	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		08/23/10 11:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		08/23/10 11:25	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		08/23/10 11:25	1634-04-4	

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

ANALYTICAL RESULTS

Project: City of Rochester
Pace Project No.: 10136159

Sample: Trip Blank **Lab ID: 10136159016** Collected: Received: 08/19/10 15:23 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		08/23/10 11:25	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		08/23/10 11:25	103-65-1	
Styrene	ND	ug/L	1.0	1		08/23/10 11:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		08/23/10 11:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		08/23/10 11:25	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		08/23/10 11:25	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		08/23/10 11:25	109-99-9	
Toluene	ND	ug/L	1.0	1		08/23/10 11:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		08/23/10 11:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		08/23/10 11:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		08/23/10 11:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		08/23/10 11:25	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		08/23/10 11:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		08/23/10 11:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		08/23/10 11:25	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		08/23/10 11:25	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		08/23/10 11:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		08/23/10 11:25	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		08/23/10 11:25	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		08/23/10 11:25	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		08/23/10 11:25	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		08/23/10 11:25	95-47-6	
Dibromofluoromethane (S)	101	%	75-130	1		08/23/10 11:25	1868-53-7	
1,2-Dichloroethane-d4 (S)	91	%	75-131	1		08/23/10 11:25	17060-07-0	
Toluene-d8 (S)	95	%	75-125	1		08/23/10 11:25	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125	1		08/23/10 11:25	460-00-4	

Pace Analytical®
www.pacelabs.com

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

QUALITY CONTROL DATA

Project: City of Rochester
Pace Project No.: 10136159

QC Batch: MSV/15182
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 10136159002, 10136159003

METHOD BLANK: 840796
Matrix: Water
Associated Lab Samples: 10136159002, 10136159003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	08/20/10 14:26	
1,1,1-Trichloroethane	ug/L	ND	1.0	08/20/10 14:26	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	08/20/10 14:26	
1,1,2-Trichloroethane	ug/L	ND	1.0	08/20/10 14:26	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	08/20/10 14:26	
1,1-Dichloroethane	ug/L	ND	1.0	08/20/10 14:26	
1,1-Dichloroethene	ug/L	ND	1.0	08/20/10 14:26	
1,1-Dichloropropene	ug/L	ND	1.0	08/20/10 14:26	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	08/20/10 14:26	
1,2,3-Trichloropropane	ug/L	ND	1.0	08/20/10 14:26	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	08/20/10 14:26	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	08/20/10 14:26	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	08/20/10 14:26	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	08/20/10 14:26	
1,2-Dichlorobenzene	ug/L	ND	1.0	08/20/10 14:26	
1,2-Dichloroethane	ug/L	ND	1.0	08/20/10 14:26	
1,2-Dichloropropane	ug/L	ND	1.0	08/20/10 14:26	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	08/20/10 14:26	
1,3-Dichlorobenzene	ug/L	ND	1.0	08/20/10 14:26	
1,3-Dichloropropane	ug/L	ND	1.0	08/20/10 14:26	
1,4-Dichlorobenzene	ug/L	ND	1.0	08/20/10 14:26	
2,2-Dichloropropane	ug/L	ND	4.0	08/20/10 14:26	
2-Butanone (MEK)	ug/L	ND	4.0	08/20/10 14:26	
2-Chlorotoluene	ug/L	ND	1.0	08/20/10 14:26	
4-Chlorotoluene	ug/L	ND	1.0	08/20/10 14:26	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	08/20/10 14:26	
Acetone	ug/L	ND	10.0	08/20/10 14:26	
Allyl chloride	ug/L	ND	4.0	08/20/10 14:26	
Benzene	ug/L	ND	1.0	08/20/10 14:26	
Bromobenzene	ug/L	ND	1.0	08/20/10 14:26	
Bromochloromethane	ug/L	ND	1.0	08/20/10 14:26	
Bromodichloromethane	ug/L	ND	1.0	08/20/10 14:26	
Bromoform	ug/L	ND	8.0	08/20/10 14:26	
Bromomethane	ug/L	ND	4.0	08/20/10 14:26	
Carbon tetrachloride	ug/L	ND	4.0	08/20/10 14:26	
Chlorobenzene	ug/L	ND	1.0	08/20/10 14:26	
Chloroethane	ug/L	ND	1.0	08/20/10 14:26	
Chloroform	ug/L	ND	1.0	08/20/10 14:26	
Chloromethane	ug/L	ND	4.0	08/20/10 14:26	
cis-1,2-Dichloroethene	ug/L	ND	1.0	08/20/10 14:26	
cis-1,3-Dichloropropene	ug/L	ND	4.0	08/20/10 14:26	
Dibromochloromethane	ug/L	ND	1.0	08/20/10 14:26	
Dibromomethane	ug/L	ND	4.0	08/20/10 14:26	

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

QUALITY CONTROL DATA

Project: City of Rochester
Pace Project No.: 10136159

METHOD BLANK: 840796 Matrix: Water

Associated Lab Samples: 10136159002, 10136159003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	08/20/10 14:26	
Dichlorofluoromethane	ug/L	ND	1.0	08/20/10 14:26	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	08/20/10 14:26	
Ethylbenzene	ug/L	ND	1.0	08/20/10 14:26	
Hexachloro-1,3-butadiene	ug/L	ND	4.0	08/20/10 14:26	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	08/20/10 14:26	
m&p-Xylene	ug/L	ND	2.0	08/20/10 14:26	
Methyl-tert-butyl ether	ug/L	ND	1.0	08/20/10 14:26	
Methylene Chloride	ug/L	ND	4.0	08/20/10 14:26	
n-Butylbenzene	ug/L	ND	1.0	08/20/10 14:26	
n-Propylbenzene	ug/L	ND	1.0	08/20/10 14:26	
Naphthalene	ug/L	ND	4.0	08/20/10 14:26	
o-Xylene	ug/L	ND	1.0	08/20/10 14:26	
p-Isopropyltoluene	ug/L	ND	1.0	08/20/10 14:26	
sec-Butylbenzene	ug/L	ND	1.0	08/20/10 14:26	
Styrene	ug/L	ND	1.0	08/20/10 14:26	
tert-Butylbenzene	ug/L	ND	1.0	08/20/10 14:26	
Tetrachloroethene	ug/L	ND	1.0	08/20/10 14:26	
Tetrahydrofuran	ug/L	ND	10.0	08/20/10 14:26	
Toluene	ug/L	ND	1.0	08/20/10 14:26	
trans-1,2-Dichloroethene	ug/L	ND	1.0	08/20/10 14:26	
trans-1,3-Dichloropropene	ug/L	ND	4.0	08/20/10 14:26	
Trichloroethene	ug/L	ND	1.0	08/20/10 14:26	
Trichlorofluoromethane	ug/L	ND	1.0	08/20/10 14:26	
Vinyl chloride	ug/L	ND	0.40	08/20/10 14:26	
Xylene (Total)	ug/L	ND	3.0	08/20/10 14:26	
1,2-Dichloroethane-d4 (S)	%	94	75-131	08/20/10 14:26	
4-Bromofluorobenzene (S)	%	104	75-125	08/20/10 14:26	
Dibromofluoromethane (S)	%	107	75-130	08/20/10 14:26	
Toluene-d8 (S)	%	98	75-125	08/20/10 14:26	

LABORATORY CONTROL SAMPLE: 840797

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.0	100	75-125	
1,1,1-Trichloroethane	ug/L	50	48.9	98	68-130	
1,1,2,2-Tetrachloroethane	ug/L	50	48.1	96	71-125	
1,1,2-Trichloroethane	ug/L	50	52.0	104	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	49.5	99	60-141	
1,1-Dichloroethane	ug/L	50	51.3	103	75-125	
1,1-Dichloroethene	ug/L	50	54.4	109	69-125	
1,1-Dichloropropene	ug/L	50	55.2	110	69-125	
1,2,3-Trichlorobenzene	ug/L	50	55.3	111	72-129	
1,2,3-Trichloropropane	ug/L	50	45.3	91	69-127	
1,2,4-Trichlorobenzene	ug/L	50	53.9	108	75-125	

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

QUALITY CONTROL DATA

Project: City of Rochester
Pace Project No.: 10136159

LABORATORY CONTROL SAMPLE: 840797

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	50	55.5	111	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	46.1	92	64-135	
1,2-Dibromoethane (EDB)	ug/L	50	51.2	102	75-126	
1,2-Dichlorobenzene	ug/L	50	51.0	102	75-125	
1,2-Dichloroethane	ug/L	50	47.2	94	75-125	
1,2-Dichloropropane	ug/L	50	52.2	104	75-125	
1,3,5-Trimethylbenzene	ug/L	50	57.3	115	75-125	
1,3-Dichlorobenzene	ug/L	50	51.9	104	75-125	
1,3-Dichloropropane	ug/L	50	52.6	105	75-125	
1,4-Dichlorobenzene	ug/L	50	49.5	99	75-125	
2,2-Dichloropropane	ug/L	50	51.6	103	54-149	
2-Butanone (MEK)	ug/L	50	50.9	102	55-140	
2-Chlorotoluene	ug/L	50	54.1	108	75-125	
4-Chlorotoluene	ug/L	50	54.5	109	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	50	48.5	97	65-132	
Acetone	ug/L	125	102	81	36-126	
Allyl chloride	ug/L	50	57.2	114	64-137	
Benzene	ug/L	50	55.1	110	75-125	
Bromobenzene	ug/L	50	52.4	105	75-125	
Bromochloromethane	ug/L	50	51.9	104	75-125	
Bromodichloromethane	ug/L	50	47.1	94	75-125	
Bromoform	ug/L	50	50.0	100	72-131	
Bromomethane	ug/L	50	44.1	88	30-150	
Carbon tetrachloride	ug/L	50	48.4	97	61-140	
Chlorobenzene	ug/L	50	52.6	105	75-125	
Chloroethane	ug/L	50	52.9	106	56-137	
Chloroform	ug/L	50	50.9	102	75-125	
Chloromethane	ug/L	50	51.8	104	62-128	
cis-1,2-Dichloroethene	ug/L	50	56.5	113	75-125	
cis-1,3-Dichloropropene	ug/L	50	53.1	106	75-125	
Dibromochloromethane	ug/L	50	51.1	102	75-125	
Dibromomethane	ug/L	50	48.6	97	75-125	
Dichlorodifluoromethane	ug/L	50	45.6	91	54-141	
Dichlorofluoromethane	ug/L	50	50.7	101	70-128	
Diethyl ether (Ethyl ether)	ug/L	50	50.0	100	75-125	
Ethylbenzene	ug/L	50	55.1	110	75-125	
Hexachloro-1,3-butadiene	ug/L	25	26.4	106	68-133	
Isopropylbenzene (Cumene)	ug/L	50	58.4	117	75-125	
m&p-Xylene	ug/L	100	117	117	75-125	
Methyl-tert-butyl ether	ug/L	50	48.3	97	73-132	
Methylene Chloride	ug/L	50	53.5	107	74-125	
n-Butylbenzene	ug/L	50	51.8	104	75-125	
n-Propylbenzene	ug/L	50	55.3	111	75-125	
Naphthalene	ug/L	50	46.6	93	69-130	
o-Xylene	ug/L	50	57.3	115	75-125	
p-Isopropyltoluene	ug/L	50	52.0	104	75-125	
sec-Butylbenzene	ug/L	50	56.2	112	75-125	
Styrene	ug/L	50	52.7	105	75-125	

Pace Analytical®
www.pacelabs.com

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

QUALITY CONTROL DATA

Project: City of Rochester
Pace Project No.: 10136159

LABORATORY CONTROL SAMPLE: 840797

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	56.4	113	73-125	
Tetrachloroethene	ug/L	50	54.6	109	72-125	
Tetrahydrofuran	ug/L	500	513	103	64-135	
Toluene	ug/L	50	55.5	111	75-125	
trans-1,2-Dichloroethene	ug/L	50	54.3	109	70-125	
trans-1,3-Dichloropropene	ug/L	50	54.0	108	75-125	
Trichloroethene	ug/L	50	56.5	113	75-125	
Trichlorofluoromethane	ug/L	50	46.8	94	68-132	
Vinyl chloride	ug/L	50	56.4	113	62-132	
Xylene (Total)	ug/L	150	174	116	75-125	
1,2-Dichloroethane-d4 (S)	%			85	75-131	
4-Bromofluorobenzene (S)	%			93	75-125	
Dibromofluoromethane (S)	%			93	75-130	
Toluene-d8 (S)	%			103	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 840798 840799

Parameter	Units	10136132003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	48.4	50.1	97	100	72-133	3	30	
1,1,1-Trichloroethane	ug/L	ND	50	50	49.8	51.1	100	102	65-150	3	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	47.7	49.3	95	99	63-138	3	30	
1,1,2-Trichloroethane	ug/L	ND	50	50	51.0	52.0	102	104	68-131	2	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	50	58.4	58.6	117	117	47-150	.2	30	
1,1-Dichloroethane	ug/L	ND	50	50	49.9	52.0	100	104	71-131	4	30	
1,1-Dichloroethene	ug/L	ND	50	50	56.6	57.7	113	115	66-145	2	30	
1,1-Dichloropropene	ug/L	ND	50	50	56.9	59.8	114	120	62-144	5	30	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	54.6	58.3	109	117	66-139	7	30	
1,2,3-Trichloropropane	ug/L	ND	50	50	45.0	45.0	90	90	61-139	.004	30	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	53.3	57.4	107	115	68-139	7	30	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	56.1	59.3	112	119	69-130	6	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	46.1	48.3	92	97	53-150	5	30	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	48.9	50.1	98	100	69-133	2	30	
1,2-Dichlorobenzene	ug/L	ND	50	50	51.9	54.3	104	109	72-131	5	30	
1,2-Dichloroethane	ug/L	ND	50	50	45.6	46.4	91	93	62-148	2	30	
1,2-Dichloropropane	ug/L	ND	50	50	53.0	53.2	106	106	74-128	.4	30	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	57.5	61.1	115	122	65-134	6	30	
1,3-Dichlorobenzene	ug/L	ND	50	50	51.3	53.9	103	108	73-130	5	30	
1,3-Dichloropropane	ug/L	ND	50	50	50.0	52.2	100	104	71-130	4	30	
1,4-Dichlorobenzene	ug/L	ND	50	50	49.2	52.4	98	105	71-132	6	30	
2,2-Dichloropropane	ug/L	ND	50	50	53.6	53.9	107	108	50-150	.6	30	
2-Butanone (MEK)	ug/L	ND	50	50	40.3	42.2	81	84	46-140	5	30	
2-Chlorotoluene	ug/L	ND	50	50	53.2	56.8	106	114	74-131	6	30	
4-Chlorotoluene	ug/L	ND	50	50	54.8	57.2	110	114	70-139	4	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	50	46.9	48.7	94	97	59-145	4	30	
Acetone	ug/L	ND	125	125	70.1	83.9	56	67	36-126	18	30	
Allyl chloride	ug/L	ND	50	50	57.5	58.2	115	116	50-148	1	30	

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

QUALITY CONTROL DATA

Project: City of Rochester
Pace Project No.: 10136159

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 840798 840799

Parameter	Units	10136132003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	50	50	54.3	56.7	109	113	70-133	4	30	
Bromobenzene	ug/L	ND	50	50	52.1	53.9	104	108	72-129	4	30	
Bromochloromethane	ug/L	ND	50	50	49.6	51.5	99	103	69-137	4	30	
Bromodichloromethane	ug/L	ND	50	50	47.6	47.9	95	96	73-134	.6	30	
Bromoform	ug/L	ND	50	50	48.4	50.2	97	100	56-144	4	30	
Bromomethane	ug/L	ND	50	50	45.9	48.6	92	97	30-150	6	30	
Carbon tetrachloride	ug/L	ND	50	50	48.4	49.7	97	99	55-150	3	30	
Chlorobenzene	ug/L	ND	50	50	51.4	54.0	103	108	71-132	5	30	
Chloroethane	ug/L	ND	50	50	56.6	52.6	113	105	50-150	7	30	
Chloroform	ug/L	ND	50	50	50.3	50.7	101	101	68-138	.7	30	
Chloromethane	ug/L	ND	50	50	55.0	54.2	110	108	61-148	1	30	
cis-1,2-Dichloroethene	ug/L	ND	50	50	55.7	57.3	111	115	68-135	3	30	
cis-1,3-Dichloropropene	ug/L	ND	50	50	49.8	50.2	100	100	70-134	.7	30	
Dibromochloromethane	ug/L	ND	50	50	48.4	51.0	97	102	67-135	5	30	
Dibromomethane	ug/L	ND	50	50	48.2	49.3	96	99	74-130	2	30	
Dichlorodifluoromethane	ug/L	ND	50	50	55.3	52.5	111	105	44-150	5	30	
Dichlorofluoromethane	ug/L	ND	50	50	51.1	51.3	102	103	67-145	.4	30	
Diethyl ether (Ethyl ether)	ug/L	ND	50	50	49.0	51.3	98	103	69-132	5	30	
Ethylbenzene	ug/L	ND	50	50	56.4	57.9	113	116	66-133	3	30	
Hexachloro-1,3-butadiene	ug/L	ND	25	25	28.5	28.9	114	116	59-150	2	30	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	58.0	60.0	116	120	71-140	3	30	
m&p-Xylene	ug/L	ND	100	100	114	117	114	117	63-130	3	30	
Methyl-tert-butyl ether	ug/L	ND	50	50	45.7	47.8	91	96	62-143	4	30	
Methylene Chloride	ug/L	ND	50	50	53.2	51.6	106	103	69-126	3	30	
n-Butylbenzene	ug/L	ND	50	50	53.4	56.6	107	113	73-140	6	30	
n-Propylbenzene	ug/L	ND	50	50	57.4	60.1	115	120	71-136	5	30	
Naphthalene	ug/L	ND	50	50	46.4	49.0	93	98	55-147	5	30	
o-Xylene	ug/L	ND	50	50	56.9	59.1	114	118	66-132	4	30	
p-Isopropyltoluene	ug/L	ND	50	50	53.4	57.4	107	115	69-138	7	30	
sec-Butylbenzene	ug/L	ND	50	50	58.5	62.0	117	124	73-140	6	30	
Styrene	ug/L	ND	50	50	52.0	54.6	104	109	68-138	5	30	
tert-Butylbenzene	ug/L	ND	50	50	56.9	60.7	114	121	70-138	7	30	
Tetrachloroethene	ug/L	ND	50	50	54.1	54.2	108	108	70-138	.3	30	
Tetrahydrofuran	ug/L	ND	500	500	479	510	96	102	54-148	6	30	
Toluene	ug/L	ND	50	50	55.6	56.6	111	113	65-127	2	30	
trans-1,2-Dichloroethene	ug/L	ND	50	50	52.1	55.3	104	111	67-131	6	30	
trans-1,3-Dichloropropene	ug/L	ND	50	50	52.4	53.1	105	106	64-138	1	30	
Trichloroethene	ug/L	ND	50	50	57.4	57.6	115	115	70-133	.3	30	
Trichlorofluoromethane	ug/L	ND	50	50	52.9	50.6	106	101	59-150	4	30	
Vinyl chloride	ug/L	ND	50	50	61.4	58.1	123	116	59-150	6	30	
Xylene (Total)	ug/L	ND	150	150	171	176	114	118	65-130	3	30	
1,2-Dichloroethane-d4 (S)	%						82	83	75-131			
4-Bromofluorobenzene (S)	%						100	97	75-125			
Dibromofluoromethane (S)	%						88	91	75-130			
Toluene-d8 (S)	%						99	98	75-125			

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

QUALITY CONTROL DATA

Project: City of Rochester
Pace Project No.: 10136159

QC Batch: MSV/15187 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 10136159004, 10136159005, 10136159006, 10136159008, 10136159009, 10136159010, 10136159011, 10136159013, 10136159014, 10136159016

METHOD BLANK: 840914 Matrix: Water
Associated Lab Samples: 10136159004, 10136159005, 10136159006, 10136159008, 10136159009, 10136159010, 10136159011, 10136159013, 10136159014, 10136159016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	08/23/10 11:02	
1,1,1-Trichloroethane	ug/L	ND	1.0	08/23/10 11:02	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	08/23/10 11:02	
1,1,2-Trichloroethane	ug/L	ND	1.0	08/23/10 11:02	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	08/23/10 11:02	
1,1-Dichloroethane	ug/L	ND	1.0	08/23/10 11:02	
1,1-Dichloroethene	ug/L	ND	1.0	08/23/10 11:02	
1,1-Dichloropropene	ug/L	ND	1.0	08/23/10 11:02	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	08/23/10 11:02	
1,2,3-Trichloropropane	ug/L	ND	1.0	08/23/10 11:02	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	08/23/10 11:02	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	08/23/10 11:02	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	08/23/10 11:02	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	08/23/10 11:02	
1,2-Dichlorobenzene	ug/L	ND	1.0	08/23/10 11:02	
1,2-Dichloroethane	ug/L	ND	1.0	08/23/10 11:02	
1,2-Dichloropropane	ug/L	ND	1.0	08/23/10 11:02	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	08/23/10 11:02	
1,3-Dichlorobenzene	ug/L	ND	1.0	08/23/10 11:02	
1,3-Dichloropropane	ug/L	ND	1.0	08/23/10 11:02	
1,4-Dichlorobenzene	ug/L	ND	1.0	08/23/10 11:02	
2,2-Dichloropropane	ug/L	ND	4.0	08/23/10 11:02	
2-Butanone (MEK)	ug/L	ND	4.0	08/23/10 11:02	
2-Chlorotoluene	ug/L	ND	1.0	08/23/10 11:02	
4-Chlorotoluene	ug/L	ND	1.0	08/23/10 11:02	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	08/23/10 11:02	
Acetone	ug/L	ND	10.0	08/23/10 11:02	
Allyl chloride	ug/L	ND	4.0	08/23/10 11:02	
Benzene	ug/L	ND	1.0	08/23/10 11:02	
Bromobenzene	ug/L	ND	1.0	08/23/10 11:02	
Bromochloromethane	ug/L	ND	1.0	08/23/10 11:02	
Bromodichloromethane	ug/L	ND	1.0	08/23/10 11:02	
Bromoform	ug/L	ND	8.0	08/23/10 11:02	
Bromomethane	ug/L	ND	4.0	08/23/10 11:02	
Carbon tetrachloride	ug/L	ND	4.0	08/23/10 11:02	
Chlorobenzene	ug/L	ND	1.0	08/23/10 11:02	
Chloroethane	ug/L	ND	1.0	08/23/10 11:02	
Chloroform	ug/L	ND	1.0	08/23/10 11:02	
Chloromethane	ug/L	ND	4.0	08/23/10 11:02	
cis-1,2-Dichloroethene	ug/L	ND	1.0	08/23/10 11:02	
cis-1,3-Dichloropropene	ug/L	ND	4.0	08/23/10 11:02	

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

QUALITY CONTROL DATA

Project: City of Rochester
Pace Project No.: 10136159

METHOD BLANK: 840914 Matrix: Water

Associated Lab Samples: 10136159004, 10136159005, 10136159006, 10136159008, 10136159009, 10136159010, 10136159011, 10136159013, 10136159014, 10136159016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	ND	1.0	08/23/10 11:02	
Dibromomethane	ug/L	ND	4.0	08/23/10 11:02	
Dichlorodifluoromethane	ug/L	ND	1.0	08/23/10 11:02	
Dichlorofluoromethane	ug/L	ND	1.0	08/23/10 11:02	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	08/23/10 11:02	
Ethylbenzene	ug/L	ND	1.0	08/23/10 11:02	
Hexachloro-1,3-butadiene	ug/L	ND	4.0	08/23/10 11:02	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	08/23/10 11:02	
m&p-Xylene	ug/L	ND	2.0	08/23/10 11:02	
Methyl-tert-butyl ether	ug/L	ND	1.0	08/23/10 11:02	
Methylene Chloride	ug/L	ND	4.0	08/23/10 11:02	
n-Butylbenzene	ug/L	ND	1.0	08/23/10 11:02	
n-Propylbenzene	ug/L	ND	1.0	08/23/10 11:02	
Naphthalene	ug/L	ND	4.0	08/23/10 11:02	
o-Xylene	ug/L	ND	1.0	08/23/10 11:02	
p-Isopropyltoluene	ug/L	ND	1.0	08/23/10 11:02	
sec-Butylbenzene	ug/L	ND	1.0	08/23/10 11:02	
Styrene	ug/L	ND	1.0	08/23/10 11:02	
tert-Butylbenzene	ug/L	ND	1.0	08/23/10 11:02	
Tetrachloroethene	ug/L	ND	1.0	08/23/10 11:02	
Tetrahydrofuran	ug/L	ND	10.0	08/23/10 11:02	
Toluene	ug/L	ND	1.0	08/23/10 11:02	
trans-1,2-Dichloroethene	ug/L	ND	1.0	08/23/10 11:02	
trans-1,3-Dichloropropene	ug/L	ND	4.0	08/23/10 11:02	
Trichloroethene	ug/L	ND	1.0	08/23/10 11:02	
Trichlorofluoromethane	ug/L	ND	1.0	08/23/10 11:02	
Vinyl chloride	ug/L	ND	0.40	08/23/10 11:02	
Xylene (Total)	ug/L	ND	3.0	08/23/10 11:02	
1,2-Dichloroethane-d4 (S)	%	94	75-131	08/23/10 11:02	
4-Bromofluorobenzene (S)	%	110	75-125	08/23/10 11:02	
Dibromofluoromethane (S)	%	105	75-130	08/23/10 11:02	
Toluene-d8 (S)	%	99	75-125	08/23/10 11:02	

LABORATORY CONTROL SAMPLE: 840915

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	47.6	95	75-125	
1,1,1-Trichloroethane	ug/L	50	47.6	95	68-130	
1,1,2,2-Tetrachloroethane	ug/L	50	45.7	91	71-125	
1,1,2-Trichloroethane	ug/L	50	49.1	98	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	51.1	102	60-141	
1,1-Dichloroethane	ug/L	50	50.7	101	75-125	
1,1-Dichloroethene	ug/L	50	51.7	103	69-125	
1,1-Dichloropropene	ug/L	50	56.3	113	69-125	

Pace Analytical®
www.pacelabs.com

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

QUALITY CONTROL DATA

Project: City of Rochester
Pace Project No.: 10136159

LABORATORY CONTROL SAMPLE: 840915

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichlorobenzene	ug/L	50	52.4	105	72-129	
1,2,3-Trichloropropane	ug/L	50	44.7	89	69-127	
1,2,4-Trichlorobenzene	ug/L	50	51.9	104	75-125	
1,2,4-Trimethylbenzene	ug/L	50	54.6	109	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	42.5	85	64-135	
1,2-Dibromoethane (EDB)	ug/L	50	47.2	94	75-126	
1,2-Dichlorobenzene	ug/L	50	50.7	101	75-125	
1,2-Dichloroethane	ug/L	50	44.2	88	75-125	
1,2-Dichloropropane	ug/L	50	53.8	108	75-125	
1,3,5-Trimethylbenzene	ug/L	50	56.1	112	75-125	
1,3-Dichlorobenzene	ug/L	50	51.0	102	75-125	
1,3-Dichloropropane	ug/L	50	48.9	98	75-125	
1,4-Dichlorobenzene	ug/L	50	49.4	99	75-125	
2,2-Dichloropropane	ug/L	50	50.8	102	54-149	
2-Butanone (MEK)	ug/L	50	48.7	97	55-140	
2-Chlorotoluene	ug/L	50	53.0	106	75-125	
4-Chlorotoluene	ug/L	50	55.3	111	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	50	44.7	89	65-132	
Acetone	ug/L	125	110	88	36-126	
Allyl chloride	ug/L	50	57.7	115	64-137	
Benzene	ug/L	50	56.4	113	75-125	
Bromobenzene	ug/L	50	50.6	101	75-125	
Bromochloromethane	ug/L	50	49.4	99	75-125	
Bromodichloromethane	ug/L	50	46.6	93	75-125	
Bromoform	ug/L	50	46.0	92	72-131	
Bromomethane	ug/L	50	40.8	82	30-150	
Carbon tetrachloride	ug/L	50	45.2	90	61-140	
Chlorobenzene	ug/L	50	51.4	103	75-125	
Chloroethane	ug/L	50	52.0	104	56-137	
Chloroform	ug/L	50	49.6	99	75-125	
Chloromethane	ug/L	50	47.6	95	62-128	
cis-1,2-Dichloroethene	ug/L	50	56.0	112	75-125	
cis-1,3-Dichloropropene	ug/L	50	54.5	109	75-125	
Dibromochloromethane	ug/L	50	47.0	94	75-125	
Dibromomethane	ug/L	50	47.9	96	75-125	
Dichlorodifluoromethane	ug/L	50	40.6	81	54-141	
Dichlorofluoromethane	ug/L	50	48.9	98	70-128	
Diethyl ether (Ethyl ether)	ug/L	50	51.2	102	75-125	
Ethylbenzene	ug/L	50	54.9	110	75-125	
Hexachloro-1,3-butadiene	ug/L	25	26.8	107	68-133	
Isopropylbenzene (Cumene)	ug/L	50	57.0	114	75-125	
m&p-Xylene	ug/L	100	112	112	75-125	
Methyl-tert-butyl ether	ug/L	50	44.9	90	73-132	
Methylene Chloride	ug/L	50	53.4	107	74-125	
n-Butylbenzene	ug/L	50	52.4	105	75-125	
n-Propylbenzene	ug/L	50	55.8	112	75-125	
Naphthalene	ug/L	50	45.0	90	69-130	
o-Xylene	ug/L	50	57.8	116	75-125	

Pace Analytical®
www.pacelabs.com

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

QUALITY CONTROL DATA

Project: City of Rochester
Pace Project No.: 10136159

LABORATORY CONTROL SAMPLE: 840915

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
p-Isopropyltoluene	ug/L	50	53.4	107	75-125	
sec-Butylbenzene	ug/L	50	58.4	117	75-125	
Styrene	ug/L	50	51.9	104	75-125	
tert-Butylbenzene	ug/L	50	56.6	113	73-125	
Tetrachloroethene	ug/L	50	53.6	107	72-125	
Tetrahydrofuran	ug/L	500	481	96	64-135	
Toluene	ug/L	50	55.1	110	75-125	
trans-1,2-Dichloroethene	ug/L	50	49.1	98	70-125	
trans-1,3-Dichloropropene	ug/L	50	50.9	102	75-125	
Trichloroethene	ug/L	50	54.4	109	75-125	
Trichlorofluoromethane	ug/L	50	44.2	88	68-132	
Vinyl chloride	ug/L	50	53.9	108	62-132	
Xylene (Total)	ug/L	150	170	113	75-125	
1,2-Dichloroethane-d4 (S)	%			80	75-131	
4-Bromofluorobenzene (S)	%			100	75-125	
Dibromofluoromethane (S)	%			91	75-130	
Toluene-d8 (S)	%			100	75-125	

MATRIX SPIKE SAMPLE: 841032

Parameter	Units	10136159008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	50	46.4	93	72-133	
1,1,1-Trichloroethane	ug/L	ND	50	47.1	94	65-150	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	47.9	96	63-138	
1,1,2-Trichloroethane	ug/L	ND	50	49.8	100	68-131	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	49.8	100	47-150	
1,1-Dichloroethane	ug/L	ND	50	49.5	99	71-131	
1,1-Dichloroethene	ug/L	ND	50	50.9	102	66-145	
1,1-Dichloropropene	ug/L	ND	50	55.4	111	62-144	
1,2,3-Trichlorobenzene	ug/L	ND	50	52.1	104	66-139	
1,2,3-Trichloropropane	ug/L	ND	50	43.7	87	61-139	
1,2,4-Trichlorobenzene	ug/L	ND	50	49.6	99	68-139	
1,2,4-Trimethylbenzene	ug/L	ND	50	53.8	108	69-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	44.4	89	53-150	
1,2-Dibromoethane (EDB)	ug/L	ND	50	46.4	93	69-133	
1,2-Dichlorobenzene	ug/L	ND	50	50.5	101	72-131	
1,2-Dichloroethane	ug/L	ND	50	42.4	85	62-148	
1,2-Dichloropropane	ug/L	ND	50	52.6	105	74-128	
1,3,5-Trimethylbenzene	ug/L	ND	50	53.9	108	65-134	
1,3-Dichlorobenzene	ug/L	ND	50	49.2	98	73-130	
1,3-Dichloropropane	ug/L	ND	50	48.8	98	71-130	
1,4-Dichlorobenzene	ug/L	ND	50	48.2	96	71-132	
2,2-Dichloropropane	ug/L	ND	50	12.2	24	50-150	M1
2-Butanone (MEK)	ug/L	ND	50	41.6	83	46-140	
2-Chlorotoluene	ug/L	ND	50	52.2	104	74-131	
4-Chlorotoluene	ug/L	ND	50	52.0	104	70-139	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	44.6	89	59-145	

Pace Analytical®
www.pacelabs.com

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

QUALITY CONTROL DATA

Project: City of Rochester
Pace Project No.: 10136159

MATRIX SPIKE SAMPLE: 841032

Parameter	Units	10136159008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	ND	125	85.7	69	36-126	
Allyl chloride	ug/L	ND	50	47.8	96	50-148	
Benzene	ug/L	ND	50	55.3	111	70-133	
Bromobenzene	ug/L	ND	50	51.2	102	72-129	
Bromochloromethane	ug/L	ND	50	47.5	95	69-137	
Bromodichloromethane	ug/L	ND	50	47.5	95	73-134	
Bromoform	ug/L	ND	50	47.6	95	56-144	
Bromomethane	ug/L	ND	50	39.7	79	30-150	
Carbon tetrachloride	ug/L	ND	50	44.6	89	55-150	
Chlorobenzene	ug/L	ND	50	50.4	101	71-132	
Chloroethane	ug/L	ND	50	54.1	108	50-150	
Chloroform	ug/L	1.0	50	49.1	96	68-138	
Chloromethane	ug/L	ND	50	51.6	103	61-148	
cis-1,2-Dichloroethene	ug/L	ND	50	55.2	109	68-135	
cis-1,3-Dichloropropene	ug/L	ND	50	39.4	79	70-134	
Dibromochloromethane	ug/L	ND	50	46.6	93	67-135	
Dibromomethane	ug/L	ND	50	48.3	97	74-130	
Dichlorodifluoromethane	ug/L	ND	50	49.2	98	44-150	
Dichlorofluoromethane	ug/L	ND	50	48.2	96	67-145	
Diethyl ether (Ethyl ether)	ug/L	ND	50	50.7	101	69-132	
Ethylbenzene	ug/L	ND	50	52.5	105	66-133	
Hexachloro-1,3-butadiene	ug/L	ND	25	26.2	105	59-150	
Isopropylbenzene (Cumene)	ug/L	ND	50	55.3	111	71-140	
m&p-Xylene	ug/L	ND	100	107	107	63-130	
Methyl-tert-butyl ether	ug/L	ND	50	45.2	90	62-143	
Methylene Chloride	ug/L	ND	50	50.3	101	69-126	
n-Butylbenzene	ug/L	ND	50	46.3	93	73-140	
n-Propylbenzene	ug/L	ND	50	53.5	107	71-136	
Naphthalene	ug/L	ND	50	47.1	94	55-147	
o-Xylene	ug/L	ND	50	55.1	110	66-132	
p-Isopropyltoluene	ug/L	ND	50	50.3	101	69-138	
sec-Butylbenzene	ug/L	ND	50	55.8	112	73-140	
Styrene	ug/L	ND	50	46.2	92	68-138	
tert-Butylbenzene	ug/L	ND	50	56.0	112	70-138	
Tetrachloroethene	ug/L	21.7	50	74.0	105	70-138	
Tetrahydrofuran	ug/L	ND	500	476	95	54-148	
Toluene	ug/L	ND	50	54.2	108	65-127	
trans-1,2-Dichloroethene	ug/L	ND	50	49.5	99	67-131	
trans-1,3-Dichloropropene	ug/L	ND	50	39.8	80	64-138	
Trichloroethene	ug/L	ND	50	57.5	115	70-133	
Trichlorofluoromethane	ug/L	ND	50	48.0	96	59-150	
Vinyl chloride	ug/L	ND	50	59.2	118	59-150	
Xylene (Total)	ug/L	ND	150	162	108	65-130	
1,2-Dichloroethane-d4 (S)	%				79	75-131	
4-Bromofluorobenzene (S)	%				105	75-125	
Dibromofluoromethane (S)	%				91	75-130	
Toluene-d8 (S)	%				103	75-125	

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

QUALITY CONTROL DATA

Project: City of Rochester
Pace Project No.: 10136159

SAMPLE DUPLICATE: 841033

Parameter	Units	10136159009 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	11.9	11.9	.5	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	.36J		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	1.3	1.3	5	30	
Chloromethane	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	ND	ND		30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Dichlorofluoromethane	ug/L	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: City of Rochester
Pace Project No.: 10136159

SAMPLE DUPLICATE: 841033

Parameter	Units	10136159009 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	189	191	.9	30	
Tetrahydrofuran	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	97	100	4		
4-Bromofluorobenzene (S)	%	100	100	.7		
Dibromofluoromethane (S)	%	107	108	1		
Toluene-d8 (S)	%	92	93	.7		

Pace Analytical®
www.pacelabs.com

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

QUALITY CONTROL DATA

Project: City of Rochester
Pace Project No.: 10136159

QC Batch: MSV/15210 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 10136159001, 10136159007, 10136159012, 10136159015

METHOD BLANK: 842770 Matrix: Water
Associated Lab Samples: 10136159001, 10136159007, 10136159012, 10136159015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	08/25/10 13:09	
1,1,1-Trichloroethane	ug/L	ND	1.0	08/25/10 13:09	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	08/25/10 13:09	
1,1,2-Trichloroethane	ug/L	ND	1.0	08/25/10 13:09	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	08/25/10 13:09	
1,1-Dichloroethane	ug/L	ND	1.0	08/25/10 13:09	
1,1-Dichloroethene	ug/L	ND	1.0	08/25/10 13:09	
1,1-Dichloropropene	ug/L	ND	1.0	08/25/10 13:09	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	08/25/10 13:09	
1,2,3-Trichloropropane	ug/L	ND	1.0	08/25/10 13:09	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	08/25/10 13:09	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	08/25/10 13:09	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	08/25/10 13:09	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	08/25/10 13:09	
1,2-Dichlorobenzene	ug/L	ND	1.0	08/25/10 13:09	
1,2-Dichloroethane	ug/L	ND	1.0	08/25/10 13:09	
1,2-Dichloropropane	ug/L	ND	1.0	08/25/10 13:09	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	08/25/10 13:09	
1,3-Dichlorobenzene	ug/L	ND	1.0	08/25/10 13:09	
1,3-Dichloropropane	ug/L	ND	1.0	08/25/10 13:09	
1,4-Dichlorobenzene	ug/L	ND	1.0	08/25/10 13:09	
2,2-Dichloropropane	ug/L	ND	4.0	08/25/10 13:09	
2-Butanone (MEK)	ug/L	ND	4.0	08/25/10 13:09	
2-Chlorotoluene	ug/L	ND	1.0	08/25/10 13:09	
4-Chlorotoluene	ug/L	ND	1.0	08/25/10 13:09	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	08/25/10 13:09	
Acetone	ug/L	ND	10.0	08/25/10 13:09	
Allyl chloride	ug/L	ND	4.0	08/25/10 13:09	
Benzene	ug/L	ND	1.0	08/25/10 13:09	
Bromobenzene	ug/L	ND	1.0	08/25/10 13:09	
Bromochloromethane	ug/L	ND	1.0	08/25/10 13:09	
Bromodichloromethane	ug/L	ND	1.0	08/25/10 13:09	
Bromoform	ug/L	ND	8.0	08/25/10 13:09	
Bromomethane	ug/L	ND	4.0	08/25/10 13:09	
Carbon tetrachloride	ug/L	ND	4.0	08/25/10 13:09	
Chlorobenzene	ug/L	ND	1.0	08/25/10 13:09	
Chloroethane	ug/L	ND	1.0	08/25/10 13:09	
Chloroform	ug/L	ND	1.0	08/25/10 13:09	
Chloromethane	ug/L	ND	4.0	08/25/10 13:09	
cis-1,2-Dichloroethene	ug/L	ND	1.0	08/25/10 13:09	
cis-1,3-Dichloropropene	ug/L	ND	4.0	08/25/10 13:09	
Dibromochloromethane	ug/L	ND	1.0	08/25/10 13:09	
Dibromomethane	ug/L	ND	4.0	08/25/10 13:09	

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

QUALITY CONTROL DATA

Project: City of Rochester
Pace Project No.: 10136159

METHOD BLANK: 842770 Matrix: Water

Associated Lab Samples: 10136159001, 10136159007, 10136159012, 10136159015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	08/25/10 13:09	
Dichlorofluoromethane	ug/L	ND	1.0	08/25/10 13:09	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	08/25/10 13:09	
Ethylbenzene	ug/L	ND	1.0	08/25/10 13:09	
Hexachloro-1,3-butadiene	ug/L	ND	4.0	08/25/10 13:09	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	08/25/10 13:09	
m&p-Xylene	ug/L	ND	2.0	08/25/10 13:09	
Methyl-tert-butyl ether	ug/L	ND	1.0	08/25/10 13:09	
Methylene Chloride	ug/L	ND	4.0	08/25/10 13:09	
n-Butylbenzene	ug/L	ND	1.0	08/25/10 13:09	
n-Propylbenzene	ug/L	ND	1.0	08/25/10 13:09	
Naphthalene	ug/L	ND	4.0	08/25/10 13:09	
o-Xylene	ug/L	ND	1.0	08/25/10 13:09	
p-Isopropyltoluene	ug/L	ND	1.0	08/25/10 13:09	
sec-Butylbenzene	ug/L	ND	1.0	08/25/10 13:09	
Styrene	ug/L	ND	1.0	08/25/10 13:09	
tert-Butylbenzene	ug/L	ND	1.0	08/25/10 13:09	
Tetrachloroethene	ug/L	ND	1.0	08/25/10 13:09	
Tetrahydrofuran	ug/L	ND	10.0	08/25/10 13:09	
Toluene	ug/L	ND	1.0	08/25/10 13:09	
trans-1,2-Dichloroethene	ug/L	ND	1.0	08/25/10 13:09	
trans-1,3-Dichloropropene	ug/L	ND	4.0	08/25/10 13:09	
Trichloroethene	ug/L	ND	1.0	08/25/10 13:09	
Trichlorofluoromethane	ug/L	ND	1.0	08/25/10 13:09	
Vinyl chloride	ug/L	ND	0.40	08/25/10 13:09	
Xylene (Total)	ug/L	ND	3.0	08/25/10 13:09	
1,2-Dichloroethane-d4 (S)	%	104	75-131	08/25/10 13:09	
4-Bromofluorobenzene (S)	%	97	75-125	08/25/10 13:09	
Dibromofluoromethane (S)	%	108	75-130	08/25/10 13:09	
Toluene-d8 (S)	%	96	75-125	08/25/10 13:09	

LABORATORY CONTROL SAMPLE: 842771

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	55.8	112	75-125	
1,1,1-Trichloroethane	ug/L	50	60.7	121	68-130	
1,1,2,2-Tetrachloroethane	ug/L	50	55.9	112	71-125	
1,1,2-Trichloroethane	ug/L	50	57.3	115	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	63.3	127	60-141	
1,1-Dichloroethane	ug/L	50	61.0	122	75-125	
1,1-Dichloroethene	ug/L	50	61.4	123	69-125	
1,1-Dichloropropene	ug/L	50	60.9	122	69-125	
1,2,3-Trichlorobenzene	ug/L	50	54.6	109	72-129	
1,2,3-Trichloropropane	ug/L	50	56.8	114	69-127	
1,2,4-Trichlorobenzene	ug/L	50	54.4	109	75-125	

Pace Analytical®
www.pacelabs.com

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

QUALITY CONTROL DATA

Project: City of Rochester
Pace Project No.: 10136159

LABORATORY CONTROL SAMPLE: 842771

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	50	58.0	116	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	54.2	108	64-135	
1,2-Dibromoethane (EDB)	ug/L	50	57.5	115	75-126	
1,2-Dichlorobenzene	ug/L	50	55.9	112	75-125	
1,2-Dichloroethane	ug/L	50	59.9	120	75-125	
1,2-Dichloropropane	ug/L	50	58.7	117	75-125	
1,3,5-Trimethylbenzene	ug/L	50	57.8	116	75-125	
1,3-Dichlorobenzene	ug/L	50	55.8	112	75-125	
1,3-Dichloropropane	ug/L	50	57.2	114	75-125	
1,4-Dichlorobenzene	ug/L	50	55.9	112	75-125	
2,2-Dichloropropane	ug/L	50	61.1	122	54-149	
2-Butanone (MEK)	ug/L	50	76.4	153	55-140	L3
2-Chlorotoluene	ug/L	50	55.9	112	75-125	
4-Chlorotoluene	ug/L	50	57.5	115	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	50	55.5	111	65-132	
Acetone	ug/L	125	266	213	36-126	CH,L3
Allyl chloride	ug/L	50	62.6	125	64-137	
Benzene	ug/L	50	60.0	120	75-125	
Bromobenzene	ug/L	50	57.0	114	75-125	
Bromochloromethane	ug/L	50	59.3	119	75-125	
Bromodichloromethane	ug/L	50	59.2	118	75-125	
Bromoform	ug/L	50	56.2	112	72-131	
Bromomethane	ug/L	50	59.6	119	30-150	
Carbon tetrachloride	ug/L	50	61.0	122	61-140	
Chlorobenzene	ug/L	50	54.9	110	75-125	
Chloroethane	ug/L	50	62.0	124	56-137	
Chloroform	ug/L	50	60.1	120	75-125	
Chloromethane	ug/L	50	52.4	105	62-128	
cis-1,2-Dichloroethene	ug/L	50	60.7	121	75-125	
cis-1,3-Dichloropropene	ug/L	50	58.4	117	75-125	
Dibromochloromethane	ug/L	50	55.3	111	75-125	
Dibromomethane	ug/L	50	60.4	121	75-125	
Dichlorodifluoromethane	ug/L	50	67.6	135	54-141	
Dichlorofluoromethane	ug/L	50	61.7	123	70-128	
Diethyl ether (Ethyl ether)	ug/L	50	60.3	121	75-125	
Ethylbenzene	ug/L	50	57.5	115	75-125	
Hexachloro-1,3-butadiene	ug/L	25	28.1	112	68-133	
Isopropylbenzene (Cumene)	ug/L	50	58.6	117	75-125	
m&p-Xylene	ug/L	100	115	115	75-125	
Methyl-tert-butyl ether	ug/L	50	58.8	118	73-132	
Methylene Chloride	ug/L	50	55.8	112	74-125	
n-Butylbenzene	ug/L	50	59.6	119	75-125	
n-Propylbenzene	ug/L	50	58.3	117	75-125	
Naphthalene	ug/L	50	56.0	112	69-130	
o-Xylene	ug/L	50	56.7	113	75-125	
p-Isopropyltoluene	ug/L	50	57.8	116	75-125	
sec-Butylbenzene	ug/L	50	58.2	116	75-125	
Styrene	ug/L	50	58.6	117	75-125	

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

QUALITY CONTROL DATA

Project: City of Rochester
Pace Project No.: 10136159

LABORATORY CONTROL SAMPLE: 842771

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	56.3	113	73-125	
Tetrachloroethene	ug/L	50	56.1	112	72-125	
Tetrahydrofuran	ug/L	500	602	120	64-135	
Toluene	ug/L	50	56.1	112	75-125	
trans-1,2-Dichloroethene	ug/L	50	59.8	120	70-125	
trans-1,3-Dichloropropene	ug/L	50	57.7	115	75-125	
Trichloroethene	ug/L	50	57.7	115	75-125	
Trichlorofluoromethane	ug/L	50	63.8	128	68-132	
Vinyl chloride	ug/L	50	62.6	125	62-132	
Xylene (Total)	ug/L	150	172	114	75-125	
1,2-Dichloroethane-d4 (S)	%			105	75-131	
4-Bromofluorobenzene (S)	%			99	75-125	
Dibromofluoromethane (S)	%			104	75-130	
Toluene-d8 (S)	%			99	75-125	

MATRIX SPIKE SAMPLE: 842798

Parameter	Units	10136422001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	50	47.4	95	72-133	
1,1,1-Trichloroethane	ug/L	ND	50	53.3	107	65-150	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	46.8	94	63-138	
1,1,2-Trichloroethane	ug/L	ND	50	47.2	94	68-131	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	60.5	121	47-150	
1,1-Dichloroethane	ug/L	ND	50	52.0	104	71-131	
1,1-Dichloroethene	ug/L	ND	50	55.0	110	66-145	
1,1-Dichloropropene	ug/L	ND	50	53.7	107	62-144	
1,2,3-Trichlorobenzene	ug/L	ND	50	43.6	87	66-139	
1,2,3-Trichloropropane	ug/L	ND	50	46.3	93	61-139	
1,2,4-Trichlorobenzene	ug/L	ND	50	44.9	90	68-139	
1,2,4-Trimethylbenzene	ug/L	ND	50	49.4	99	69-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	44.1	88	53-150	
1,2-Dibromoethane (EDB)	ug/L	ND	50	46.4	93	69-133	
1,2-Dichlorobenzene	ug/L	ND	50	46.8	94	72-131	
1,2-Dichloroethane	ug/L	ND	50	49.9	100	62-148	
1,2-Dichloropropane	ug/L	ND	50	49.1	98	74-128	
1,3,5-Trimethylbenzene	ug/L	ND	50	49.2	98	65-134	
1,3-Dichlorobenzene	ug/L	ND	50	46.7	93	73-130	
1,3-Dichloropropane	ug/L	ND	50	46.9	94	71-130	
1,4-Dichlorobenzene	ug/L	ND	50	47.0	94	71-132	
2,2-Dichloropropane	ug/L	ND	50	54.6	109	50-150	
2-Butanone (MEK)	ug/L	ND	50	47.6	95	46-140	
2-Chlorotoluene	ug/L	ND	50	48.5	97	74-131	
4-Chlorotoluene	ug/L	ND	50	48.9	98	70-139	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	45.5	91	59-145	
Acetone	ug/L	ND	125	119	95	36-126	CH
Allyl chloride	ug/L	ND	50	50.3	101	50-148	
Benzene	ug/L	ND	50	52.5	105	70-133	

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

QUALITY CONTROL DATA

Project: City of Rochester
Pace Project No.: 10136159

MATRIX SPIKE SAMPLE: 842798

Parameter	Units	10136422001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromobenzene	ug/L	ND	50	47.8	96	72-129	
Bromochloromethane	ug/L	ND	50	49.9	100	69-137	
Bromodichloromethane	ug/L	ND	50	49.6	99	73-134	
Bromoform	ug/L	ND	50	45.1	90	56-144	
Bromomethane	ug/L	ND	50	54.0	108	30-150	
Carbon tetrachloride	ug/L	ND	50	54.2	108	55-150	
Chlorobenzene	ug/L	ND	50	45.9	92	71-132	
Chloroethane	ug/L	ND	50	54.7	109	50-150	
Chloroform	ug/L	ND	50	51.0	102	68-138	
Chloromethane	ug/L	ND	50	44.8	90	61-148	
cis-1,2-Dichloroethene	ug/L	ND	50	50.5	101	68-135	
cis-1,3-Dichloropropene	ug/L	ND	50	47.6	95	70-134	
Dibromochloromethane	ug/L	ND	50	46.1	92	67-135	
Dibromomethane	ug/L	ND	50	49.0	98	74-130	
Dichlorodifluoromethane	ug/L	ND	50	62.5	125	44-150	
Dichlorofluoromethane	ug/L	ND	50	54.5	109	67-145	
Diethyl ether (Ethyl ether)	ug/L	ND	50	51.6	103	69-132	
Ethylbenzene	ug/L	ND	50	49.0	98	66-133	
Hexachloro-1,3-butadiene	ug/L	ND	25	24.2	97	59-150	
Isopropylbenzene (Cumene)	ug/L	ND	50	49.4	99	71-140	
m&p-Xylene	ug/L	ND	100	97.6	98	63-130	
Methyl-tert-butyl ether	ug/L	ND	50	48.8	98	62-143	
Methylene Chloride	ug/L	ND	50	47.2	94	69-126	
n-Butylbenzene	ug/L	ND	50	51.3	103	73-140	
n-Propylbenzene	ug/L	ND	50	51.0	102	71-136	
Naphthalene	ug/L	ND	50	46.1	92	55-147	
o-Xylene	ug/L	ND	50	48.0	96	66-132	
p-Isopropyltoluene	ug/L	ND	50	50.2	100	69-138	
sec-Butylbenzene	ug/L	ND	50	51.2	102	73-140	
Styrene	ug/L	ND	50	48.2	96	68-138	
tert-Butylbenzene	ug/L	ND	50	48.4	97	70-138	
Tetrachloroethene	ug/L	ND	50	47.9	96	70-138	
Tetrahydrofuran	ug/L	ND	500	490	98	54-148	
Toluene	ug/L	ND	50	47.5	95	65-127	
trans-1,2-Dichloroethene	ug/L	ND	50	53.7	107	67-131	
trans-1,3-Dichloropropene	ug/L	ND	50	46.6	93	64-138	
Trichloroethene	ug/L	ND	50	49.2	98	70-133	
Trichlorofluoromethane	ug/L	ND	50	58.7	117	59-150	
Vinyl chloride	ug/L	ND	50	56.7	113	59-150	
Xylene (Total)	ug/L	ND	150	146	97	65-130	
1,2-Dichloroethane-d4 (S)	%				104	75-131	
4-Bromofluorobenzene (S)	%				98	75-125	
Dibromofluoromethane (S)	%				103	75-130	
Toluene-d8 (S)	%				98	75-125	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: City of Rochester
Pace Project No.: 10136159

SAMPLE DUPLICATE: 842799

Parameter	Units	10136422002 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	141	138	3	30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Dichlorofluoromethane	ug/L	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	

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

QUALITY CONTROL DATA

Project: City of Rochester
Pace Project No.: 10136159

SAMPLE DUPLICATE: 842799

Parameter	Units	10136422002 Result	Dup Result	RPD	Max RPD	Qualifiers
Isopropylbenzene (Cumene)	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
n-Butylbenzene	ug/L	ND	ND		30	
n-Propylbenzene	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
sec-Butylbenzene	ug/L	ND	ND		30	
Styrene	ug/L	ND	ND		30	
tert-Butylbenzene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	ND	ND		30	
Tetrahydrofuran	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	34.2	32.8	4	30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl chloride	ug/L	2.0	2.0	.2	30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	112	118	5		
4-Bromofluorobenzene (S)	%	100	98	2		
Dibromofluoromethane (S)	%	113	119	5		
Toluene-d8 (S)	%	98	96	2		

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: City of Rochester
Pace Project No.: 10136159

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

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

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

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

Pace Analytical®
www.pacelabs.com

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: City of Rochester
Pace Project No.: 10136159

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10136159001	MW-17	EPA 8260	MSV/15210		
10136159002	MW-18	EPA 8260	MSV/15182		
10136159003	DPE-1	EPA 8260	MSV/15182		
10136159004	DPE-2	EPA 8260	MSV/15187		
10136159005	DPE-3	EPA 8260	MSV/15187		
10136159006	DPE-4	EPA 8260	MSV/15187		
10136159007	DPE-5	EPA 8260	MSV/15210		
10136159008	DPE-6	EPA 8260	MSV/15187		
10136159009	DPE-7	EPA 8260	MSV/15187		
10136159010	DPE-8	EPA 8260	MSV/15187		
10136159011	MW-15	EPA 8260	MSV/15187		
10136159012	MW-16	EPA 8260	MSV/15210		
10136159013	MW-14	EPA 8260	MSV/15187		
10136159014	MW-19	EPA 8260	MSV/15187		
10136159015	MW-20	EPA 8260	MSV/15210		
10136159016	Trip Blank	EPA 8260	MSV/15187		

Pace Analytical™
www.pacelabs.com

1123

CHAIN-OF-CUSTODY / Analytical Request Document

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

1013659

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

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER_____

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

Section D Required Client Information

SAMPLE ID

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

Valid Matrix Codes

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

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: EPA 8260 VOCs	Pace Project Number / Lab I.D.
1	MW-17	W	G	8/18/10	15:59				3										X	001
2	MW-18	W	G	8/18/10	15:35				3										X	002
3	DPE-1	W	G	8/18/10	18:00				3										X	003
4	DPE-2	W	G	8/18/10	18:10				3										X	004
5	DPE-3	W	G	8/18/10	18:20				3										X	005
6	DPE-4	W	G	8/18/10	18:30				3										X	006
7	DPE-5	W	G	8/18/10	18:40				3										X	007
8	DPE-6	W	G	8/18/10	18:50				3										X	008
5	DPE-7	W	G	8/18/10	19:00				3										X	009
6	DPE-8	W	G	8/18/10	19:10				3										X	010
7	MW-15	W	G	8/18/10	14:59				3										X	011
8	MW-16	W	G	8/18/10	16:49				3										X	012

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
				8/19/10	1523

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY): 8/19/10

58 of 60

Pace Analytical™
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

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

REGULATORY AGENCY

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

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

Section D Required Client Information

Valid Matrix Codes

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

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / ,-) Samples IDs MUST BE UNIQUE)	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis: EPA 8260 VOCs	Pace Project Number Lab I.D.
1	MW-14	W	G	8/18/10	14:40				3									X	013
2	MW-19	W	G	8/18/10	14:00				3									X	014
3	MW-20	W	G	8/18/10	16:20				3									X	015
4																			
5																			
6																			
7																			
8																			
5																			
6																			
7																			
8																			

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
				8/19/10	1523

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 8/19/10

59 of 60

Sample Condition Upon Receipt

Pace Analytical

Client Name: Landmark Environmental Project # 10136159

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

Tracking #: _____

Optional: Proj. Due Date: Proj. Name:

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

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

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

Cooler Temperature 5.3 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 8/19/10 MSP

Comments:

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	8/19/10 ☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	8/19/10 ☑Yes ☐No ☐N/A	12. TB not on the COC
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing acid/base preservation have been checked. Noncompliance are noted in 13.	☐Yes ☐No ☑N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ HCl
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	Samp #
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	☑Yes ☐No	Initial when completed MSP / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 080510		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: CDut **Date:** 8/20/10

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

Attachment C

Site Data Entry Worksheet for Soil Vapor Extraction Systems

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

Project Name:		Enter Height of Stack#1 (meters):	Enter Distance from Stack#1 to Nearest Receptor or Property Boundary (in meters, minimum 10):	Enter Measured Gas Flow Rate through Vent Stack#1 (m^3/sec):				
MN Bio Business Center		8	10	0.02				
Date of Emission Test:				**STACK 1**				
06/17/10				**ENTER EMISSION CONCENTRATIONS FOR STACK#1 in Column C**				
Chemical Name	**CAS or MPCA#**	Emission concentration stack#1 ug/m^3	Gas flow rate through vent stack#1 m^3/sec	Emission rate stack#1 ug/sec	Emission rate stack#1 lb/hr	Emission rate stack#1 tons/year	Total Annual Emissions (tons/year)	Cumulative Emission Rate (ug/sec)
Tetrachloroethylene (Perchloroethylene)	127-18-4	689000	1.7000E-02	1.1713E+04	9.2962E-02	4.0717E-01	4.0717E-01	1.1713E+04
Trichloro-1,2,2-trifluoroethane, 1,1,2- (Freon 113)	76-13-1	342000	1.7000E-02	5.8140E+03	4.6144E-02	2.0211E-01	2.0211E-01	5.8140E+03
							6.0928E-01	

Site Data Entry Worksheet for Air Stripper Systems

Enter Site Data for up to 5 air strippers in yellow cells.

Site/Project Name:	MN Bio Business Center
Emission Test Date:	6/17/2010

Enter Height of Stack: (meters)	Enter Distance from Stack to Nearest Receptor or Property Boundary: (in meters, minimum 10)	Air Stripper#1 influent flow rate [IFR] (liter/sec)
8	10	0.04

Air Stripper #1

Chemical Name	CAS or MPCA#	Influent Groundwater Concentration [IGC] (ug/L)	Effluent Groundwater Concentration [EGC] (ug/L)	Removal Factor [RF] (dimension less)	Emission Rate [ER = IGC*IFR*RF] (ug/sec)	Emission Rate (lbs/hr)	Emissions Rate (tons/yr)	Cumulative Emission Rate (ug/sec)	Total Annual Emissions (lbs/hr)	Total Annual Emissions (tons/year)
Acetone	67-64-1	0.00E+00	1.33E+01	#DIV/0!	#DIV/0!	0.00E+00	0.00E+00	#DIV/0!	0.00E+00	0.00E+00
Tetrachloroethylene (Perchloroethylene)	127-18-4	1.08E+02	2.40E+00	0.98	3.91E+00	3.10E-05	1.36E-04	3.91E+00	3.10E-05	1.36E-04
Trichloro-1,2,2-trifluoroethane, 1,1,2- (Freon 113)	76-13-1	2.60E+00	0.00E+00	1.00	9.62E-02	7.64E-07	3.34E-06	9.62E-02	7.64E-07	3.34E-06

Screening Emission Rates (SERs) and Chronic Risk Summary
Based on site inputs provided on Soil Venting Worksheet and Air Stripper Worksheet

Site/Project Name:
MN Bio Business Center

Emission Test Date:
6/17/2010

Chemical Name	CAS # or MPCA #	Chronic Noncancer tox value (ug/m3)	Chronic Cancer tox value (ug/m3)	Annual Disp. Factor ((ug/m3)/g/s)	SER for Chronic Risk (ug/s)	Site Specific Emission Rate (ug/s)	Calculated Conc at Receptor for Chronic Risk (ug/m3)	Site HQ (Noncancer)	ELCR (Cancer)
Tetrachloroethylene (Perchloroethylene)	127-18-4	1.00E+02	2.00E+01	1230	1.63E+04	1.17E+04	1.44E+01	0.1	7.2E-06
Trichloro-1,2,2-trifluoroethane, 1,1,2- (Freon 113)	76-13-1			1230		5.81E+03	7.15E+00		
						Additive Risk:		**0.1**	**7.2E-06**

Screening Emission Rates (SERs) and Acute Risk Summary

Based on site inputs provided on Soil Venting Worksheet and Air Stripper Worksheet

Site/Project Name:
MN Bio Business Center

Emission Test Date:
6/17/2010

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

Chemical Name	**CAS # or MPCA #**	Acute toxcity value (ug/m3)	1-hr Disp. Factor ((ug/m3)/g/s)	SER [acute risk] (ug/s)	Site Emission Rate (ug/s)	Calculated Conc at Receptor for Acute Risk (ug/m3)	**Site HQ (Noncancer) for acute risk**
Tetrachloroethylene (Perchloroethylene)	127-18-4	20000	3343	5.98E+06	1.17E+04	1.72E+02	0.0
Trichloro-1,2,2-trifluoroethane, 1,1,2- (Freon 113)	76-13-1		3343		5.81E+03	8.51E+01	
					Additive Risk:		**0.0**

Risk Evaluation Summary

RASS Version Used: RASS version number = 20060829 - RASS

This worksheet provides a summary of the results of the chronic and acute risk calculations based on site inputs from the Soil Venting and the Air Stripper worksheets. For both chronic and acute risk, an unacceptable risk is indicated in red if the Hazard Index exceeds 1. For chronic risk, an unacceptable risk is also indicated in red if the additive ELCR exceeds 10-5. This worksheet also indicates if levels of any acute developmental toxicants (which are considered ceiling values and should never be exceeded) pose an unacceptable risk.

CHRONIC RISK SUMMARY	
Number of Compounds with Hazard Quotient >1:	**#VALUE!**
Number of Compounds with Cancer Risk > 10^{-5}	**#VALUE!**
Noncancer Hazard Index:	**0.1**
Excess Lifetime Cancer Risk (ELCR):	**7.2E-06**

ACUTE RISK SUMMARY	
Number of Compounds with Hazard Quotient >1:	**#VALUE!**
Hazard Index:	**0.0**

Ceiling Values Exceeded?	
Arsenic	**NO**
Benzene	**NO**
Carbon disulfide	**NO**
Carbon tetrachloride	**NO**
Cellosolve Acetate	**NO**
Chloroform	**NO**
Ethoxyethanol, 2-	**NO**
Ethylbenzene	**NO**
Ethyl chloride	**NO**
Mercury	**NO**
Methoxyethanol, 2-	**NO**
Propylene oxide	**NO**
Trichloroethylene	**NO**

Site Data Entry Worksheet for Soil Vapor Extraction Systems

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

Project Name:		Enter Height of Stack#1 (meters):	Enter Distance from Stack#1 to Nearest Receptor or Property Boundary (in meters, minimum 10):	Enter Measured Gas Flow Rate through Vent Stack#1 (m^3/sec):				
MN Bio Business Center		8	10	0.05				
Date of Emission Test:		**STACK 1**						
07/26/10		**ENTER EMISSION CONCENTRATIONS FOR STACK#1 in Column C**						
Chemical Name	**CAS or MPCA#**	Emission concentration stack#1 ug/m^3	Gas flow rate through vent stack#1 m^3/sec	Emission rate stack#1 ug/sec	Emission rate stack#1 lb/hr	Emission rate stack#1 tons/year	Total Annual Emissions (tons/year)	Cumulative Emission Rate (ug/sec)
Acetone	67-64-1	74.8	4.7000E-02	3.5156E+00	2.7902E-05	1.2221E-04	1.2221E-04	3.5156E+00
Tetrachloroethylene (Perchloroethylene)	127-18-4	489000	4.7000E-02	2.2983E+04	1.8241E-01	7.9895E-01	7.9895E-01	2.2983E+04
Trichloro-1,2,2-trifluoroethane, 1,1,2- (Freon 113)	76-13-1	3720	4.7000E-02	1.7484E+02	1.3876E-03	6.0779E-03	6.0779E-03	1.7484E+02
							8.0515E-01	

Site Data Entry Worksheet for Air Stripper Systems

Enter Site Data for up to 5 air strippers in yellow cells.

Site/Project Name:	MN Bio Business Center
Emission Test Date:	7/26/2010

Enter Height of Stack: (meters)	Enter Distance from Stack to Nearest Receptor or Property Boundary: (in meters, minimum 10)	Air Stripper#1 influent flow rate [IFR] (liter/sec)
8	10	0.03

		Air Stripper #1								
Chemical Name	**CAS or MPCA#**	Influent Groundwater Concentration [IGC] (ug/L)	Effluent Groundwater Concentration [EGC] (ug/L)	Removal Factor [RF] (dimension less)	Emission Rate [ER = IGC*IFR*RF] (ug/sec)	Emission Rate (lbs/hr)	Emissions Rate (tons/yr)	Cumulative Emission Rate (ug/sec)	Total Annual Emissions (lbs/hr)	Total Annual Emissions (tons/year)
Tetrachloroethylene (Perchloroethylene)	127-18-4	4.06E+01		1.00	1.18E+00	9.34E-06	4.09E-05	1.18E+00	9.34E-06	4.09E-05

Screening Emission Rates (SERs) and Chronic Risk Summary

Based on site inputs provided on Soil Venting Worksheet and Air Stripper Worksheet

Site/Project Name:

MN Bio Business Center

Emission Test Date:

7/26/2010

Chemical Name	CAS # or MPCA #	Chronic Noncancer tox value (ug/m3)	Chronic Cancer tox value (ug/m3)	Annual Disp. Factor ((ug/m3)/g/s)	SER for Chronic Risk (ug/s)	Site Specific Emission Rate (ug/s)	Calculated Conc at Receptor for Chronic Risk (ug/m3)	Site HQ (Noncancer)	ELCR (Cancer)
Acetone	67-64-1	3.00E+04		1230	2.44E+07	3.52E+00	4.32E-03	0.0	
Tetrachloroethylene (Perchloroethylene)	127-18-4	1.00E+02	2.00E+01	1230	1.63E+04	2.30E+04	2.83E+01	0.3	1.4E-05
Trichloro-1,2,2-trifluoroethane, 1,1,2- (Freon 113)	76-13-1			1230		1.75E+02	2.15E-01		
						Additive Risk:		**0.3**	**1.4E-05**

Screening Emission Rates (SERs) and Acute Risk Summary

Based on site inputs provided on Soil Venting Worksheet and Air Stripper Worksheet

Site/Project Name:
MN Bio Business Center

Emission Test Date:
7/26/2010

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

Chemical Name	**CAS # or MPCA #**	Acute toxcity value (ug/m3)	1-hr Disp. Factor ((ug/m3)/g/s)	SER [acute risk] (ug/s)	Site Emission Rate (ug/s)	Calculated Conc at Receptor for Acute Risk (ug/m3)	**Site HQ (Noncancer) for acute risk**
Acetone	67-64-1		3343		3.52E+00	5.15E-02	
Tetrachloroethylene (Perchloroethylene)	127-18-4	20000	3343	5.98E+06	2.30E+04	3.37E+02	0.0
Trichloro-1,2,2-trifluoroethane, 1,1,2- (Freon 113)	76-13-1		3343		1.75E+02	2.56E+00	
					Additive Risk:		**0.0**

Risk Evaluation Summary

RASS Version Used: RASS version number = 20060829 - RASS

This worksheet provides a summary of the results of the chronic and acute risk calculations based on site inputs from the Soil Venting and the Air Stripper worksheets. For both chronic and acute risk, an unacceptable risk is indicated in red if the Hazard Index exceeds 1. For chronic risk, an unacceptable risk is also indicated in red if the additive ELCR exceeds 10-5. This worksheet also indicates if levels of any acute developmental toxicants (which are considered ceiling values and should never be exceeded) pose an unacceptable risk.

CHRONIC RISK SUMMARY	
Number of Compounds with Hazard Quotient >1:	#VALUE!
Number of Compounds with Cancer Risk > 10^{-5}	#VALUE!
Noncancer Hazard Index:	0.3
Excess Lifetime Cancer Risk (ELCR):	1.4E-05

ACUTE RISK SUMMARY	
Number of Compounds with Hazard Quotient >1:	#VALUE!
Hazard Index:	0.0

Ceiling Values Exceeded?	
Arsenic	NO
Benzene	NO
Carbon disulfide	NO
Carbon tetrachloride	NO
Cellosolve Acetate	NO
Chloroform	NO
Ethoxyethanol, 2-	NO
Ethylbenzene	NO
Ethyl chloride	NO
Mercury	NO
Methoxyethanol, 2-	NO
Propylene oxide	NO
Trichloroethylene	NO