November 25, 2009

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

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

Dear Mr. Timm and Mr. Olson:

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

Introduction

This report documents the monthly DPE system operational and analytical data from September 4, 2009, through October 16, 2009, as well as quarterly groundwater monitoring data from samples collected on September 28, and October 1, 2009. The DPE system well locations and equipment layout are provided in Figures 2 and 3, respectively. A system operation and maintenance summary table is included as Table 1.

On October 15, the DPE system was switched from continuous operation at DPE-1, to sequential operation at all of the DPE wells. Therefore, DPE emissions samples were collected on October 15, 2009, during DPE-1 operation, and on October 16, 2009, after the system was switched to operate on all of the DPE wells. 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 wells, consists of a composite Summa canister which utilizes a 6-hour flow control valve.

System Operational Results

Through October 15, 2009, the DPE system removed approximately 1,152 pounds of total volatile organic compounds (VOCs) and 994 pounds of tetrachloroethene (PCE) (see Figure 4 and Table 2). The mass of total VOCs and PCE removed this period was 269 pounds and 253 pounds, respectively. During operation on DPE-1, the concentrations of VOCs decreased from 14,613,880 micrograms per cubic meter (ug/m^3) on April 9, 2009, (the baseline emissions sampling date) to 494,779 ug/m^3 of total VOCs on October 15, 2009, a decrease of 96.6 percent

(See Figure 5). PCE concentrations decreased from 11,600,000 ug/m^3 to 396,000 ug/m^3, a decrease of 96.6 percent. After switching the DPE system to operate sequentially at each DPE well on October 16, 2009, the total VOC and PCE concentrations increased to 608,840 and 571,000 ug/m^3, respectively. Emissions analytical data is provided in Table 3 and system operational data tables and field data sheets are provided in Attachment A. The emissions analytical reports are included in Attachment B.

The MPCA's Remediation Risk Analysis Screening Spreadsheet (RRASS) spreadsheet was used to evaluate the emissions rates from the DPE and air stripper stacks on the Property during system operation on DPE-1 on October 15, 2009, and after the system was switched to operate sequentially at each DPE wells on October 16, 2009. The site specific emissions rates were 5,946 ug per second (ug/s) while operating on DPE-1, and 8,571 while operating sequentially at each DPE well. Both of these site specific emissions rates were below the MPCA screening emissions rate (SER) for chronic risk of 16,300 ug/s, and the MPCA SER for acute risk of 5,980,000 ug/s. 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 0.22 pounds on October 15, 2009. VOCs were not detected in the effluent groundwater sample. 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 elevation data shows that continuous operation at DPE-1 has been effective in lowering the water table at all of the DPE and monitoring wells. Figure 6 includes hydrographs of each of the DPE and monitoring wells. The groundwater elevation data is provided in Table 7. Well construction information is provided in Table 8.

Groundwater Monitoring Results

Baseline groundwater samples were collected at the DPE and monitoring wells for laboratory analysis in December 2008, prior to operation of the DPE system (see Figure 7). The first quarterly groundwater sampling event was completed in September 2009, after startup of the DPE system (see Figure 8). In December 2008, the PCE groundwater concentrations at all of the wells ranged from 2.4 micrograms per liter (ug/L) to 161,000 ug/L. After approximately 3 months of DPE system operation at DPE-1, the PCE concentration range at all of the wells decreased to 4 ug/L to 32,000 ug/L. The PCE concentrations decreased at all of the DPE and monitoring wells except at MW-17 and MW-20 (See Table 9 and Figure 9). The concentration of PCE at DPE-1 decreased 96%. PCE concentrations increased at MW-17 and MW-20. 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.

The groundwater samples were also analyzed forthe following natural attenuation parameters: dissolved calcium, dissolved organic carbon, dissolved iron, dissolved magnesium, methane,

nitrate as N, sulfate, and sulfide (See Table 11). Data was also collected for the following field parameters: temperature, conductivity, pH, oxidation reduction potential, dissolved oxygen, and headspace photo-ionization detector readings for each well (See Table 12).

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.
    - Through October 15, 2009, system operation on extraction well DPE-1 removed 1,152 pounds of total VOCs and 994 pounds of PCE from the subsurface. Approximately 269 pounds of total VOCs and 253 pounds of PCE have been removed from the subsurface this period.
    - DPE-1 emissions concentrations of VOCs and PCE decreased 96.7 percent through October 15, 2009.
- Air emissions treatment is not required at the Property because the site specific emissions rates on October 15 (continuous DPE-1 operation) and October 16 (sequential operation at each DPE well), 2009, were below the MPCA SERs for chronic and acute risk.
- The groundwater treatment system is operating as designed by reducing the groundwater discharge concentrations of VOCs to below the discharge criteria of the City of Rochester's Water Reclamation Plant.
- Continuous DPE system operation at DPE-1 has effectively lowered the water table at the Property.
- Continuous DPE system operation at DPE-1 has effectively decreased the concentrations of PCE in the groundwater at all of the DPE wells and at MW-14, MW-15, MW-16, MW-18, and MW-19.

Recommendations

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

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. Landmark recommends discontinuing laboratory analysis for natural attenuation parameters until monitored natural attenuation is considered at the site as a remedial action.

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

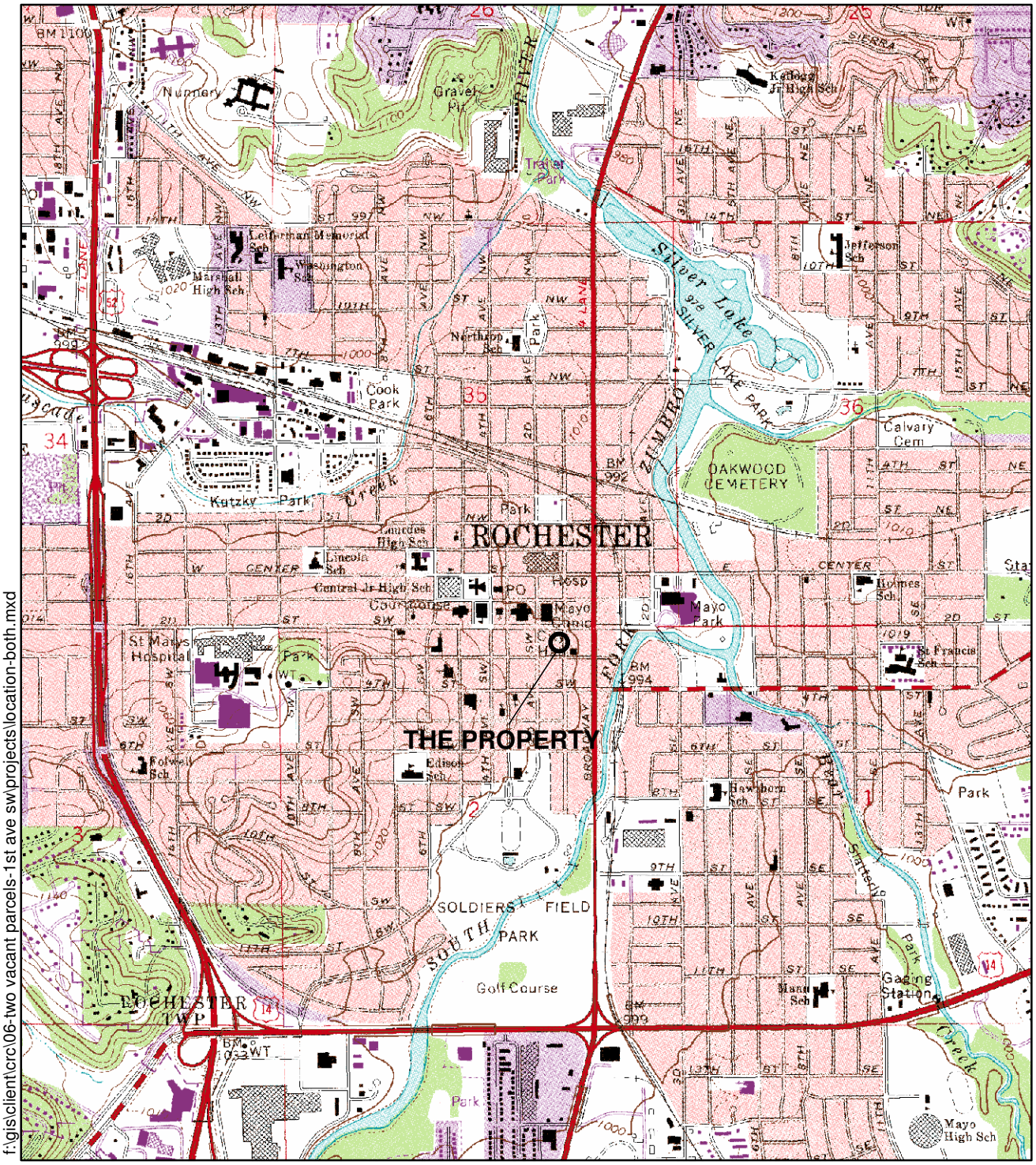
Sincerely,

Jason D. Skramstad, P.E.

Cc: Terry Spaeth, City of Rochester

F:\PROJECTS\Crc-City of Rochester\Monthly System Reports\20091120 DPE GW\20091125 Monthly System Report - Final

Figures



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

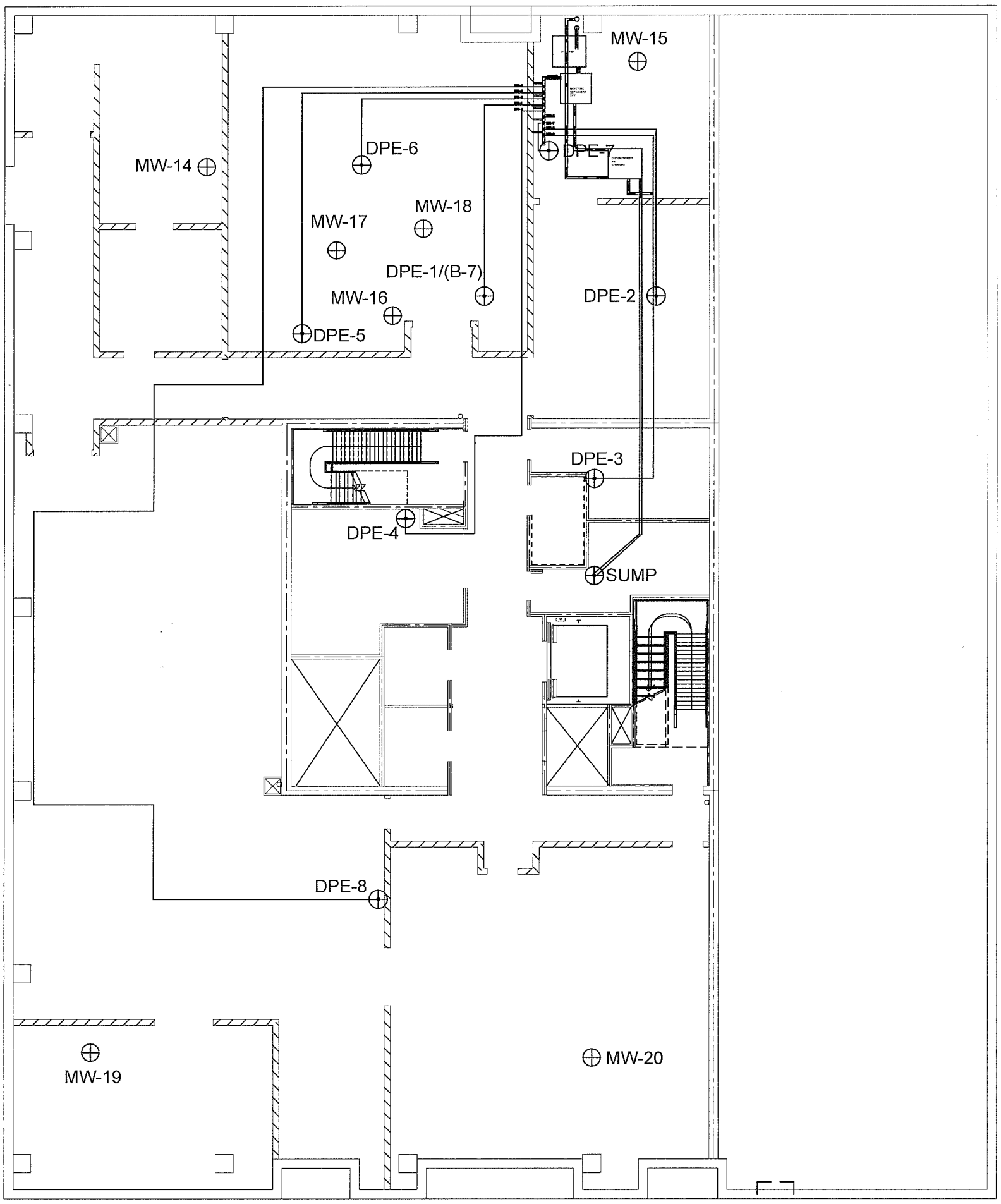
Source: Rochester, Minnesota Topographic Quadrangle, 7.5-Minute Series

N

2,000 1,000 0 2,000 Feet

FIGURE 1

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



BASEMENT FLOOR PLAN

LEGEND

⊕ DPE, Monitoring Well, or Sump Location

——— DPE Piping Location

——— Property Boundary

N

20 feet
SCALE

BASEDRAWINGS PROVIDED BY HGA
F:/Projects/CRC/CAD/Groundwater Data/20090128 Well Locations.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

DPE SKID

MW-15

AIR/WATER

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

MOISTURE SEPARATOR SKID

D.P.E. ROOM
017
383 SF
19'-2" x 20'-0"

DPE-7

GROUNDWATER AIR STRIPPER

DPE SYSTEM GROUNDWATER DISCHARGE PIPING TO SANITARY SEWER

DISCHARGE FROM ELEVATOR PIT SUMP

MECHANICAL ROOM

NOTES:

1. Air emissions generated from the DPE system shall be discharge to the atmosphere after treatment. Emissions treatment system piping shall be installed above the basement slab consist of 4-inch SCH 80 PVC pipe.
2. Groundwater generated from the DPE system shall be discharged to the sanitary sewer after treatment by an air stripper. Groundwater treatment system piping shall be installed above the basement slab consist of 2-inch SCH 80 PVC pipe.
3. The groundwater and air emissions treatment systems piping shall be installed and pressure tested as described in the technical specifications and proposed drawings.
4. The groundwater and air emissions treatment systems piping shall be installed as shown on the proposed drawings.
5. DPE and air stripper air emissions each have a dedicated 4-inch diameter galvanized steel riser pipe extending from the DPE Room to the building's second level ceiling, where the piping will exit through the west wall of the building to the atmosphere.

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/20090423 DPE Room.dwg

Rev	Date	By	Description
1	9-19-2008	JDS	RFP-1 FINAL REVISION
2	4-23-09	JDS	GWTS & Emissions TMT

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

FIGURE 3
DPE ROOM LAYOUT

219 AND 223 FIRST AVENUE S.W.
ROCHESTER, MINNESOTA

Landmark Project Number: CRC		
Drawn: JDS	Checked: JDS	Designed: JDS
Scale: 1:3	Date: 7/15/08	Revision: 1
Drawing Number: .	Sheet 1B Of	Sheets 7

FIGURE 4

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

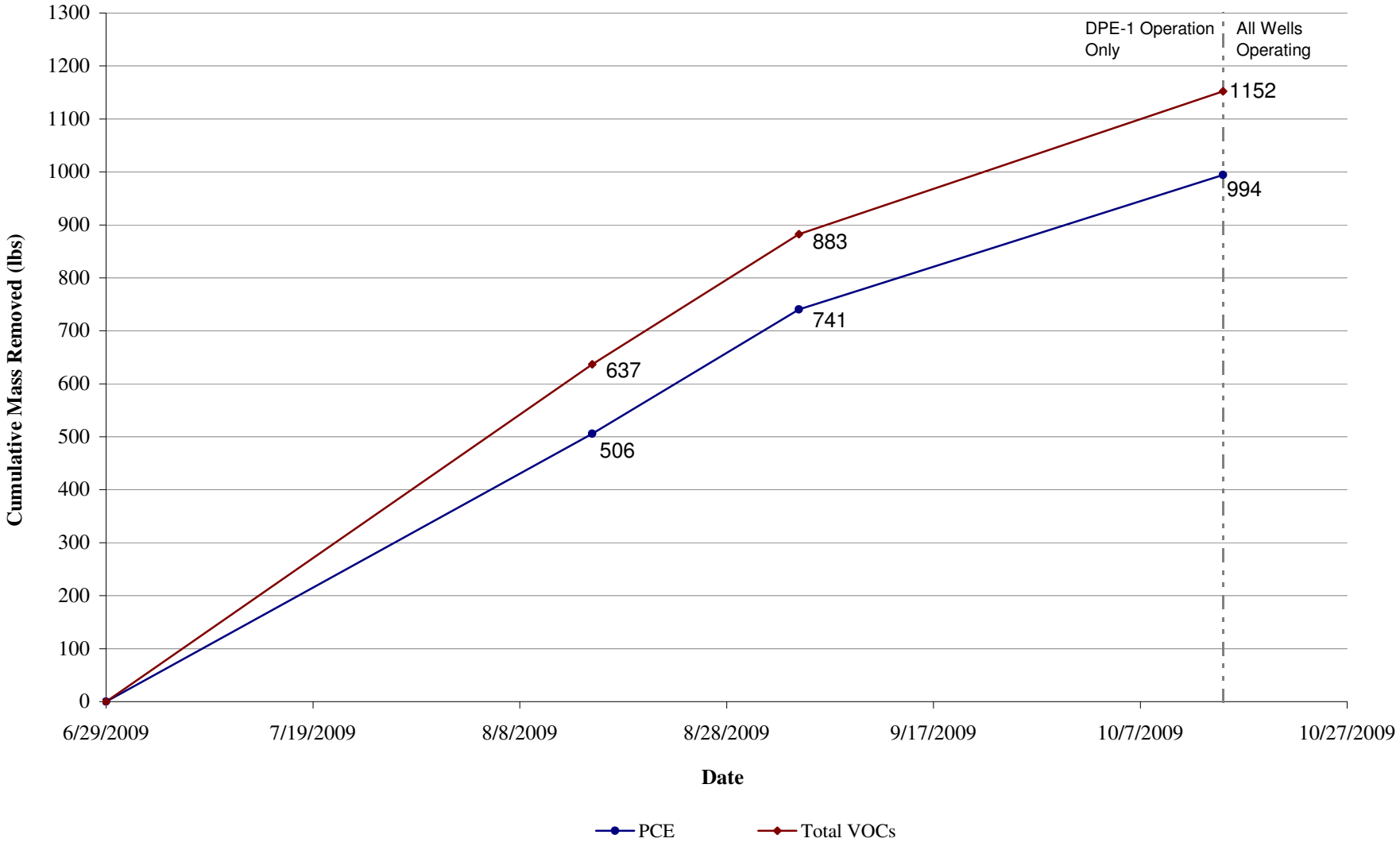


FIGURE 5

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

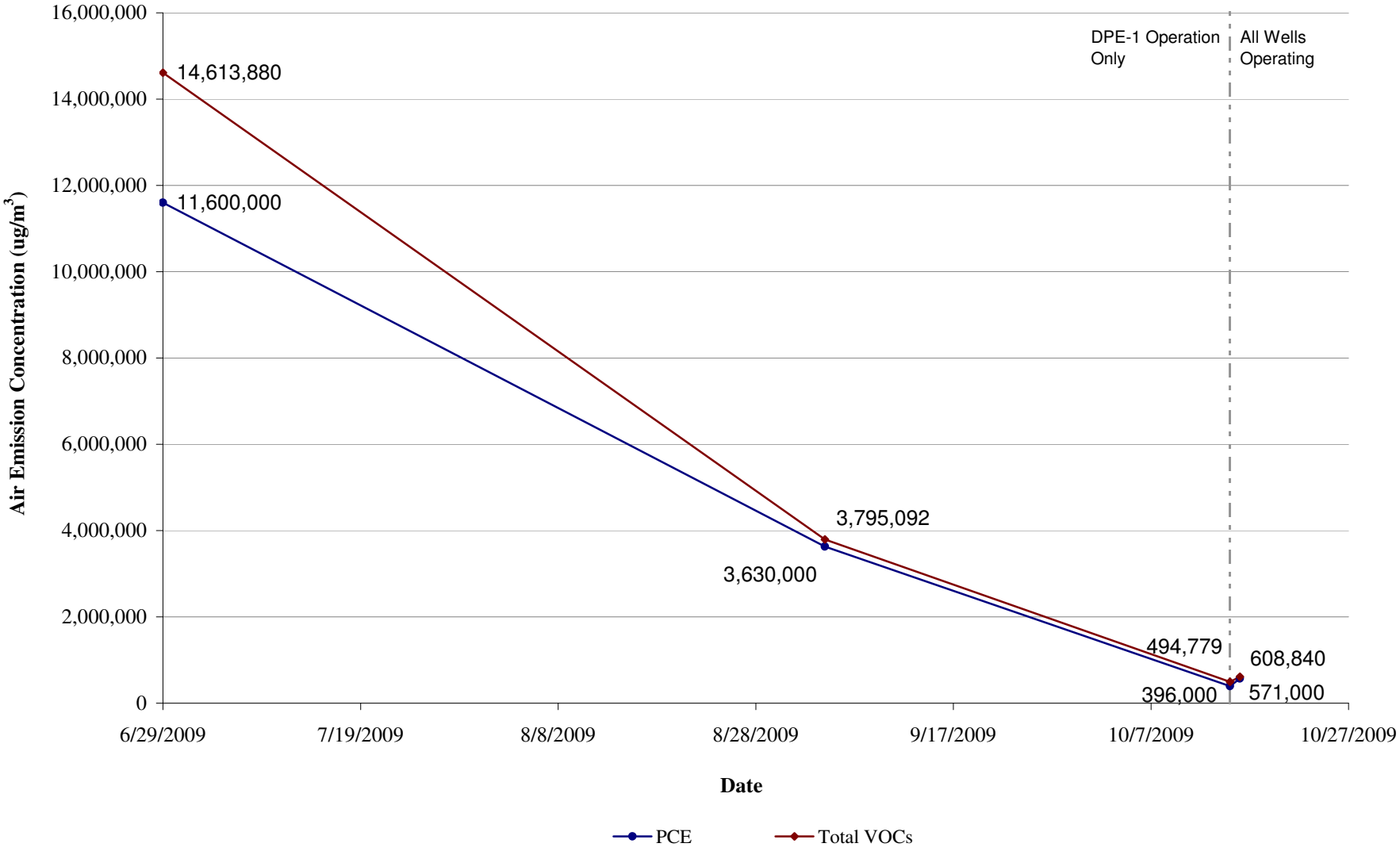
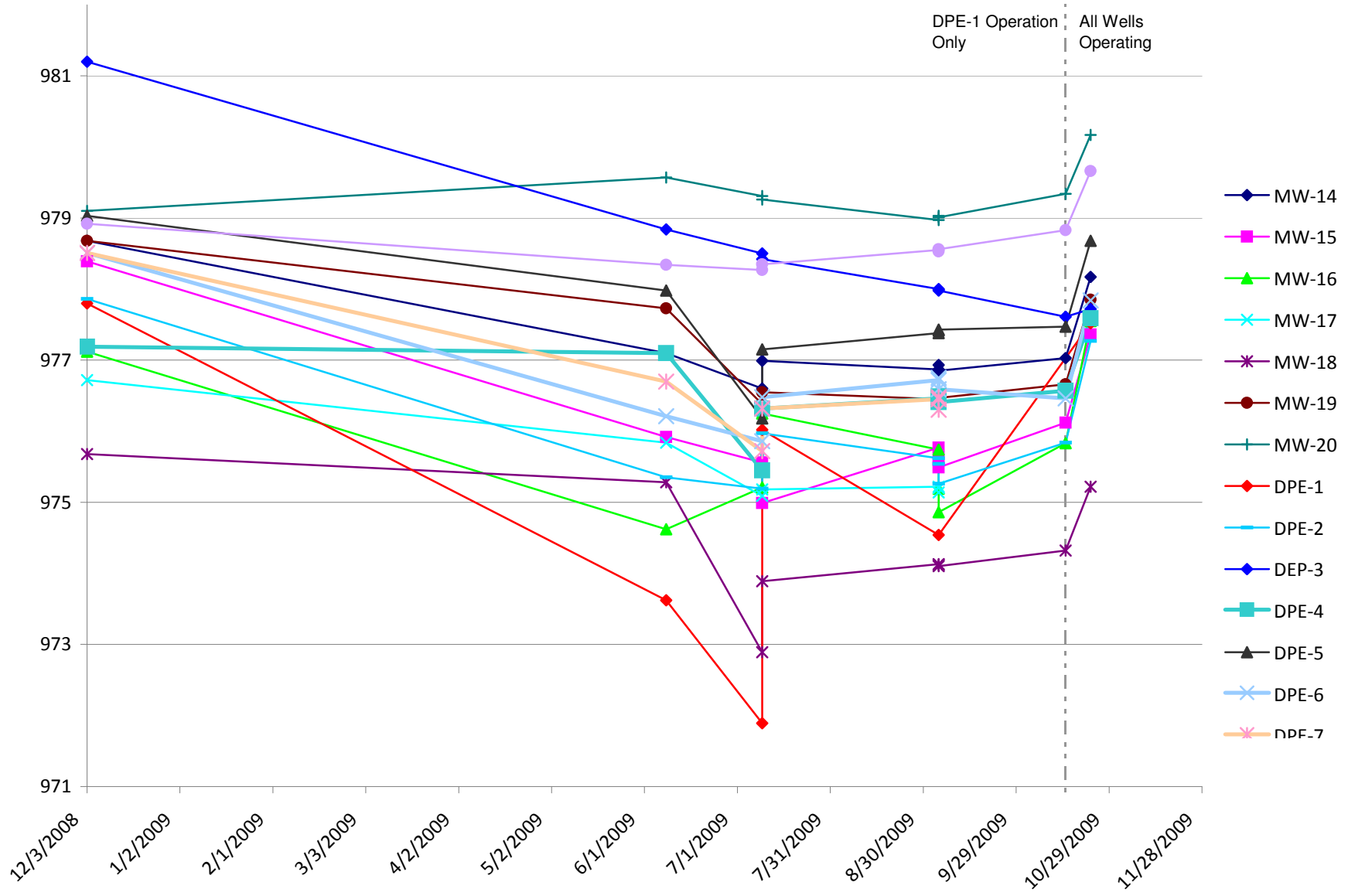
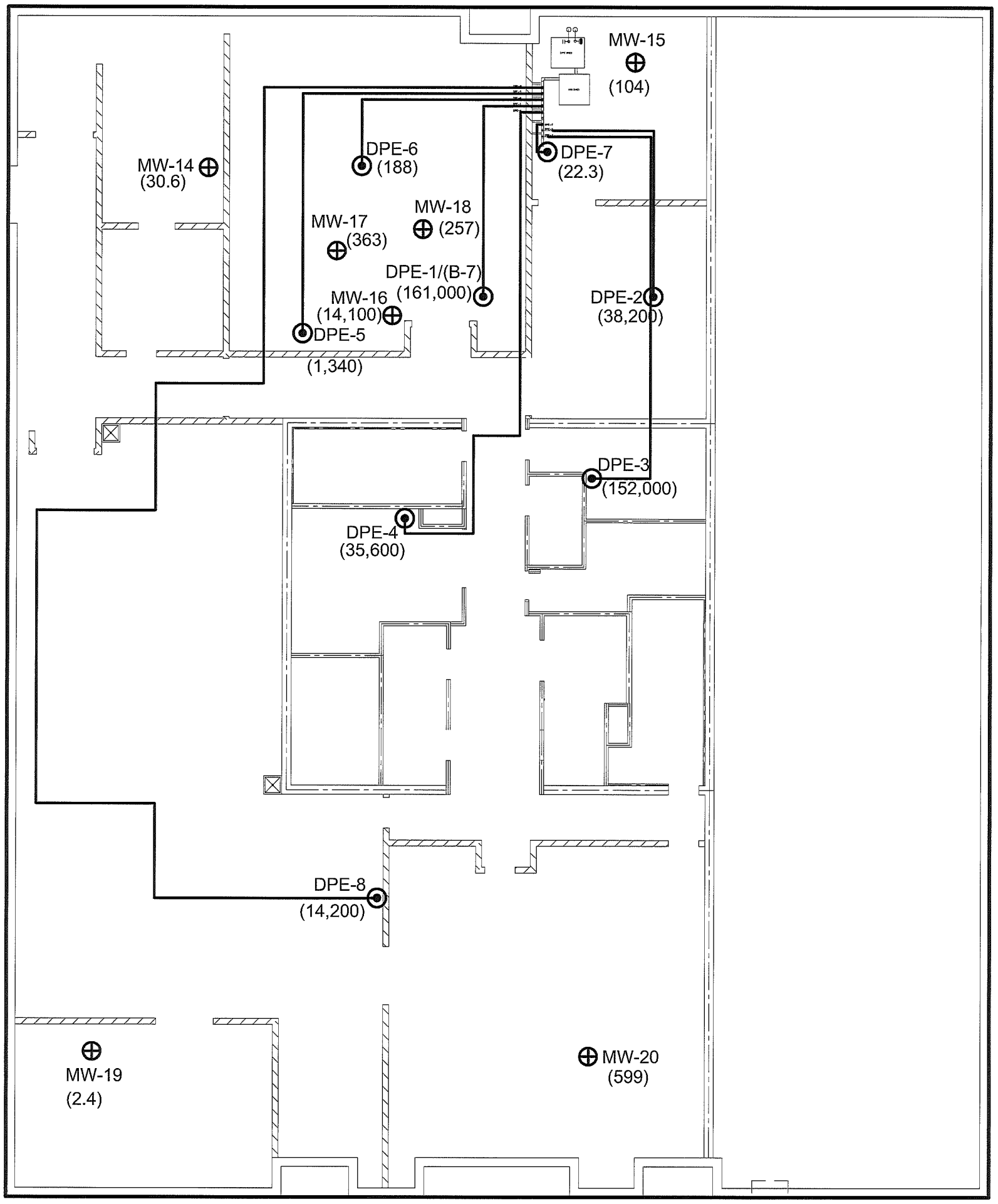


FIGURE 6

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





BASEMENT FLOOR PLAN

LEGEND

- DPE Well Location
- Monitoring Well Location
- (35,600) PCE Concentration in ug/L
- DPE Piping Location
- Property Boundary

N

20 feet
SCALE

BASEDRAWINGS PROVIDED BY HGA
F:/Projects/CRC/CAD/Groundwater Data/20090128 Well Locations.dwg

Rev	Date	By	Description

LANDMARK ENVIRONMENTAL, LLC
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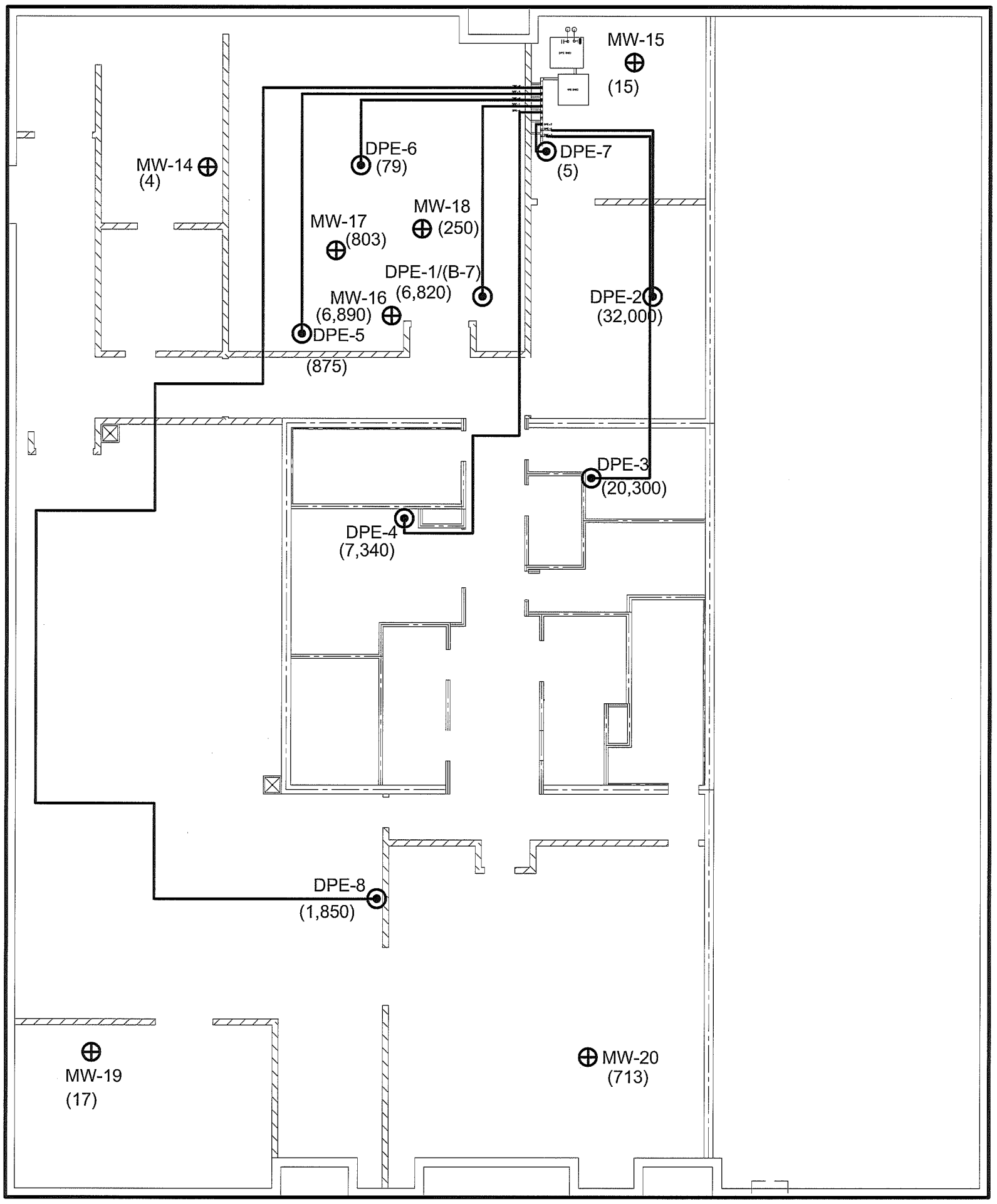
Bloomington, MN 55431

FIGURE 7

DECEMBER 2008 -
PCE GROUNDWATER CONCENTRATIONS
221 FIRST AVENUE S.W.
ROCHESTER, MINNESOTA

Landmark Project Number: CRC			
Drawn: JDS	Checked: JDS	Designed: JDS	
Scale: .	Date: 3/27/2009	Revision:	
Drawing Number: .		Sheet . Of .	Sheets .



BASEMENT FLOOR PLAN

LEGEND

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

N

20 feet
SCALE

BASEDRAWINGS PROVIDED BY HGA
F:/Projects/CRC/CAD/Groundwater Data/20090128 Well Locations.dwg

Rev	Date	By	Description

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

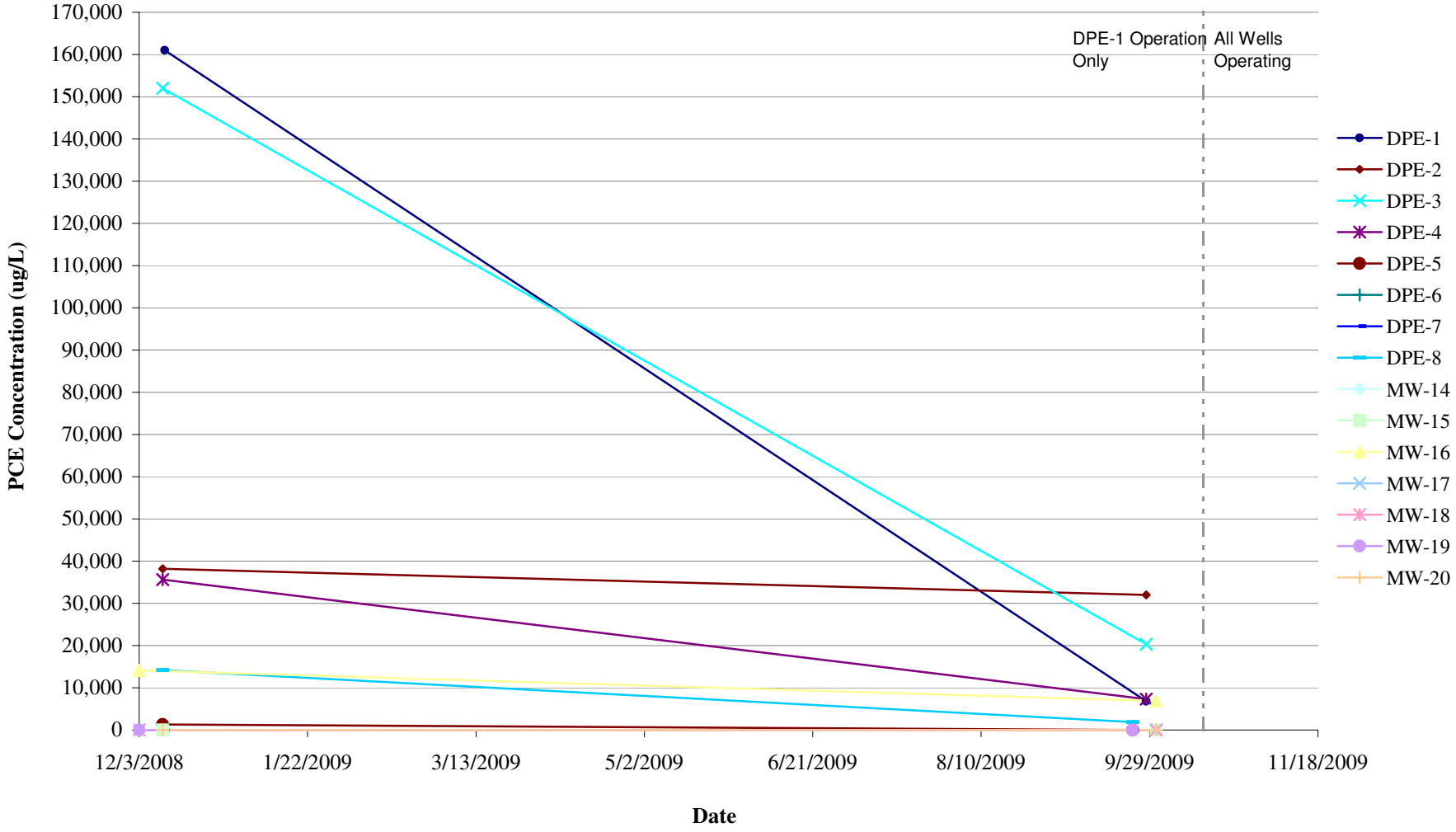
FIGURE 8

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

Landmark Project Number: CRC		
Drawn: JDS	Checked: JDS	Designed: JDS
Scale: .	Date: 11/23/2009	Revision:
Drawing Number: .	Sheet . Of .	Sheets .

FIGURE 9

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



Tables

TABLE 1

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

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

TABLE 1

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

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

TABLE 1

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

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

TABLE 1

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

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

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

TABLE 2

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

Monitoring Period					Total VOCs			PCE		
Start Date	End Date	DPE Pump Hours	Hours Per Period	Total Flow Rate (scfm)	Concentration (ug/m^3)	Pounds Per Period	Cumulative pounds	Concentration (ug/m^3)	Pounds Per Period	Cumulative Pounds
---	6/29/2009	0	0	0	0	0	0	0	0	0
6/29/2009	8/15/2009	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	957	478.5	36.1	3,795,092	245.74	882.71	3,630,000	235.05	740.66
9/4/2009	---	1428	471	36.1	3,795,092	241.89	1,124.60	3,630,000	231.37	972.02
---	10/15/2009	1899	471	31.6	494,779	27.60	1,152.21	396,000	22.09	994.12

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.

TABLE 3

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

Sample ID	DPE-EFFLUENT-531	DPE-EFFLUENT-253	DPE-EFFLUENT-0680	DPE EXHAUST (#842)
Wells Operating	All DPE Wells	DPE-1	DPE-1	DPE-1
Sample Collection Method	6-hr Composite	Grab	Grab	Grab
Collected Date	10/16/2009 12:15	10/15/2009 14:45	09/04/2009 10:19	04/09/2009 19:53
1,1,1-Trichloroethane	**81.7**	**4.2**	**127**	**4,450**
1,1,2,2-Tetrachloroethane	<2.2	<2.1	<2.1	<2480
1,1,2-Trichloroethane	<1.7	<1.6	<1.6	<1950
1,1,2-Trichlorotrifluoroethane	**172**	**97,900**	**153,000**	**2,940,000**
1,1-Dichloroethane	<1.3	<1.2	<1.2	<1450
1,1-Dichloroethene	**13.9**	<1.2	15.0	<1440
1,2,4-Trichlorobenzene	<1.5	<1.5	<1.5	<1760
1,2,4-Trimethylbenzene	<3.8	<3.7	**10.2**	<4440
1,2-Dibromoethane (EDB)	<2.5	<2.4	<2.4	<2840
1,2-Dichlorobenzene	<1.8	<1.8	<1.8	<2130
1,2-Dichloroethane	<1.3	<1.2	<1.2	<1450
1,2-Dichloropropane	<1.4	<1.4	<1.4	<1670
1,3,5-Trimethylbenzene	<3.8	<3.7	**5.0**	<4440
1,3-Butadiene	<0.69	<0.67	<0.67	<798
1,3-Dichlorobenzene	<1.8	<1.8	**6.0**	<2130
1,4-Dichlorobenzene	<1.8	<1.8	**8.6**	<2130
2-Butanone (MEK)	**12.2**	<0.89	**15.8**	<1060
2-Hexanone	<1.3	<1.2	<1.2	<1470
2-Propanol	**4.9**	<3.7	<3.7	<4440
4-Ethyltoluene	<3.8	<3.7	**6.0**	<4440
4-Methyl-2-pentanone (MIBK)	<1.3	<1.2	<1.2	<1470
Acetone	**37,000**	**501**	**7,510**	<852
Benzene	**1.1**	**1.5**	**2.3**	<1150
Bromodichloromethane	<2.2	<2.1	<2.1	<2480
Bromoform	<3.2	<3.1	<3.1	<3730
Bromomethane	<1.2	<1.2	<1.2	<1400
Carbon disulfide	<0.97	<0.93	**5.9**	<1120
Carbon tetrachloride	<2.0	<1.9	<1.9	<2310
Chlorobenzene	<1.4	<1.4	<1.4	<1670
Chloroethane	<0.83	<0.80	<0.80	<958
Chloroform	**25.8**	<1.5	**21.5**	<1760
Chloromethane	<0.65	<0.62	<0.62	<745
cis-1,2-Dichloroethene	**257**	**21.5**	**2,620**	**36,300**
cis-1,3-Dichloropropene	<1.4	<1.4	<1.4	<1630
Cyclohexane	<1.0	<1.0	**3.5**	<1210

TABLE 3

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

Sample ID	DPE-EFFLUENT-531	DPE-EFFLUENT-253	DPE-EFFLUENT-0680	DPE EXHAUST (#842)
Wells Operating	All DPE Wells	DPE-1	DPE-1	DPE-1
Sample Collection Method	6-hr Composite	Grab	Grab	Grab
Collected Date	10/16/2009 12:15	10/15/2009 14:45	09/04/2009 10:19	04/09/2009 19:53
Dibromochloromethane	<2.6	<2.5	<2.5	<3020
Dichlorodifluoromethane	<1.5	**2.8**	<1.5	**2,230**
Dichlorotetrafluoroethane	<2.2	<2.1	<2.1	**3,400**
Ethanol	**8.9**	**8.4**	**5.7**	<3370
Ethyl acetate	<1.1	<1.1	<1.1	<1300
Ethylbenzene	**7.9**	<1.3	<1.3	<1560
Hexachloro-1,3-butadiene	<3.4	<3.3	<3.3	<3900
m&p-Xylene	**25.0**	**2.6**	**14.2**	<3120
Methylene Chloride	<1.1	**276**	<1.1	<1260
Methyl-tert-butyl ether	<1.1	<1.1	<1.1	<1300
Naphthalene	**5.6**	<4.0	**4.2**	**10,100**
n-Heptane	<1.3	<1.2	**2.6**	<1470
n-Hexane	**2.1**	**35.4**	**3.4**	<1280
o-Xylene	**7.5**	<1.3	**4.8**	<1560
Propylene	<0.54	<0.52	<0.52	<621
Styrene	<1.3	<1.3	<1.3	<1540
Tetrachloroethene	**571,000**	**396,000**	**3,630,000**	**11,600,000**
Tetrahydrofuran	**36.2**	<0.89	**31.1**	<1060
Toluene	**17.6**	**10.3**	**14.4**	<1370
trans-1,2-Dichloroethene	<1.2	<1.2	**4.2**	<1440
trans-1,3-Dichloropropene	<1.4	<1.4	<1.4	<1630
Trichloroethene	**153**	**13.6**	**1,640**	**17,400**
Trichlorofluoromethane	<1.7	**1.7**	**2.2**	<1950
Vinyl acetate	**7.4**	<1.1	**8.7**	<1260
Vinyl chloride	<0.80	<0.77	<0.77	<923
Total VOCs	**608,840**	**494,779**	**3,795,077**	**14,603,780**

Notes:
Bold: parameter detected above the reporting limit.

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	61710	70	**61780**	16300	5980000
10/15/2009	DPE-1	Tetrachloroethylene	396,000	5940	6	5946	16300	5980000
10/16/2009	All Wells	Tetrachloroethylene	571,000	8565	6	8571	16300	5980000

Notes:

SERs: MPCA Screening Emissions Rates

61780 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		Days per Period	Hours per Period	Flow Meter Reading (gallons)	Gallons Treated During Period	Average Flow Rate (gpm)	Average Flow Rate (liter/sec)	Total VOCs		% Reduction	Mass Removed per Period (lbs)	Cumulative Mass Removed (lbs)	Addition to Emission Rate (lbs/day)
Start Date[1]	End Date							Influent Conc. (ug/L)	Effluent Conc. (ug/L)				
4/9/2009[2]	4/9/2009	0	2	119	51	0.4	0.027	176,343	NA	NA	NA	NA	NA
6/4/2009	6/4/2009[3]	0	2	192	73	0.6	0.038	4,630	8,991	-94	NA	NA	NA
6/4/2009	7/9/2009	11	264	16,115	15,923	1.0	0.063	1,547	479	69	0.14	0.14	0.01
7/9/2009	9/4/2009	57	1368	38,299	22,184	0.3	0.017	191	20	90	0.03	0.17	0.001
9/4/2009	10/15/2009	41	984	62,643	24,344	0.4	0.026	238	0	100	0.05	0.22	0.001

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.

TABLE 6

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

Sample ID	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent	AS-INFLUENT	AS-EFFLUENT	AS INFLUENT	AS EFFLUENT[2]	DPE Discharge[1]
Collected Date	10/15/2009 14:50	10/15/2009 14:50	9/4/2009 10:55	9/4/2009 10:55	7/9/2009 12:20	7/9/2009 12:25	06/04/2009 17:00	06/04/2009 17:25	04/09/2009 16:35
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	**29.4**
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,1,2-Trichloroethane	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
1,1,2-Trichlorotrifluoroethane	**1.4**	<1.0	**1.2**	<1.0	**10.4**	<1.0	**53.7**	<1.0	**7860**
1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,1-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,1-Dichloropropene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,2,4-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	**26.0**
1,2-Dibromo-3-chloropropane	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
1,2-Dibromoethane (EDB)	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,2-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	**7.1**
1,3-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,3-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,4-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	**7.8**
2,2-Dichloropropane	<4.0	<4.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
2-Butanone (MEK)	**5.4**	<4.0	**13.5**	**19.8**	<20.0	**82.1**	<200	**1670**	**392**
2-Chloroethylvinyl ether	<10.0	<10.0	<10.0	<10.0	<50.0	<10.0	<1250	<25.0	<50.0
2-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	**51.0**
2-Hexanone	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
2-Methylnaphthalene	<5.0	<5.0	<5.0	<5.0	<25.0	<5.0	<250	<5.0	<25.0
4-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
4-Methyl-2-pentanone (MIBK)	<5.0	<5.0	<5.0	<5.0	<25.0	<5.0	<250	<5.0	<25.0
Acetone	<10.0	<10.0	<10.0	<10.0	<50.0	**68.7**	<500	**987**	<50.0
Acrolein	<40.0	<40.0	<40.0	<40.0	<200	<40.0	<2000	<40.0	<200
Acrylonitrile	<10.0	<10.0	<10.0	<10.0	<50.0	<10.0	<500	<10.0	<50.0
Allyl chloride	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Benzene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Bromobenzene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Bromochloromethane	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Bromodichloromethane	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Bromoform	<8.0	<8.0	<8.0	<8.0	<40.0	<8.0	<400	<8.0	<40.0
Bromomethane	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Carbon disulfide	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Carbon tetrachloride	<4.0	<4.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Chlorobenzene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Chloroethane	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0

TABLE 6

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

Sample ID	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent	AS-INFLUENT	AS-EFFLUENT	AS INFLUENT	AS EFFLUENT[2]	DPE Discharge[1]
Collected Date	10/15/2009 14:50	10/15/2009 14:50	9/4/2009 10:55	9/4/2009 10:55	7/9/2009 12:20	7/9/2009 12:25	06/04/2009 17:00	06/04/2009 17:25	04/09/2009 16:35
Chloroform	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Chloromethane	<1.0	<1.0	<1.0	<1.0	**63.3**	**76.4**	<50.0	<1.0	<5.0
Chloroprene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
cis-1,2-Dichloroethene	**1.5**	<1.0	**1.5**	<1.0	**13.0**	<1.0	**62.9**	<1.0	**206**
cis-1,3-Dichloropropene	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Dibromomethane	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Dichlorodifluoromethane	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Dichlorofluoromethane	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Diethyl ether (Ethyl ether)	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Hexachloro-1,3-butadiene	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Iodomethane	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Isopropylbenzene (Cumene)	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
m&p-Xylene	<2.0	<2.0	<2.0	<2.0	<10.0	<2.0	<100	<2.0	<10.0
Methylene Chloride	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Methyl-tert-butyl ether	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Naphthalene	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
n-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	5.0
n-Propylbenzene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
o-Xylene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
p-Isopropyltoluene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
sec-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Styrene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
tert-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Tetrachloroethene	**214**	<1.0	**175**	<1.0	**1460**	<1.0	**3970**	**33.8**	**167000**
Tetrahydrofuran	**15.7**	<10.0	<10.0	<10.0	<50.0	**252**	**543**	**6300**	**600**
Toluene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
trans-1,3-Dichloropropene	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	**159**
Trichlorofluoromethane	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Vinyl acetate	<20.0	<20.0	<20.0	<20.0	<100	<20.0	<1000	<20.0	<100
Vinyl chloride	<0.40	<0.40	<0.40	<0.40	<2.0	<0.40	<20.0	<0.40	<2.0
Xylene (Total)	<3.0	<3.0	<3.0	<3.0	<15.0	<3.0	<150	<3.0	<15.0
Total VOC Concentration	**238**	**0**	**191.2**	**19.8**	**1,546.7**	**479.2**	**4,566.7**	**8,990.8**	**176,338.3**

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

TABLE 7

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

Well ID	Date Measured	Top of Casing Elevation[1,2]	Depth to Groundwater (feet)	Groundwater Elevation[3]	System Status
MW-14	12/3/2008	989.50	10.82	978.68	pre-system installation
MW-14	6/8/2009	989.50	12.40	977.10	pre-system startup
MW-14	7/9/2009	989.50	12.90	976.60	DPE system on DPE-1
MW-14	7/9/2009	989.50	12.51	976.99	DPE system temporarily off
MW-14	9/4/2009	989.50	12.63	976.87	DPE system on
MW-14	9/4/2009	989.50	12.57	976.93	DPE system on after replacing inlet screen
MW-14	9/4/2009	989.50	12.65	976.85	DPE system on after replacing inlet filter
MW-14	10/15/2009	989.50	12.47	977.03	DPE system on DPE-1
MW-14	10/23/2009	989.50	11.33	978.17	DPE system off
MW-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-16	12/3/2008	989.44	12.32	977.12	pre-system installation
MW-16	6/8/2009	989.44	14.82	974.62	pre-system startup
MW-16	7/9/2009	989.44	14.23	975.21	DPE system on DPE-1
MW-16	7/9/2009	989.44	13.19	976.25	DPE system temporarily off
MW-16	9/4/2009	989.44	13.70	975.74	DPE system on
MW-16	9/4/2009	989.44	14.25	975.19	DPE system on after replacing inlet screen
MW-16	9/4/2009	989.44	14.58	974.86	DPE system on after replacing inlet filter
MW-16	10/15/2009	989.44	13.61	975.83	DPE system on DPE-1
MW-16	10/23/2009	989.44	11.89	977.55	DPE system off
MW-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-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

TABLE 7

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

Well ID	Date Measured	Top of Casing Elevation[1,2]	Depth to Groundwater (feet)	Groundwater Elevation[3]	System Status
MW-18	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-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-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
DPE-1	12/3/2008	991.46	13.66	977.80	pre-system installation
DPE-1	6/8/2009	992.40	18.78	973.62	pre-system startup
DPE-1	7/9/2009	992.40	20.51	971.89	DPE system on DPE-1
DPE-1	7/9/2009	992.40	16.38	976.02	DPE system temporarily off
DPE-1	9/4/2009	992.40	na		DPE system on DPE-1
DPE-1	9/4/2009	992.40	na		DPE-1 on after replacing inlet screen
DPE-1	9/4/2009	992.40	17.86	974.54	DPE-1 on after replacing inlet filter
DPE-1	10/15/2009	992.40	na		DPE system on DPE-1
DPE-1	10/23/2009	992.40	14.88		DPE system off
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

TABLE 7

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

Well ID	Date Measured	Top of Casing Elevation[1,2]	Depth to Groundwater (feet)	Groundwater Elevation[3]	System Status
DPE-2	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-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-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-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-6	12/3/2008	991.44	12.93	978.51	pre-system installation
DPE-6	6/8/2009	992.40	16.19	976.21	pre-system startup
DPE-6	7/9/2009	992.40	16.54	975.86	DPE system on DPE-1
DPE-6	7/9/2009	992.40	15.92	976.48	DPE system temporarily off
DPE-6	9/4/2009	992.40	15.68	976.72	DPE system on DPE-1
DPE-6	9/4/2009	992.40	15.65	976.75	DPE-1 on after replacing inlet screen
DPE-6	9/4/2009	992.40	15.81	976.59	DPE-1 on after replacing inlet filter
DPE-6	10/15/2009	992.40	15.94	976.46	DPE system on DPE-1
DPE-6	10/23/2009	992.40	14.56	977.84	DPE system off

TABLE 7

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

Well ID	Date Measured	Top of Casing Elevation[1,2]	Depth to Groundwater (feet)	Groundwater Elevation[3]	System Status
DPE-7	12/3/2008	991.47	12.96	978.51	pre-system installation
DPE-7	6/8/2009	993.48	16.78	976.70	pre-system startup
DPE-7	7/9/2009	993.48	17.76	975.72	DPE system on DPE-1
DPE-7	7/9/2009	993.48	17.16	976.32	DPE system temporarily off
DPE-7	9/4/2009	993.48	17.03	976.45	DPE system on DPE-1
DPE-7	9/4/2009	993.48	17.00	976.48	DPE-1 on after replacing inlet screen
DPE-7	9/4/2009	993.48	17.18	976.30	DPE-1 on after replacing inlet filter
DPE-7	10/15/2009	993.48	16.80	976.68	DPE system on DPE-1
DPE-7	10/23/2009	993.48	15.68	977.80	DPE system off
DPE-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
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

Notes:

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

TABLE 8

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

MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

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

Notes:

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

TABLE 9

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

Sample ID	Date	PCE Conc. (ug/L)	% Change
MW-14	12/3/2008	30.6	
MW-14	10/1/2009	4.2	-86
MW-15	12/10/2008	104	
MW-15	10/1/2009	15.7	-85
MW-16	12/3/2008	14,100	
MW-16	10/1/2009	6,890	-51
MW-17	12/3/2008	363	
MW-17	10/1/2009	803	121
MW-18	12/3/2008	257	
MW-18	10/1/2009	250	-3
MW-19	12/3/2008	2.4	
MW-19	9/24/2009	17.4	625
MW-20	12/10/2008	599	
MW-20	10/1/2009	713	19
DPE-1	8/7/2008	157,000	
DPE-1	12/10/2008	161,000	
DPE-1	9/28/2009	6,820	-96
DPE-2	12/10/2008	38,200	
DPE-2	9/28/2009	32,000	-16
DPE-3	12/10/2008	152,000	
DPE-3	9/28/2009	20,300	-87
DPE-4	12/10/2008	35,600	
DPE-4	9/28/2009	7,340	-79
DPE-5	12/10/2008	1,340	
DPE-5	9/24/2009	875	-35
DPE-6	12/10/2008	188	
DPE-6	9/24/2009	79.3	-58
DPE-7	12/10/2008	22.3	
DPE-7	9/24/2009	5.2	-77
DPE-8	12/10/2008	14,200	
DPE-8	9/24/2009	1,850	-87

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-2	DPE-2	DPE-3	DPE-3	DPE-4	DPE-4
Collected Date and Time	Risk Limits	09/28/2009	12/10/2008	8/7/2008	09/28/2009	12/10/2008	09/28/2009	12/10/2008	09/28/2009	12/10/2008
	5/09	12:52	13:50	17:00	14:22	11:45	15:25	10:57	10:13	11:20
1,1,1,2-Tetrachloroethane	70	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
1,1,1-Trichloroethane	9000	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
1,1,2,2-Tetrachloroethane	2	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
1,1,2-Trichloroethane	3	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	912	NA*	11300	1,620	NA*	843	NA*	339	NA*
1,1-Dichloroethane	70	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
1,1-Dichloroethene	6	<50.0	<2000	<250	<250	<500	<200	<500	<50.0	<500
1,1-Dichloropropene	NL	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
1,2,3-Trichlorobenzene	NL	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
1,2,3-Trichloropropane	40	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
1,2,4-Trichlorobenzene	NL	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
1,2,4-Trimethylbenzene	NL	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
1,2-Dibromo-3-chloropropane	NL	<200	NA*	<1000	<1000	NA*	<800	NA*	<200	NA*
1,2-Dibromoethane (EDB)	.004	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
1,2-Dichlorobenzene	600	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
1,2-Dichloroethane	4	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
1,2-Dichloropropane	5	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
1,3,5-Trimethylbenzene	100	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
1,3-Dichlorobenzene	NL	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
1,3-Dichloropropane	NL	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
1,4-Dichlorobenzene	10	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
2,2-Dichloropropane	NL	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
2-Butanone (MEK)	4000	<200	NA*	<1000	<1000	NA*	<800	NA*	<200	NA*
2-Chlorotoluene	NL	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
4-Chlorotoluene	NL	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<200	NA*	<1000	<1000	NA*	<800	NA*	<200	NA*
Acetone	700	<500	NA*	<2500	<2500	NA*	<2000	NA*	<500	NA*
Allyl chloride	30	<200	NA*	<1000	<1000	NA*	<800	NA*	<200	NA*
Benzene	2	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
Bromobenzene	NL	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
Bromochloromethane	NL	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
Bromodichloromethane	6	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
Bromoform	40	<400	NA*	<2000	<2000	NA*	<1600	NA*	<400	NA*
Bromomethane	10	<200	NA*	<1000	<1000	NA*	<800	NA*	<200	NA*
Carbon tetrachloride	3	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
Chlorobenzene	100	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
Chloroethane	300	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
Chloroform	30	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
Chloromethane	NL	<200	NA*	<250	<1000	NA*	<800	NA*	<200	NA*
cis-1,2-Dichloroethene	50	<50.0	<2000	3250	<250	<500	<200	1,090	<50.0	<500
cis-1,3-Dichloropropene	NL	<200	NA*	<1000	<1000	NA*	<800	NA*	<200	NA*
Dibromochloromethane	10	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
Dibromomethane	NL	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
Dichlorodifluoromethane	1000	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
Dichlorofluoromethane	NL	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
Diethyl ether (Ethyl ether)	1000	<200	NA*	<1000	<1000	NA*	<800	NA*	<200	NA*
Ethylbenzene	700	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
Hexachloro-1,3-butadiene	1	<200	NA*	<1000	<1000	NA*	<800	NA*	<200	NA*
Isopropylbenzene (Cumene)	300	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
m&p-Xylene	NL	<100	NA*	<500	<500	NA*	<400	NA*	<100	NA*
Methylene Chloride	5	<200	NA*	<1000	<1000	NA*	<800	NA*	<200	NA*
Methyl-tert-butyl ether	70	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
Naphthalene	300	<200	NA*	<1000	<1000	NA*	<800	NA*	<200	NA*
n-Butylbenzene	NL	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
n-Propylbenzene	NL	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
o-Xylene	NL	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
p-Isopropyltoluene	NL	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
sec-Butylbenzene	NL	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
Styrene	NL	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
tert-Butylbenzene	NL	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
Tetrachloroethene	5	6,820	161,000	157,000	32,000	38,200	20,300	152,000	7,340	35,600
Tetrahydrofuran	100	<500	NA*	<2500	<2500	NA*	<2000	NA*	<500	NA*
Toluene	1000	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
trans-1,2-Dichloroethene	100	<50.0	<2000	<250	<250	<500	<200	<500	<50.0	<500
trans-1,3-Dichloropropene	NL	<200	NA*	<1000	<1000	NA*	<800	NA*	<200	NA*
Trichloroethene	5	<50.0	<2000	563	<250	<500	<200	<500	<50.0	<500
Trichlorofluoromethane	2000	<50.0	NA*	<250	<250	NA*	<200	NA*	<50.0	NA*
Vinyl chloride	0.2	<20.0	<800	<100	<100	<200	<80.0	<200	<20.0	<200
Xylene (Total)	10000	<150	NA*	<750	<750	NA*	<600	NA*	<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	DPE-5	DPE-5	DPE-6	DPE-6	DPE-7	DPE-7	DPE-8	DPE-8	MW14	MW-14
Collected Date and Time	Risk Limits	09/24/2009	12/10/2008	09/24/2009	12/10/2008	09/24/2009	12/10/2008	09/24/2009	12/10/2008	10/01/2009	12/03/2008
	5/09	04:00	16:45	04:30	14:29	05:00	13:15	05:30	09:30	04:00	16:20
1,1,1,2-Tetrachloroethane	70	<10.0	NA*	<1.0	NA*	<1.0	NA*	<2.0	NA*	<1.0	NA*
1,1,1-Trichloroethane	9000	<10.0	NA*	<1.0	NA*	<1.0	NA*	<2.0	NA*	<1.0	NA*
1,1,2,2-Tetrachloroethane	2	<10.0	NA*	<1.0	NA*	<1.0	NA*	<2.0	NA*	<1.0	NA*
1,1,2-Trichloroethane	3	<10.0	NA*	<1.0	NA*	<1.0	NA*	<2.0	NA*	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	**37.9**	NA*	**3.5**	NA*	**1.6**	NA*	**43.4**	NA*	<1.0	NA*
1,1-Dichloroethane	70	<10.0	NA*	<1.0	NA*	<1.0	NA*	<2.0	NA*	<1.0	NA*
1,1-Dichloroethene	6	<10.0	<10.0	<1.0	<2.0	<1.0	<1.0	<2.0	<100	<1.0	<1.0
1,1-Dichloropropene	NL	<10.0	NA*	<1.0	NA*	<1.0	NA*	<2.0	NA*	<1.0	NA*
1,2,3-Trichlorobenzene	NL	<10.0	NA*	<1.0	NA*	<1.0	NA*	<2.0	NA*	<1.0	NA*
1,2,3-Trichloropropane	40	<10.0	NA*	<1.0	NA*	<1.0	NA*	<2.0	NA*	<1.0	NA*
1,2,4-Trichlorobenzene	NL	<10.0	NA*	<1.0	NA*	<1.0	NA*	<2.0	NA*	<1.0	NA*
1,2,4-Trimethylbenzene	NL	<10.0	NA*	<1.0	NA*	<1.0	NA*	<2.0	NA*	<1.0	NA*
1,2-Dibromo-3-chloropropane	NL	<40.0	NA*	<4.0	NA*	<4.0	NA*	<8.0	NA*	<4.0	NA*
1,2-Dibromoethane (EDB)	.004	<10.0	NA*	<1.0	NA*	<1.0	NA*	<2.0	NA*	<1.0	NA*
1,2-Dichlorobenzene	600	<10.0	NA*	<1.0	NA*	<1.0	NA*	<2.0	NA*	<1.0	NA*
1,2-Dichloroethane	4	<10.0	NA*	<1.0	NA*	<1.0	NA*	<2.0	NA*	<1.0	NA*
1,2-Dichloropropane	5	<10.0	NA*	<1.0	NA*	<1.0	NA*	<2.0	NA*	<1.0	NA*
1,3,5-Trimethylbenzene	100	<10.0	NA*	<1.0	NA*	<1.0	NA*	<2.0	NA*	<1.0	NA*
1,3-Dichlorobenzene	NL	<10.0	NA*	<1.0	NA*	<1.0	NA*	<2.0	NA*	<1.0	NA*
1,3-Dichloropropane	NL	<10.0	NA*	<1.0	NA*	<1.0	NA*	<2.0	NA*	<1.0	NA*
1,4-Dichlorobenzene	10	<10.0	NA*	<1.0	NA*	<1.0	NA*	<2.0	NA*	<1.0	NA*
2,2-Dichloropropane	NL	<10.0	NA*	<1.0	NA*	<1.0	NA*	<2.0	NA*	<1.0	NA*
2-Butanone (MEK)	4000	<40.0	NA*	<4.0	NA*	<4.0	NA*	**24.1**	NA*	<4.0	NA*
2-Chlorotoluene	NL	<10.0	NA*	<1.0	NA*	<1.0	NA*	<2.0	NA*	<1.0	NA*
4-Chlorotoluene	NL	<10.0	NA*	<1.0	NA*	<1.0	NA*	<2.0	NA*	<1.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<40.0	NA*	<4.0	NA*	<4.0	NA*	<8.0	NA*	<4.0	NA*
Acetone	700	<100	NA*	<10.0	NA*	<10.0	NA*	<20.0	NA*	<10.0	NA*
Allyl chloride	30	<40.0	NA*	<4.0	NA*	<4.0	NA*	<8.0	NA*	<4.0	NA*
Benzene	2	<10.0	NA*	<1.0	NA*	<1.0	NA*	<2.0	NA*	<1.0	NA*
Bromobenzene	NL	<10.0	NA*	<1.0	NA*	<1.0	NA*	<2.0	NA*	<1.0	NA*
Bromochloromethane	NL	<10.0	NA*	<1.0	NA*	<1.0	NA*	<2.0	NA*	<1.0	NA*
Bromodichloromethane	6	<10.0	NA*	<1.0	NA*	<1.0	NA*	<2.0	NA*	<1.0	NA*
Bromoform	40	<80.0	NA*	<8.0	NA*	<8.0	NA*	<16.0	NA*	<8.0	NA*
Bromomethane	10	<40.0	NA*	<4.0	NA*	<4.0	NA*	<8.0	NA*	<4.0	NA*
Carbon tetrachloride	3	<10.0	NA*	<1.0	NA*	<1.0	NA*	<2.0	NA*	<1.0	NA*
Chlorobenzene	100	<10.0	NA*	<1.0	NA*	<1.0	NA*	<2.0	NA*	<1.0	NA*
Chloroethane	300	<10.0	NA*	<1.0	NA*	<1.0	NA*	<2.0	NA*	<1.0	NA*
Chloroform	30	<10.0	NA*	<1.0	NA*	**1.3**	NA*	<2.0	NA*	**3.7**	NA*
Chloromethane	NL	<40.0	NA*	<4.0	NA*	<4.0	NA*	<8.0	NA*	<4.0	NA*
cis-1,2-Dichloroethene	50	<10.0	<10.0	<1.0	<2.0	<1.0	<1.0	<2.0	<100	<1.0	<1.0
cis-1,3-Dichloropropene	NL	<40.0	NA*	<4.0	NA*	<4.0	NA*	<8.0	NA*	<4.0	NA*
Dibromochloromethane	10	<10.0	NA*	<1.0	NA*	<1.0	NA*	<2.0	NA*	<1.0	NA*
Dibromomethane	NL	<10.0	NA*	<1.0	NA*	<1.0	NA*	<2.0	NA*	<1.0	NA*
Dichlorodifluoromethane	1000	<10.0	NA*	<1.0	NA*	<1.0	NA*	<2.0	NA*	<1.0	NA*
Dichlorofluoromethane	NL	<10.0	NA*	<1.0	NA*	<1.0	NA*	<2.0	NA*	<1.0	NA*
Diethyl ether (Ethyl ether)	1000	<40.0	NA*	<4.0	NA*	<4.0	NA*	<8.0	NA*	<4.0	NA*
Ethylbenzene	700	<10.0	NA*	<1.0	NA*	<1.0	NA*	<2.0	NA*	<1.0	NA*
Hexachloro-1,3-butadiene	1	<40.0	NA*	<4.0	NA*	<4.0	NA*	<8.0	NA*	<4.0	NA*
Isopropylbenzene (Cumene)	300	<10.0	NA*	<1.0	NA*	<1.0	NA*	<2.0	NA*	<1.0	NA*
m&p-Xylene	NL	<20.0	NA*	<2.0	NA*	<2.0	NA*	<4.0	NA*	<2.0	NA*
Methylene Chloride	5	<40.0	NA*	<4.0	NA*	<4.0	NA*	<8.0	NA*	<4.0	NA*
Methyl-tert-butyl ether	70	<10.0	NA*	<1.0	NA*	<1.0	NA*	<2.0	NA*	<1.0	NA*
Naphthalene	300	<40.0	NA*	<4.0	NA*	<4.0	NA*	<8.0	NA*	<4.0	NA*
n-Butylbenzene	NL	<10.0	NA*	<1.0	NA*	<1.0	NA*	<2.0	NA*	<1.0	NA*
n-Propylbenzene	NL	<10.0	NA*	<1.0	NA*	<1.0	NA*	<2.0	NA*	<1.0	NA*
o-Xylene	NL	<10.0	NA*	<1.0	NA*	<1.0	NA*	<2.0	NA*	<1.0	NA*
p-Isopropyltoluene	NL	<10.0	NA*	<1.0	NA*	<1.0	NA*	<2.0	NA*	<1.0	NA*
sec-Butylbenzene	NL	<10.0	NA*	<1.0	NA*	<1.0	NA*	<2.0	NA*	<1.0	NA*
Styrene	NL	<10.0	NA*	<1.0	NA*	<1.0	NA*	<2.0	NA*	<1.0	NA*
tert-Butylbenzene	NL	<10.0	NA*	<1.0	NA*	<1.0	NA*	<2.0	NA*	<1.0	NA*
Tetrachloroethene	5	**875**	**1,340**	**79.3**	**188**	**5.2**	**22.3**	**1,850**	**14,200**	**4.2**	**30.6**
Tetrahydrofuran	100	<100	NA*	<10.0	NA*	<10.0	NA*	**46.1**	NA*	<10.0	NA*
Toluene	1000	<10.0	NA*	<1.0	NA*	<1.0	NA*	<2.0	NA*	<1.0	NA*
trans-1,2-Dichloroethene	100	<10.0	<10.0	<1.0	<2.0	<1.0	<1.0	<2.0	<100	<1.0	<1.0
trans-1,3-Dichloropropene	NL	<40.0	NA*	<4.0	NA*	<4.0	NA*	<8.0	NA*	<4.0	NA*
Trichloroethene	5	<10.0	<10.0	<1.0	<2.0	<1.0	<1.0	<2.0	<100	<1.0	<1.0
Trichlorofluoromethane	2000	<10.0	NA*	<1.0	NA*	<1.0	NA*	<2.0	NA*	<1.0	NA*
Vinyl chloride	0.2	<4.0	<4.0	<0.40	<0.80	<0.40	<0.40	<0.80	<40.0	<0.40	<0.40
Xylene (Total)	10000	<30.0	NA*	<3.0	NA*	<3.0	NA*	<6.0	NA*	<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	MW15 10/01/2009 04:20	MW15 12/10/2008 12:15	MW16 10/01/2009 04:25	MW-16 12/03/2008 12:35	MW17 10/01/2009 05:20	MW-17 12/03/2008 13:10	MW18 10/01/2009 05:46	MW-18 12/03/2008 14:26	MW-19 09/24/2009 11:40	MW-19 12/03/2008 16:59
1,1,1,2-Tetrachloroethane	70	<1.0	NA*	<10.0	NA*	<2.0	NA*	<1.0	NA*	<1.0	NA*
1,1,1-Trichloroethane	9000	<1.0	NA*	<10.0	NA*	<2.0	NA*	<1.0	NA*	<1.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	NA*	<10.0	NA*	<2.0	NA*	<1.0	NA*	<1.0	NA*
1,1,2-Trichloroethane	3	<1.0	NA*	<10.0	NA*	<2.0	NA*	<1.0	NA*	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	6.4	NA*	779	NA*	249	NA*	2.7	NA*	2.4	NA*
1,1-Dichloroethane	70	<1.0	NA*	<10.0	NA*	<2.0	NA*	<1.0	NA*	<1.0	NA*
1,1-Dichloroethene	6	<1.0	<1.0	<10.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<1.0
1,1-Dichloropropene	NL	<1.0	NA*	<10.0	NA*	<2.0	NA*	<1.0	NA*	<1.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	NA*	<10.0	NA*	<2.0	NA*	<1.0	NA*	<1.0	NA*
1,2,3-Trichloropropane	40	<1.0	NA*	<10.0	NA*	<2.0	NA*	<1.0	NA*	<1.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	NA*	<10.0	NA*	<2.0	NA*	<1.0	NA*	<1.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	NA*	<10.0	NA*	<2.0	NA*	<1.0	NA*	<1.0	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	NA*	<40.0	NA*	<8.0	NA*	<4.0	NA*	<4.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	NA*	<10.0	NA*	<2.0	NA*	<1.0	NA*	<1.0	NA*
1,2-Dichlorobenzene	600	<1.0	NA*	<10.0	NA*	<2.0	NA*	<1.0	NA*	<1.0	NA*
1,2-Dichloroethane	4	<1.0	NA*	<10.0	NA*	<2.0	NA*	<1.0	NA*	<1.0	NA*
1,2-Dichloropropane	5	<1.0	NA*	<10.0	NA*	<2.0	NA*	<1.0	NA*	<1.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	NA*	<10.0	NA*	<2.0	NA*	<1.0	NA*	<1.0	NA*
1,3-Dichlorobenzene	NL	<1.0	NA*	<10.0	NA*	<2.0	NA*	<1.0	NA*	<1.0	NA*
1,3-Dichloropropane	NL	<1.0	NA*	<10.0	NA*	<2.0	NA*	<1.0	NA*	<1.0	NA*
1,4-Dichlorobenzene	10	<1.0	NA*	<10.0	NA*	<2.0	NA*	<1.0	NA*	<1.0	NA*
2,2-Dichloropropane	NL	<1.0	NA*	<10.0	NA*	<2.0	NA*	<1.0	NA*	<1.0	NA*
2-Butanone (MEK)	4000	<4.0	NA*	<40.0	NA*	<8.0	NA*	<4.0	NA*	5.5	NA*
2-Chlorotoluene	NL	<1.0	NA*	<10.0	NA*	<2.0	NA*	<1.0	NA*	<1.0	NA*
4-Chlorotoluene	NL	<1.0	NA*	<10.0	NA*	<2.0	NA*	<1.0	NA*	<1.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	NA*	<40.0	NA*	<8.0	NA*	<4.0	NA*	<4.0	NA*
Acetone	700	<10.0	NA*	<100	NA*	<20.0	NA*	<10.0	NA*	<10.0	NA*
Allyl chloride	30	<4.0	NA*	<40.0	NA*	<8.0	NA*	<4.0	NA*	<4.0	NA*
Benzene	2	<1.0	NA*	<10.0	NA*	<2.0	NA*	<1.0	NA*	<1.0	NA*
Bromobenzene	NL	<1.0	NA*	<10.0	NA*	<2.0	NA*	<1.0	NA*	<1.0	NA*
Bromochloromethane	NL	<1.0	NA*	<10.0	NA*	<2.0	NA*	<1.0	NA*	<1.0	NA*
Bromodichloromethane	6	<1.0	NA*	<10.0	NA*	<2.0	NA*	<1.0	NA*	<1.0	NA*
Bromoform	40	<8.0	NA*	<80.0	NA*	<16.0	NA*	<8.0	NA*	<8.0	NA*
Bromomethane	10	<4.0	NA*	<40.0	NA*	<8.0	NA*	<4.0	NA*	<4.0	NA*
Carbon tetrachloride	3	<1.0	NA*	<10.0	NA*	<2.0	NA*	<1.0	NA*	<1.0	NA*
Chlorobenzene	100	<1.0	NA*	<10.0	NA*	<2.0	NA*	<1.0	NA*	<1.0	NA*
Chloroethane	300	<1.0	NA*	<10.0	NA*	<2.0	NA*	<1.0	NA*	<1.0	NA*
Chloroform	30	2.2	NA*	<10.0	NA*	2.4	NA*	<1.0	NA*	<1.0	NA*
Chloromethane	NL	<4.0	NA*	<40.0	NA*	<8.0	NA*	<4.0	NA*	<4.0	NA*
cis-1,2-Dichloroethene	50	<1.0	<1.0	24.0	133	4.8	<5.0	<1.0	<2.0	<1.0	<1.0
cis-1,3-Dichloropropene	NL	<4.0	NA*	<40.0	NA*	<8.0	NA*	<4.0	NA*	<4.0	NA*
Dibromochloromethane	10	<1.0	NA*	<10.0	NA*	<2.0	NA*	<1.0	NA*	<1.0	NA*
Dibromomethane	NL	<1.0	NA*	<10.0	NA*	<2.0	NA*	<1.0	NA*	<1.0	NA*
Dichlorodifluoromethane	1000	<1.0	NA*	<10.0	NA*	<2.0	NA*	<1.0	NA*	<1.0	NA*
Dichlorofluoromethane	NL	<1.0	NA*	<10.0	NA*	<2.0	NA*	<1.0	NA*	<1.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	NA*	<40.0	NA*	<8.0	NA*	<4.0	NA*	<4.0	NA*
Ethylbenzene	700	<1.0	NA*	<10.0	NA*	<2.0	NA*	<1.0	NA*	<1.0	NA*
Hexachloro-1,3-butadiene	1	<4.0	NA*	<40.0	NA*	<8.0	NA*	<4.0	NA*	<4.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	NA*	<10.0	NA*	<2.0	NA*	<1.0	NA*	<1.0	NA*
m&p-Xylene	NL	<2.0	NA*	<20.0	NA*	<4.0	NA*	<2.0	NA*	<2.0	NA*
Methylene Chloride	5	<4.0	NA*	<40.0	NA*	<8.0	NA*	<4.0	NA*	<4.0	NA*
Methyl-tert-butyl ether	70	<1.0	NA*	<10.0	NA*	<2.0	NA*	<1.0	NA*	<1.0	NA*
Naphthalene	300	<4.0	NA*	<40.0	NA*	<8.0	NA*	<4.0	NA*	<4.0	NA*
n-Butylbenzene	NL	<1.0	NA*	<10.0	NA*	<2.0	NA*	<1.0	NA*	<1.0	NA*
n-Propylbenzene	NL	<1.0	NA*	<10.0	NA*	<2.0	NA*	<1.0	NA*	<1.0	NA*
o-Xylene	NL	<1.0	NA*	<10.0	NA*	<2.0	NA*	<1.0	NA*	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	NA*	<10.0	NA*	<2.0	NA*	<1.0	NA*	<1.0	NA*
sec-Butylbenzene	NL	<1.0	NA*	<10.0	NA*	<2.0	NA*	<1.0	NA*	<1.0	NA*
Styrene	NL	<1.0	NA*	<10.0	NA*	<2.0	NA*	<1.0	NA*	<1.0	NA*
tert-Butylbenzene	NL	<1.0	NA*	<10.0	NA*	<2.0	NA*	<1.0	NA*	<1.0	NA*
Tetrachloroethene	5	15.7	104	6,890	14,100	803	363	250	257	17.4	2.4
Tetrahydrofuran	100	<10.0	NA*	<100	NA*	<20.0	NA*	<10.0	NA*	<10.0	NA*
Toluene	1000	<1.0	NA*	<10.0	NA*	<2.0	NA*	<1.0	NA*	<1.0	NA*
trans-1,2-Dichloroethene	100	<1.0	<1.0	<10.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<1.0
trans-1,3-Dichloropropene	NL	<4.0	NA*	<40.0	NA*	<8.0	NA*	<4.0	NA*	<4.0	NA*
Trichloroethene	5	<1.0	<1.0	<10.0	35.0	<2.0	<5.0	2.6	<2.0	<1.0	<1.0
Trichlorofluoromethane	2000	<1.0	NA*	<10.0	NA*	<2.0	NA*	<1.0	NA*	<1.0	NA*
Vinyl chloride	0.2	<0.40	<0.40	<4.0	<0.40	<0.80	<2.0	<0.40	<0.80	<0.40	<0.40
Xylene (Total)	10000	<3.0	NA*	<30.0	NA*	<6.0	NA*	<3.0	NA*	<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	MW20 10/01/2009 06:00	MW20 12/10/2008 10:30
1,1,1,2-Tetrachloroethane	70	<1.0	NA*
1,1,1-Trichloroethane	9000	<1.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	NA*
1,1,2-Trichloroethane	3	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	33.5	NA*
1,1-Dichloroethane	70	<1.0	NA*
1,1-Dichloroethene	6	<1.0	<5.0
1,1-Dichloropropene	NL	<1.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	NA*
1,2,3-Trichloropropane	40	<1.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	NA*
1,2-Dichlorobenzene	600	<1.0	NA*
1,2-Dichloroethane	4	<1.0	NA*
1,2-Dichloropropane	5	<1.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	NA*
1,3-Dichlorobenzene	NL	<1.0	NA*
1,3-Dichloropropane	NL	<1.0	NA*
1,4-Dichlorobenzene	10	<1.0	NA*
2,2-Dichloropropane	NL	<1.0	NA*
2-Butanone (MEK)	4000	<4.0	NA*
2-Chlorotoluene	NL	<1.0	NA*
4-Chlorotoluene	NL	<1.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	NA*
Acetone	700	<10.0	NA*
Allyl chloride	30	<4.0	NA*
Benzene	2	<1.0	NA*
Bromobenzene	NL	<1.0	NA*
Bromochloromethane	NL	<1.0	NA*
Bromodichloromethane	6	<1.0	NA*
Bromoform	40	<8.0	NA*
Bromomethane	10	<4.0	NA*
Carbon tetrachloride	3	<1.0	NA*
Chlorobenzene	100	<1.0	NA*
Chloroethane	300	<1.0	NA*
Chloroform	30	<1.0	NA*
Chloromethane	NL	<4.0	NA*
cis-1,2-Dichloroethene	50	<1.0	<5.0
cis-1,3-Dichloropropene	NL	<4.0	NA*
Dibromochloromethane	10	<1.0	NA*
Dibromomethane	NL	<1.0	NA*
Dichlorodifluoromethane	1000	<1.0	NA*
Dichlorofluoromethane	NL	<1.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	NA*
Ethylbenzene	700	<1.0	NA*
Hexachloro-1,3-butadiene	1	<4.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	NA*
m&p-Xylene	NL	<2.0	NA*
Methylene Chloride	5	<4.0	NA*
Methyl-tert-butyl ether	70	<1.0	NA*
Naphthalene	300	<4.0	NA*
n-Butylbenzene	NL	<1.0	NA*
n-Propylbenzene	NL	<1.0	NA*
o-Xylene	NL	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	NA*
sec-Butylbenzene	NL	<1.0	NA*
Styrene	NL	<1.0	NA*
tert-Butylbenzene	NL	<1.0	NA*
Tetrachloroethene	5	713	599
Tetrahydrofuran	100	<10.0	NA*
Toluene	1000	<1.0	NA*
trans-1,2-Dichloroethene	100	<1.0	<5.0
trans-1,3-Dichloropropene	NL	<4.0	NA*
Trichloroethene	5	<1.0	<5.0
Trichlorofluoromethane	2000	<1.0	NA*
Vinyl chloride	0.2	<0.40	<2.0
Xylene (Total)	10000	<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 Collected Date	DPE-6 12/10/2008 14:29	DPE-6 09/24/2009 04:30	DPE-7 12/10/2008 13:15	DPE-7 09/24/2009 05:00	DPE-8 12/10/2008 09:30	DPE-8 09/24/2009 05:30	MW14 10/01/2009 04:00	MW-14 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-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-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-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-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-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-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
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-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-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-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-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-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-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-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

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

Attachments

Attachment A

Attachment A - Table 1

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

Date	Time	Extraction Well	DPE Pump Hours	Hours per Period	Flow Rate				DPE Air Flow (scf)	Pump Inlet Vacuum (in. Hg)	Post-MS Vacuum (in. Hg)	DPE Well/Pre-MS Vacuum (in. Hg)		Pre-Manifold Vacuum (in. Hg)	DPE Well Head/Drop Tube Vacuum (in. Hg)	DPE Well Casing Vacuum (in. H_2O)	DPE Pump Outlet Pressure		DPE Pump Outlet Temp. (Deg. F)		DPE Exhaust PID (ppm)	Extraction Well Bleed Valve % Open	DPE Pump Bleed Valve % Open	Comments
					Field (scfm)	Analog (scfm)	Analog (m^3/s)	Analog (acfm)				Analog	Field				Analog (psi)	Field (in H_2O)	Analog	Field				
6/29/2009	1640	DPE-1	88.0	88.0	25	20.9	0.010	134.3	6,000	25.29	NR	24.95	24.50	24	NR	NR	0	0	229	200	NR	0	0	
9/4/2009	805	DPE-1	957.0	869.0	25	24.3	0.011	109.5	1,208,000	23.3	9.4	9.66	9.8	9.1	NR	86	0.02	0	307	310	34	100	0	DPE Pump Screen plugged
9/4/2009	946	DPE-1	957.0	0.0	40	36.1	0.017	120.5	1,209,000	21.0	21.0	20.43	21.0	20.0	NR	149	0	0	210	248	>4000	100	0	DPE & AS exhaust sampled
9/4/2009	1135	DPE-1	959.0	2.0	25	27.3	0.013	117.2	1,212,000	23.0	22.5	22.70	22.5	22.5	NR	>150	0	0	275	270	>4000	30	0	1 micron MS filter installed
10/15/2009	1120	DPE-1	1899.0	940.0	35	31.6	0.015	135.9	2,658,000	23.0	22.5	22.22	22.5	22.5	NR	>150	0	0	283	270	ND	20	0	DPE-1 exhaust sampled
10/16/2009	621	DPE-1	1911.0	12.0	35	32.4	0.015	142.2	2,684,000	23.1	22.5	22.35	22.5	22.0	NR	>150	NR	0	291	299	ND	100	0	DPE 6-hr composite sample collected
10/23/2009	922	DPE-3	1924.0	13.0	70	70.6	0.033	143.0	2,715,000	15.2	14.1	14.58	14.0	13.8	NR	90"	0	NR	199	190	ND	100	0	

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

Attachment A - Table 2

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

Date	Time	MS Vacuum Valve hours	MS pump Hours	MS Pump Flow Totalizer (gal)		MS Pump Flow Rate (gpm)		MS Pump Pressure (psi)	Elevator Sump Water Flow (gal)		Comments
				Analog	Field	Analog	Field		Analog	Field	
6/29/2009	1640	49	48	8,464	8,473	NR	10.2	NR	300	NR	
9/4/2009	805	49	96	38,299	38,213	NP	12.0	21	300	500	
10/15/2009	1120	49	131	62,643	64,283	NP	11.8	44	300	500	
10/16/2009	621	49	131	62,886	NR	NP	NR	NR	300	500	
10/23/2009	922	49	132	63,113	NR	NR	NR	NR	300	500	

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	

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

Attachement A - Table 4

DPE WELL CASING VACUUM DATA (in. H_2O)
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Date	DPE-1	DPE-2	DPE-3	DPE-4	DPE-5	DPE-6	DPE-7	DPE-8
7/9/2009	**129.0**	2.6	0.1	0.1	0.4	1.9	2.4	0.0
8/11/2009	**117.0**	0.0	0.0	0.8	0.0	2.2	2.9	0.0
9/4/2009	**86.0**	NR	NR	NR	NR	NR	NR	NR
9/4/2009	**149.0**	NR	NR	NR	NR	NR	NR	NR
9/4/2009	**>150**	NR	NR	NR	NR	NR	NR	NR
10/15/2009	**>150**	3.403	0.298	0.896	1.280	1.936	0.471	0.037
10/23/2009	0.001	0.002	**90.0**	0.001	0.002	0.002	0.003	0.001

Notes:
Bold indicates the current operating extraction well.

Attachement A - Table 5

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

Well ID	Date	PID (ppm)	DPE Exhaust Flow Rate (scfm)	DPE Pump Inlet Vacuum (in. Hg)
DPE-1	27-Oct-09	37	45	18
DPE-2	27-Oct-09	50.6	40	19
DPE-3	27-Oct-09	15.7	73	15
DPE-4	27-Oct-09	23.9	35	22
DPE-5	27-Oct-09	3.8	40	22
DPE-6	27-Oct-09	ND	55	17
DPE-7	27-Oct-09	ND	60	16
DPE-8	27-Oct-09	ND	45	22

Attachement A - Table 6

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

Location	Date	Total Well Depth (ft below TOC)	Operating Depth (ft below TOC)	Operating Water Column Thickness (ft)	Static Water Level (ft below TOC)	Static Water Column Thickness (ft)	Static Water Volume (gallons)
DPE-1	23-Oct-09	21.9	21.8	0.1	14.88	7.02	4.6
DPE-1	27-Oct-09	21.9	21.9	0	14.54	7.36	4.8
DPE-2	23-Oct-09	20.5	19.95	0.55	15.53	4.97	3.2
DPE-2	27-Oct-09	20.5	20.51	-0.01	16.35	4.15	2.7
DPE-3	23-Oct-09	17.1	17.5	-0.4	14.76	2.34	1.5
DPE-3	27-Oct-09	17.1	17.8	-0.7	14.51	2.59	1.7
DPE-4	23-Oct-09	19.3	19.71	-0.41	14.81	4.49	2.9
DPE-4	27-Oct-09	19.3	19.8	-0.5	14.58	4.72	3.1
DPE-5	23-Oct-09	18.1	18.5	-0.4	13.78	4.32	2.8
DPE-5	27-Oct-09	18.1	18.7	-0.6	13.52	4.58	3.0
DPE-6	23-Oct-09	19.5	19.8	-0.3	14.56	4.94	3.2
DPE-6	27-Oct-09	19.5	19.5	0	14.31	5.19	3.4
DPE-7	23-Oct-09	22.2	22.2	0	15.68	6.52	4.3
DPE-7	27-Oct-09	22.2	22.2	0	15.49	6.71	4.4
DPE-8	23-Oct-09	17.5	17.3	0.2	13.18	4.32	2.8
DPE-8	27-Oct-09	17.5	17.9	-0.4	13.24	4.26	2.8

Attachment A - Table 7

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

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

Notes:

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

FIELD DATA SHEET

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

DATE: 10/15/09
RECORDED BY:
pre modification

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: 20
DPE PUMP BLEED VALVE % OPEN: 0

ANALOG PANEL READINGS

DPE PUMP AIR FLOW (SCFM):	31.6
DPE WELL VACUUM (IN. HG):	22.22
DPE PUMP INLET VACUUM (IN. HG):	23.00
DPE PUMP OUTLET PRESSURE (PSI):	0.0
DPE PUMP OUTLET TEMP (DEG. F):	283.1
MS PUMP WATER FLOW (GPM):	0

TOTAL PANEL READINGS

DPE VACUUM PUMP (HRS):	1899
MS PUMP (HRS):	131
MS VACUUM VALVE (HRS):	49
AIR STRIPPER BLOWER (HRS):	649
AIR STRIPPER PUMP (HRS):	55
DPE AIR FLOW (SCF):	2658000
MS PUMP WATER FLOW (GAL):	62643
SUMP PUMP WATER FLOW (GAL):	300

WATER LEVEL MEASUREMENTS

	Clean to Dirty Ranking	Well Depth below TOC (FT)	Depth to Water below TOC (FT)
MW-14	3	17.5	12.47
MW-15	4	18	15.38
MW-16	10	18	13.61
MW-17	7	25	14.00
MW-18	6	60	15.18
MW-19	1	20	14.47
MW-20	8	16.7	12.16
DPE-1	15	21.9	—
DPE-2	13	20.5	16.96
DPE-3	14	17.1	14.87
DPE-4	12	19.3	15.83
DPE-5	9	18.1	14.99
DPE-6	5	19.5	15.94
DPE-7	2	22.2	16.80
DPE-8	11	17.5	14.01
Sump	1	7.74	6.18

Post System Repairs

FIELD MEASUREMENTS

DPE WELL CASING VACUUM (MM HG):	>150"
DPE WELL HEAD (DROP TUBE) VACUUM (IN. HG):	
PRE-MANIFOLD VACUUM (IN. HG):	~~23~~ ~~23~~ 22.5
DPE WELL (PRE-MS) VACUUM (IN.HG):	~~23~~ 22.5
POST-MS VACUUM (IN. HG):	22.5
DPE PUMP AIR FLOW (SCFM):	35
DPE EXHAUST PID CONC. (PPM):	ND - /4000 With heat
DPE PUMP OUTLET PRESSURE (IN. H2O)):	ND
DPE PUMP OUTLET TEMP (DEG. F):	270

DPE WELL CASING VACUUMS

	Post Repair	
DPE-1	109. — >150"	>150"
DPE-2	1.260	3.403
DPE-3	—	0.298
DPE-4	0.129	0.896
DPE-5	0.075	1.280
DPE-6	0.998	1.936
DPE-7	0.471	X
DPE-8	0.008	0.037

SUMP ROOM PID: ND

BASEMENT PID READINGS: ND

AMBIENT ROOM TEMPERATURE
CURRENT: 75 MAX: ~~82~~ 89

COMMENTS/MAINTENANCE:

MS PUMP WATER FLOWRATE (WHILE PUMPING) (GPM):	11.0
MS PUMP WATER PRESSURE (WHILE PUMPING) (PSI):	~~44~~
MS PUMP FLOW TOTALIZER READING (GAL):	64283
AS EXHAUST PRESSURE (IN. H20):	11
AS DISCHARGE PUMP PRESSURE (WHILE PUMPING) (PSI):	ND
AS BLOWER PRESSURE (IN. H20):	18
AS EXHAUST PID (PPM):	ND
ELEVATOR DRAIN TILE SUMP FLOW TOTALIZER (GAL):	

CAN # 253 grab

FIELD DATA SHEET

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

DATE: 10/16/09
RECORDED BY: 06:21

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

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

CURRENT OPERATING WELL: "DPE-1"

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

ANALOG PANEL READINGS

DPE PUMP AIR FLOW (SCFM):	32.4
DPE WELL VACUUM (IN. HG):	22.35
DPE PUMP INLET VACUUM (IN. HG):	27.14
DPE PUMP OUTLET PRESSURE (PSI):	—
DPE PUMP OUTLET TEMP (DEG. F):	291.1
MS PUMP WATER FLOW (GPM):	0

Composite Test/Sample Data

TOTAL PANEL READINGS

DPE VACUUM PUMP (HRS):	1911
MS PUMP (HRS):	131
MS VACUUM VALVE (HRS):	49
AIR STRIPPER BLOWER (HRS):	651
AIR STRIPPER PUMP (HRS):	56
DPE AIR FLOW (SCF):	2684000
MS PUMP WATER FLOW (GAL):	62886
SUMP PUMP WATER FLOW (GAL):	300

FIELD MEASUREMENTS

DPE WELL CASING VACUUM (MM HG):	—
DPE WELL HEAD (DROP TUBE) VACUUM (IN. HG):	—
PRE-MANIFOLD VACUUM (IN. HG):	22
DPE WELL (PRE-MS) VACUUM (IN.HG):	~~23~~ 22.5
POST-MS VACUUM (IN. HG):	22.5
DPE PUMP AIR FLOW (SCFM):	35
DPE EXHAUST PID CONC. (PPM):	ND
DPE PUMP OUTLET PRESSURE (IN. H2O)):	ND
DPE PUMP OUTLET TEMP (DEG. F):	299
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):	11
AS DISCHARGE PUMP PRESSURE (WHILE PUMPING) (PSI):	—
AS BLOWER PRESSURE (IN. H20):	18
AS EXHAUST PID (PPM):	ND
ELEVATOR DRAIN TILE SUMP FLOW TOTALIZER (GAL):	

WATER LEVEL MEASUREMENTS

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

DPE WELL CASING VACUUMS

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

SUMP ROOM PID:

BASEMENT PID READINGS:

AMBIENT ROOM TEMPERATURE
CURRENT: MAX:

COMMENTS/MAINTENANCE:
6-hr Composite air Sample
CAN # 531 Regulator PA83
0616 - 30 ~~in Hg~~ PSI Start
0750 - Stopped
0752 - Restarted
0955 - 14 ~~in Hg~~ PSI
1219 - 6 ~~in Hg~~ PSI

FIELD DATA SHEET

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

DATE: 10/23/09
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:	100
DPE PUMP BLEED VALVE % OPEN:	100

ANALOG PANEL READINGS

DPE PUMP AIR FLOW (SCFM):	70.6
DPE WELL VACUUM (IN. HG):	14.58
DPE PUMP INLET VACUUM (IN. HG):	15.23
DPE PUMP OUTLET PRESSURE (PSI):	0
DPE PUMP OUTLET TEMP (DEG. F):	199
MS PUMP WATER FLOW (GPM):	

TOTAL PANEL READINGS

DPE VACUUM PUMP (HRS):	1924
MS PUMP (HRS):	132
MS VACUUM VALVE (HRS):	49
AIR STRIPPER BLOWER (HRS):	654
AIR STRIPPER PUMP (HRS):	56
DPE AIR FLOW (SCF):	2715000
MS PUMP WATER FLOW (GAL):	6313
SUMP PUMP WATER FLOW (GAL):	300

FIELD MEASUREMENTS

DPE WELL CASING VACUUM (MM HG):	7150 - check valve closed Least Sound 90"
DPE WELL HEAD (DROP TUBE) VACUUM (IN. HG):	13.8
PRE-MANIFOLD VACUUM (IN. HG):	13.8
DPE WELL (PRE-MS) VACUUM (IN.HG):	14.0
POST-MS VACUUM (IN. HG):	14.1
DPE PUMP AIR FLOW (SCFM):	70
DPE EXHAUST PID CONC. (PPM):	ND
DPE PUMP OUTLET PRESSURE (IN. H2O)):	
DPE PUMP OUTLET TEMP (DEG. F):	190
MS PUMP WATER FLOWRATE (WHILE PUMPING) (GPM):	
MS PUMP WATER PRESSURE (WHILE PUMPING) (PSI):	
MS PUMP FLOW TOTALIZER READING (GAL):	
AS EXHAUST PRESSURE (IN. H20):	
AS DISCHARGE PUMP PRESSURE (WHILE PUMPING) (PSI):	
AS BLOWER PRESSURE (IN. H20):	
AS EXHAUST PID (PPM):	
ELEVATOR DRAIN TILE SUMP FLOW TOTALIZER (GAL):	

WATER LEVEL MEASUREMENTS

	Clean to Dirty Ranking	Well Depth below TOC (FT)	Depth to Water below TOC (FT)
MW-14	3	17.5	11.33
MW-15	4	18	14.14
MW-16	10	18	11.89
MW-17	7	25	13.13
MW-18	6	60	14.28
MW-19	1	20	13.28
MW-20	8	16.7	11.33
DPE-1	15	21.9	14.88 Dry
DPE-2	13	20.5	15.53
DPE-3	14	17.1	14.76 Dry 17.5
DPE-4	12	19.3	14.81
DPE-5	18	18.1	13.78
DPE-6	19 Dry	19.5	14.56
DPE-7	20.2 Dry	22.2	15.68
DPE-8	11	17.5	13.18
Sump	1	7.74	6.08

Dry 21.8
syphon off
17.95'
Dry 19.7'
Dry 18.5
17.3

WELL CASING VACUUMS (PE3)		PID READINGS	
DPE-1	-0.001	DPE-1	ND ND
DPE-2	-0.002	DPE-2	ND ND
DPE-3	90"	DPE-3	ND NA Glove
DPE-4	-0.001	DPE-4	ND ND
DPE-5	-0.002	DPE-5	ND ND
DPE-6	-0.002	DPE-6	ND ND
DPE-7	-0.003	DPE-7	ND ND
DPE-8	-0.001	DPE-8	ND ND

SUMP ROOM PID: ND

BASEMENT PID READINGS: ND

AMBIENT ROOM TEMPERATURE
CURRENT: 107 MAX: 89

COMMENTS/MAINTENANCE:

Field Information Data Sheet

Landmark Environmental, LLC

Client Name: City of Rochester

Project Name: _____ Project Number: _____

Location: DPE-1 Date: 9/28/09

Station: _____ Sample time: _____

Casing diameter:	4	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	9.38							
Static water level	12.52		18.1	2584	7.64	170	4.8	
Water depth[1]:	21.9							
Well volume (gal):	6.1							
Purge method:	DED							
Sample Method:	GRAB							
Start time:	—							
Stop time:	—							
Duration (min.):	—	Odor:						
Rate, gpm:	—	Purge appearance:	Lt Brown					
Volume purged:	—	Sample appearance:	Lt Brown					
Duplicate collected?	—	Comments:						
Sampled by:	—							
Others present:		Well Condition						
Analysis:	VOC Semi-volatile general COD TOC nutrient cyanide oil,grease whirl pak total metal filtered metal 500 ml filter in-line filter others:							

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

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

Field Information Data Sheet

Landmark Environmental, LLC

Client Name: City of Rochester

Project Name: _____ Project Number: _____

Location: DPE-2 Date: 9/28/09

Station: _____ Sample time: _____

Casing diameter:	4	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	20.5							
Static water level:	14.22		19.2	2440	8.00	81	7.82	
Water depth[1]:	6.28							
Well volume (gal):	10.2							
Purge method:	DED							
Sample Method:	GRAB							
Start time:	X							
Stop time:	X							
Duration (min.):	X	Odor:						
Rate, gpm:	X	Purge appearance:	Brown					
Volume purged:	X	Sample appearance:	Brown					
Duplicate collected?	X	Comments:						
Sampled by:	X							
Others present:		Well Condition						
Analysis:	VOC Semi-volatile general COD TOC nutrient cyanide oil,grease whirl pak total metal filtered metal 500 ml filter in-line filter others:							
MW:gw monitoring well WS:water supply well SW:surface water SE:sediment other:								

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

Field Information Data Sheet

Landmark Environmental, LLC

Client Name: City of Rochester

Project Name: _____ Project Number: _____

Location: DPE-3 Date: 9/28/09

Station: _____ Sample time: _____

Casing diameter:	4	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	17.1							
Static water level:	15.27		17.3	7799	7.95	158	7.05	
Water depth[1]:	1.9							
Well volume (gal):	0.3							
Purge method:	DED							
Sample Method:	GRAB							
Start time:	—							
Stop time:	—							
Duration (min.):	—	Odor:						
Rate, gpm:	—	Purge appearance:						
Volume purged:	—	Sample appearance:						
Duplicate collected?	—	Comments: Running grab						
Sampled by:	—							
Others present:				Well Condition				
Analysis:	VOC Semi-volatile general COD TOC nutrient cyanide oil,grease whirl pak total metal filtered metal 500 ml filter in-line filter others:							
MW:gw monitoring well WS:water supply well SW:surface water SE:sediment other:								

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

Field Information Data Sheet

Landmark Environmental, LLC

Client Name: City of Rochester

Project Name: _____ Project Number: _____

Location: DPE-4 Date: 9/28/09

Station: _____ Sample time: _____

Casing diameter:	4"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	19.3							
Static water level:	10.13		17.14	3230	8.25	87.4	8.22	
Water depth[1]:	9.17							
Well volume (gal):	1.5							
Purge method:	PED							
Sample Method:	GRAB							
Start time:	—							
Stop time:	—							
Duration (min.):	—	Odor:	B					
Rate, gpm:	—	Purge appearance:	Brown					
Volume purged:	—	Sample appearance:	Lt Brown					
Duplicate collected?	—	Comments:						
Sampled by:	—							

Others present:		Well Condition	
Analysis:	VOC Semi-volatile general COD TOC nutrient cyanide oil,grease whirl pak total metal filtered metal 500 ml filter in-line filter others:		

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

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

Field Information Data Sheet

Landmark Environmental, LLC

Client Name: City of Rochester

Project Name: _____ Project Number: _____

Location: DPE-5 Date: 9/28/09

Station: _____ Sample time: 04:00

Casing diameter:	4"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	18.1							
Static water level:	15.07		17.06	2264	7.94	181	0.20	
Water depth[1]:	NA 3.03							
Well volume (gal):	1.9							
Purge method:	DED							
Sample Method:	GRAB							
Start time:	—							
Stop time:	—							
Duration (min.):	—	Odor:						
Rate, gpm:	—	Purge appearance:	Brown					
Volume purged:	—	Sample appearance:	Brown					
Duplicate collected?	—	Comments:						
Sampled by:	—							
Others present:		Well Condition						
Analysis:	VOC Semi-volatile general COD TOC nutrient cyanide oil,grease whirl pak total metal filtered metal 500 ml filter in-line filter others:							

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

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

Field Information Data Sheet

Landmark Environmental, LLC

Client Name: City of Rochester

Project Name: _____ Project Number: _____

Location: DPE-6 Date: 9/29/09

Station: _____ Sample time: 04:30

Casing diameter:	4	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	19.5							
Static water level:	15.71		18.6	1086	8.39	98.6	7.80	
Water depth[1]:	3.79							
Well volume (gal):	2.4							
Purge method:	DED							
Sample Method:	GRAB							
Start time:	—							
Stop time:	—							
Duration (min.):	—	Odor:						
Rate, gpm:	—	Purge appearance:	Brown					
Volume purged:	—	Sample appearance:	Lt Brown					
Duplicate collected?	—	Comments:						
Sampled by:	—							
Others present:		Well Condition						
Analysis:	VOC Semi-volatile general COD TOC nutrient cyanide oil,grease whirl pak total metal filtered metal 500 ml filter in-line filter others:							

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

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

Field Information Data Sheet

Landmark Environmental, LLC

Client Name: City of Rochester

Project Name: _____ Project Number: _____

Location: DPE-7 Date: 9/29/09

Station: _____ Sample time: 05:00

Casing diameter:	4	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	22.2							
Static water level:	16.92		17.15	2216	7.01	196	2.14	
Water depth[1]:	5.28							
Well volume (gal):	3.4							
Purge method:	DED							
Sample Method:	GRAB							
Start time:	—							
Stop time:	—							
Duration (min.):	—	Odor:						
Rate, gpm:	—	Purge appearance:		Brown				
Volume purged:		Sample appearance:						
Duplicate collected?		Comments:						
Sampled by:								
Others present:				Well Condition				
Analysis:	VOC Semi-volatile general COD TOC nutrient cyanide oil,grease whirl pak total metal filtered metal 500 ml filter in-line filter others:							
MW:gw monitoring well WS:water supply well SW:surface water SE:sediment other:								

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

Field Information Data Sheet

Landmark Environmental, LLC

Client Name: City of Rocklin

Project Name: DPE-8 Project Number:

Location: Date: 9/28/09

Station: Sample time: 05:30

Casing diameter:	4	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	17.5							
Static water level:	14.43		17.31	2826	7.93	460	6.61	
Water depth[1]:	3.07							
Well volume (gal):	2							
Purge method:	DED							
Sample Method:	GRAB							
Start time:	—							
Stop time:	—							
Duration (min.):	—	Odor:						
Rate, gpm:	—	Purge appearance:						
Volume purged:	—	Sample appearance:						
Duplicate collected?	—	Comments:						
Sampled by:	—							
Others present:				Well Condition				
Analysis:	VOC Semi-volatile general COD TOC nutrient cyanide oil,grease whirl pak total metal filtered metal 500 ml filter in-line filter others:							
MW:gw monitoring well WS:water supply well SW:surface water SE:sediment other:								

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

Field Information Data Sheet

Landmark Environmental, LLC

Client Name: City of Rochester

Project Name: _____ Project Number: _____

Location: MW-14 Date: 10/1/09

Station: _____ Sample time: 04:00

Casing diameter:		Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	17.5							
Static water level:	12.66		10.9	1825	7.84	181	3.8	
Water depth[1]:	4.84		18.9	1825	7.84	181	3.7	
Well volume (gal):	.8		18.8	1825	7.84	181	3.6	
Purge method:	Whale							
Sample Method:	~~Bailer~~ Bailer							
Start time:	/							
Stop time:	/							
Duration (min.):	/	Odor:						
Rate, gpm:	/	Purge appearance:	Cloudy / Red					
Volume purged:	4.0	Sample appearance:	Cloudy / Red					
Duplicate collected?	NO	Comments:						
Sampled by:	JCL							
Others present:		Well Condition	NCW					
Analysis:	VOC Semi-volatile general COD TOC nutrient cyanide oil,grease whirl pak total metal filtered metal 500 ml filter in-line filter others:							

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

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

Field Information Data Sheet

Landmark Environmental, LLC

Client Name: City of Rochester

Project Name: _____ Project Number: _____

Location: _____ Date: 10/1/09

Station: MW-15 Sample time: 04:20

Casing diameter:	2	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	18							
Static water level:	15.74		18.4	920	8.08	167	5.22	
Water depth[1]:	2.26							
Well volume (gal):	0.4							
Purge method:	Whale							
Sample Method:	Bailer							
Start time:	—							
Stop time:	—							
Duration (min.):	—	Odor:						
Rate, gpm:	—	Purge appearance:	My Brown					
Volume purged:	—	Sample appearance:						
Duplicate collected?	—	Comments:	1 gallon dry					
Sampled by:	—							
Others present:		Well Condition						
Analysis:	VOC Semi-volatile general COD TOC nutrient cyanide oil,grease whirl pak total metal filtered metal 500 ml filter in-line filter others:							

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

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

Field Information Data Sheet

Landmark Environmental, LLC

Client Name: City of Rochester

Project Name: _____ Project Number: CRC

Location: MW16 Date: 10-1-09

Station: _____ Sample time: 04:55

Casing diameter:	2	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	18 —							
Static water level:	13.68		16.27	1182	7.46	214	9.68	
Water depth[1]:	4.32							
Well volume (gal):	.7							
Purge method:	whale							
Sample Method:	Bailer							
Start time:	—							
Stop time:	—							
Duration (min.):	—	Odor:	NO					
Rate, gpm:	.5 gpm	Purge appearance:	Dark Brown					
Volume purged:	1.0	Sample appearance:	cloudy					
Duplicate collected?	NO	Comments: Pumped dry						
Sampled by:	JEB							
Others present:		Well Condition						
Analysis:	VOC Semi-volatile general COD TOC nutrient cyanide oil,grease whirl pak total metal filtered metal 500 ml filter in-line filter others:							

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

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

Field Information Data Sheet

Landmark Environmental, LLC

Client Name: City of Rochester

Project Name: _____ Project Number: ORC

Location: MW17 Date: 10/11/09

Station: _____ Sample time: 05:20

Casing diameter:	2	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	25							
Static water level:	14.37		17.6	1428	8.6	175	1.99	
Water depth[1]:	10.63							
Well volume (gal):	1.7							
Purge method:	Whale							
Sample Method:	Bailer							
Start time:	—							
Stop time:	—							
Duration (min.):	—	Odor:						
Rate, gpm:	.5 gpm	Purge appearance:						
Volume purged:	2 gallons	Sample appearance:						
Duplicate collected?	No	Comments:						
Sampled by:	N							
Others present:			Well Condition					
Analysis:	VOC Semi-volatile general COD TOC nutrient cyanide oil,grease whirl pak total metal filtered metal 500 ml filter in-line filter others:							

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

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

Field Information Data Sheet

Landmark Environmental, LLC

Client Name: City of Rochester

Project Name: _____ Project Number: CRC

Location: MW 10 Date: 10/1/09

Station: _____ Sample time: 05:45

Casing diameter:	2	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	60							
Static water level:	15.31		17.8	1497	7.75	76	1.47	
Water depth[1]:	44.69							
Well volume (gal):	7.2							
Purge method:	Whall							
Sample Method:	Bailer							
Start time:	—							
Stop time:	—							
Duration (min.):	—	Odor:						
Rate, gpm:	0.5 gpm	Purge appearance:	Brown					
Volume purged:	8 gallons ~~NA~~	Sample appearance:	Brown					
Duplicate collected?	No	Comments: 8 gallons dry						
Sampled by:								
Others present:		Well Condition						
Analysis:	VOC Semi-volatile general COD TOC nutrient cyanide oil,grease whirl pak total metal filtered metal 500 ml filter in-line filter others:							

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

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

Field Information Data Sheet

Landmark Environmental, LLC

Client Name: City of Rochester

Project Name: MW-19 Project Number:

Location: Date: 9/28/09

Station: Sample time: 11:40

Casing diameter:	2	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	20							
Static water level:	14.83		15.6	3667	7.03	163	225	
Water depth[1]:	5.17							
Well volume (gal):	0.84							
Purge method:	Whale							
Sample Method:	Bailer							
Start time:	—							
Stop time:	—							
Duration (min.):	—	Odor:						
Rate, gpm:	—	Purge appearance:						
Volume purged:	—	Sample appearance:						
Duplicate collected?	—	Comments: Dry - 1 gallon						
Sampled by:	—							
Others present:				Well Condition				
Analysis:	VOC Semi-volatile general COD TOC nutrient cyanide oil,grease whirl pak total metal filtered metal 500 ml filter in-line filter others:							
MW:gw monitoring well WS:water supply well SW:surface water SE:sediment other:								

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

Field Information Data Sheet

Landmark Environmental, LLC

Client Name: City of Rochester

Project Name: _____ Project Number: _____

Location: MW-20 Date: 10/1/09

Station: _____ Sample time: 08:00

Casing diameter:	2	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	16.7							
Static water level:	12.78		17.5	4008	7.31	317	6.19	
Water depth[1]:	3.92							
Well volume (gal):	0.6							
Purge method:	Whale							
Sample Method:	Bailer							
Start time:	—							
Stop time:	—							
Duration (min.):	—	Odor:						
Rate, gpm:	—	Purge appearance:	Brown					
Volume purged:	—	Sample appearance:	Brown					
Duplicate collected?	—	Comments: 1 gallon Dry						
Sampled by:	C							
Others present:		Well Condition						
Analysis:	VOC Semi-volatile general COD TOC nutrient cyanide oil,grease whirl pak total metal filtered metal 500 ml filter in-line filter others:							
MW:gw monitoring well WS:water supply well SW:surface water SE:sediment other:								

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

Attachment B

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

ANALYTICAL RESULTS

Client: Landmark Environmental
Phone: 952-887-9601

Lab Project Number: 10114961
Project Name: CRC City of Rochester

Lab Sample No: 10114961001 ProjSampleNum: 10114961001 Date Collected: 10/15/09 14:45
Client Sample ID: DPE-OUTLET-253 Matrix: Air Date Received: 10/19/09 12:42

Air

TO-15

Parameters	Results	Units	Report Limit	DF	Analyzed		CAS No.	Qualifiers
1,1,1-Trichloroethane	0.757	ppbv	0.29	1.48	10/20/09 18:55	DB1	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ppbv	0.3	1.48	10/20/09 18:55	DB1	79-34-5	
1,1,2-Trichloroethane	ND	ppbv	0.29	1.48	10/20/09 18:55	DB1	79-00-5	
1,1,2-Trichlorotrifluoroethane	12600	ppbv	200	947.6	10/23/09 11:22	DB1	76-13-1	A3
1,1-Dichloroethane	ND	ppbv	0.29	1.48	10/20/09 18:55	DB1	75-34-3	
1,1-Dichloroethene	ND	ppbv	0.3	1.48	10/20/09 18:55	DB1	75-35-4	
1,2,4-Trichlorobenzene	ND	ppbv	0.2	1.48	10/20/09 18:55	DB1	120-82-1	
1,2,4-Trimethylbenzene	ND	ppbv	0.74	1.48	10/20/09 18:55	DB1	95-63-6	
1,2-Dibromoethane (EDB)	ND	ppbv	0.31	1.48	10/20/09 18:55	DB1	106-93-4	
1,2-Dichlorobenzene	ND	ppbv	0.29	1.48	10/20/09 18:55	DB1	95-50-1	
1,2-Dichloroethane	ND	ppbv	0.29	1.48	10/20/09 18:55	DB1	107-06-2	
1,2-Dichloropropane	ND	ppbv	0.3	1.48	10/20/09 18:55	DB1	78-87-5	
1,3,5-Trimethylbenzene	ND	ppbv	0.74	1.48	10/20/09 18:55	DB1	108-67-8	
1,3-Butadiene	ND	ppbv	0.3	1.48	10/20/09 18:55	DB1	106-99-0	
1,3-Dichlorobenzene	ND	ppbv	0.29	1.48	10/20/09 18:55	DB1	541-73-1	
1,4-Dichlorobenzene	ND	ppbv	0.29	1.48	10/20/09 18:55	DB1	106-46-7	
2-Butanone (MEK)	ND	ppbv	0.3	1.48	10/20/09 18:55	DB1	78-93-3	
2-Hexanone	ND	ppbv	0.29	1.48	10/20/09 18:55	DB1	591-78-6	
2-Propanol	ND	ppbv	1.5	1.48	10/20/09 18:55	DB1	67-63-0	
4-Ethyltoluene	ND	ppbv	0.74	1.48	10/20/09 18:55	DB1	622-96-8	
4-Methyl-2-pentanone (MIBK)	ND	ppbv	0.29	1.48	10/20/09 18:55	DB1	108-10-1	
Acetone	207	ppbv	5.9	29.6	10/22/09 19:14	DB1	67-64-1	
Benzene	0.462	ppbv	0.3	1.48	10/20/09 18:55	DB1	71-43-2	
Bromodichloromethane	ND	ppbv	0.31	1.48	10/20/09 18:55	DB1	75-27-4	
Bromoform	ND	ppbv	0.3	1.48	10/20/09 18:55	DB1	75-25-2	
Bromomethane	ND	ppbv	0.3	1.48	10/20/09 18:55	DB1	74-83-9	
Carbon disulfide	ND	ppbv	0.29	1.48	10/20/09 18:55	DB1	75-15-0	
Carbon tetrachloride	ND	ppbv	0.3	1.48	10/20/09 18:55	DB1	56-23-5	
Chlorobenzene	ND	ppbv	0.3	1.48	10/20/09 18:55	DB1	108-90-7	
Chloroethane	ND	ppbv	0.3	1.48	10/20/09 18:55	DB1	75-00-3	
Chloroform	ND	ppbv	0.3	1.48	10/20/09 18:55	DB1	67-66-3	
Chloromethane	ND	ppbv	0.3	1.48	10/20/09 18:55	DB1	74-87-3	
cis-1,2-Dichloroethene	5.33	ppbv	0.3	1.48	10/20/09 18:55	DB1	156-59-2	
cis-1,3-Dichloropropene	ND	ppbv	0.3	1.48	10/20/09 18:55	DB1	10061-01-5	
Cyclohexane	ND	ppbv	0.29	1.48	10/20/09 18:55	DB1	110-82-7	

SUPPLEMENTAL REPORT
Units Conversion Request

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

ANALYTICAL RESULTS

Client: Landmark Environmental
Phone: 952-887-9601

Lab Project Number: 10114961
Project Name: CRC City of Rochester

Dibromochloromethane	ND	ppbv	0.29	1.48	10/20/09 18:55	DB1	124-48-1	
Dichlorodifluoromethane	0.557	ppbv	0.3	1.48	10/20/09 18:55	DB1	75-71-8	
Dichlorotetrafluoroethane	ND	ppbv	0.3	1.48	10/20/09 18:55	DB1	76-14-2	
Ethanol	4.39	ppbv	1.5	1.48	10/20/09 18:55	DB1	64-17-5	
Ethyl acetate	ND	ppbv	0.3	1.48	10/20/09 18:55	DB1	141-78-6	
Ethylbenzene	ND	ppbv	0.29	1.48	10/20/09 18:55	DB1	100-41-4	
Hexachloro-1,3-butadiene	ND	ppbv	0.3	1.48	10/20/09 18:55	DB1	87-68-3	
m&p-Xylene	0.589	ppbv	0.59	1.48	10/20/09 18:55	DB1	1330-20-7	
Methylene Chloride	78.2	ppbv	5.9	29.6	10/22/09 19:14	DB1	75-09-2	
Methyl-tert-butyl ether	ND	ppbv	0.3	1.48	10/20/09 18:55	DB1	1634-04-4	
Naphthalene	ND	ppbv	0.75	1.48	10/20/09 18:55	DB1	91-20-3	
n-Heptane	ND	ppbv	0.29	1.48	10/20/09 18:55	DB1	142-82-5	
n-Hexane	9.88	ppbv	5.9	29.6	10/22/09 19:14	DB1	110-54-3	
o-Xylene	ND	ppbv	0.29	1.48	10/20/09 18:55	DB1	95-47-6	
Propylene	ND	ppbv	0.3	1.48	10/20/09 18:55	DB1	115-07-1	
Styrene	ND	ppbv	0.3	1.48	10/20/09 18:55	DB1	100-42-5	
Tetrachloroethene	57400	ppbv	190	947.6	10/23/09 11:22	DB1	127-18-4	E
Tetrahydrofuran	ND	ppbv	0.3	1.48	10/20/09 18:55	DB1	109-99-9	
Toluene	2.69	ppbv	0.29	1.48	10/20/09 18:55	DB1	108-88-3	
trans-1,2-Dichloroethene	ND	ppbv	0.3	1.48	10/20/09 18:55	DB1	156-60-5	
trans-1,3-Dichloropropene	ND	ppbv	0.3	1.48	10/20/09 18:55	DB1	10061-02-6	
Trichloroethene	2.49	ppbv	0.29	1.48	10/20/09 18:55	DB1	79-01-6	
Trichlorofluoromethane	0.298	ppbv	0.28	1.48	10/20/09 18:55	DB1	75-69-4	
Vinyl acetate	ND	ppbv	0.31	1.48	10/20/09 18:55	DB1	108-05-4	
Vinyl chloride	ND	ppbv	0.3	1.48	10/20/09 18:55	DB1	75-01-4	

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

Pace Analytical Services, Inc.
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Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Landmark Environmental
Phone: 952-887-9601

Lab Project Number: 10114961
Project Name: CRC City of Rochester

Lab Sample No: 10114961002 ProjSampleNum: 10114961002 Date Collected: 10/16/09 12:15
Client Sample ID: DPE-OUTLET-531 Matrix: Air Date Received: 10/19/09 12:42

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air							
TO-15							
1,1,1-Trichloroethane	14.7	ppbv	0.31	1.54	10/20/09 19:26 DB1	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ppbv	0.32	1.54	10/20/09 19:26 DB1	79-34-5	
1,1,2-Trichloroethane	ND	ppbv	0.31	1.54	10/20/09 19:26 DB1	79-00-5	
1,1,2-Trichlorotrifluoroethane	22.1	ppbv	0.32	1.54	10/20/09 19:26 DB1	76-13-1	
1,1-Dichloroethane	ND	ppbv	0.32	1.54	10/20/09 19:26 DB1	75-34-3	
1,1-Dichloroethene	3.45	ppbv	0.3	1.54	10/20/09 19:26 DB1	75-35-4	
1,2,4-Trichlorobenzene	ND	ppbv	0.2	1.54	10/20/09 19:26 DB1	120-82-1	
1,2,4-Trimethylbenzene	ND	ppbv	0.76	1.54	10/20/09 19:26 DB1	95-63-6	
1,2-Dibromoethane (EDB)	ND	ppbv	0.32	1.54	10/20/09 19:26 DB1	106-93-4	
1,2-Dichlorobenzene	ND	ppbv	0.29	1.54	10/20/09 19:26 DB1	95-50-1	
1,2-Dichloroethane	ND	ppbv	0.32	1.54	10/20/09 19:26 DB1	107-06-2	
1,2-Dichloropropane	ND	ppbv	0.3	1.54	10/20/09 19:26 DB1	78-87-5	
1,3,5-Trimethylbenzene	ND	ppbv	0.76	1.54	10/20/09 19:26 DB1	108-67-8	
1,3-Butadiene	ND	ppbv	0.31	1.54	10/20/09 19:26 DB1	106-99-0	
1,3-Dichlorobenzene	ND	ppbv	0.29	1.54	10/20/09 19:26 DB1	541-73-1	
1,4-Dichlorobenzene	ND	ppbv	0.29	1.54	10/20/09 19:26 DB1	106-46-7	
2-Butanone (MEK)	4.07	ppbv	0.31	1.54	10/20/09 19:26 DB1	78-93-3	
2-Hexanone	ND	ppbv	0.31	1.54	10/20/09 19:26 DB1	591-78-6	
2-Propanol	1.96	ppbv	1.5	1.54	10/20/09 19:26 DB1	67-63-0	
4-Ethyltoluene	ND	ppbv	0.76	1.54	10/20/09 19:26 DB1	622-96-8	
4-Methyl-2-pentanone (MIBK)	ND	ppbv	0.31	1.54	10/20/09 19:26 DB1	108-10-1	
Acetone	15300	ppbv	780	3942.4	10/22/09 15:42 DB1	67-64-1	A3
Benzene	0.339	ppbv	0.31	1.54	10/20/09 19:26 DB1	71-43-2	
Bromodichloromethane	ND	ppbv	0.32	1.54	10/20/09 19:26 DB1	75-27-4	
Bromoform	ND	ppbv	0.3	1.54	10/20/09 19:26 DB1	75-25-2	
Bromomethane	ND	ppbv	0.3	1.54	10/20/09 19:26 DB1	74-83-9	
Carbon disulfide	ND	ppbv	0.31	1.54	10/20/09 19:26 DB1	75-15-0	
Carbon tetrachloride	ND	ppbv	0.31	1.54	10/20/09 19:26 DB1	56-23-5	
Chlorobenzene	ND	ppbv	0.3	1.54	10/20/09 19:26 DB1	108-90-7	
Chloroethane	ND	ppbv	0.31	1.54	10/20/09 19:26 DB1	75-00-3	
Chloroform	5.2	ppbv	0.3	1.54	10/20/09 19:26 DB1	67-66-3	
Chloromethane	ND	ppbv	0.31	1.54	10/20/09 19:26 DB1	74-87-3	
cis-1,2-Dichloroethene	63.8	ppbv	0.3	1.54	10/20/09 19:26 DB1	156-59-2	E
cis-1,3-Dichloropropene	ND	ppbv	0.3	1.54	10/20/09 19:26 DB1	10061-01-5	
Cyclohexane	ND	ppbv	0.29	1.54	10/20/09 19:26 DB1	110-82-7	

SUPPLEMENTAL REPORT
Units Conversion Request

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

ANALYTICAL RESULTS

Client: Landmark Environmental
Phone: 952-887-9601

Lab Project Number: 10114961
Project Name: CRC City of Rochester

Dibromochloromethane	ND	ppbv	0.3	1.54	10/20/09 19:26	DB1	124-48-1	
Dichlorodifluoromethane	ND	ppbv	0.3	1.54	10/20/09 19:26	DB1	75-71-8	
Dichlorotetrafluoroethane	ND	ppbv	0.31	1.54	10/20/09 19:26	DB1	76-14-2	
Ethanol	4.65	ppbv	1.5	1.54	10/20/09 19:26	DB1	64-17-5	
Ethyl acetate	ND	ppbv	0.3	1.54	10/20/09 19:26	DB1	141-78-6	
Ethylbenzene	1.79	ppbv	0.32	1.54	10/20/09 19:26	DB1	100-41-4	
Hexachloro-1,3-butadiene	ND	ppbv	0.31	1.54	10/20/09 19:26	DB1	87-68-3	
m&p-Xylene	5.66	ppbv	0.61	1.54	10/20/09 19:26	DB1	1330-20-7	
Methylene Chloride	ND	ppbv	0.31	1.54	10/20/09 19:26	DB1	75-09-2	
Methyl-tert-butyl ether	ND	ppbv	0.3	1.54	10/20/09 19:26	DB1	1634-04-4	
Naphthalene	1.05	ppbv	0.79	1.54	10/20/09 19:26	DB1	91-20-3	CH
n-Heptane	ND	ppbv	0.31	1.54	10/20/09 19:26	DB1	142-82-5	
n-Hexane	0.586	ppbv	0.31	1.54	10/20/09 19:26	DB1	110-54-3	
o-Xylene	1.7	ppbv	0.32	1.54	10/20/09 19:26	DB1	95-47-6	
Propylene	ND	ppbv	0.31	1.54	10/20/09 19:26	DB1	115-07-1	
Styrene	ND	ppbv	0.3	1.54	10/20/09 19:26	DB1	100-42-5	
Tetrachloroethene	82800	ppbv	800	3942.4	10/22/09 15:42	DB1	127-18-4	A3
Tetrahydrofuran	12.1	ppbv	0.31	1.54	10/20/09 19:26	DB1	109-99-9	
Toluene	4.59	ppbv	0.31	1.54	10/20/09 19:26	DB1	108-88-3	
trans-1,2-Dichloroethene	ND	ppbv	0.3	1.54	10/20/09 19:26	DB1	156-60-5	
trans-1,3-Dichloropropene	ND	ppbv	0.3	1.54	10/20/09 19:26	DB1	10061-02-6	
Trichloroethene	28	ppbv	0.31	1.54	10/20/09 19:26	DB1	79-01-6	
Trichlorofluoromethane	ND	ppbv	0.3	1.54	10/20/09 19:26	DB1	75-69-4	
Vinyl acetate	2.07	ppbv	0.31	1.54	10/20/09 19:26	DB1	108-05-4	
Vinyl chloride	ND	ppbv	0.31	1.54	10/20/09 19:26	DB1	75-01-4	

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

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

ANALYTICAL RESULTS

Client: Landmark Environmental
Phone: 952-887-9601

Lab Project Number: 10114961
Project Name: CRC City of Rochester

PARAMETER FOOTNOTES

ND Not detected at or above adjusted reporting limit

NC Not Calculable

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

[A3] The sample was analyzed by serial dilution.

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

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

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

October 26, 2009

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

RE: Project: CRC City of Rochester
Pace Project No.: 10114961

Dear Mr. Skramstad:
Enclosed are the analytical results for sample(s) received by the laboratory on October 19, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Diane J. Anderson for
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: CRC City of Rochester
Pace Project No.: 10114961

Minnesota Certification IDs

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

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.: 10114961

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10114961001	**DPE-OUTLET-253**	Air	10/15/09 14:45	10/19/09 12:42
10114961002	**DPE-OUTLET-531**	Air	10/16/09 12:15	10/19/09 12:42

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.: 10114961

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10114961001	**DPE-OUTLET-253**	TO-15	DB1	60
10114961002	**DPE-OUTLET-531**	TO-15	DB1	60

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.: 10114961

Sample: DPE-OUTLET-253 **Lab ID: 10114961001** Collected: 10/15/09 14:45 Received: 10/19/09 12:42 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	**501**	ug/m3	14.2	29.6		10/22/09 19:14	67-64-1	
Benzene	**1.5**	ug/m3	0.96	1.48		10/20/09 18:55	71-43-2	
Bromodichloromethane	ND	ug/m3	2.1	1.48		10/20/09 18:55	75-27-4	
Bromoform	ND	ug/m3	3.1	1.48		10/20/09 18:55	75-25-2	
Bromomethane	ND	ug/m3	1.2	1.48		10/20/09 18:55	74-83-9	
1,3-Butadiene	ND	ug/m3	0.67	1.48		10/20/09 18:55	106-99-0	
2-Butanone (MEK)	ND	ug/m3	0.89	1.48		10/20/09 18:55	78-93-3	
Carbon disulfide	ND	ug/m3	0.93	1.48		10/20/09 18:55	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.9	1.48		10/20/09 18:55	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	1.48		10/20/09 18:55	108-90-7	
Chloroethane	ND	ug/m3	0.80	1.48		10/20/09 18:55	75-00-3	
Chloroform	ND	ug/m3	1.5	1.48		10/20/09 18:55	67-66-3	
Chloromethane	ND	ug/m3	0.62	1.48		10/20/09 18:55	74-87-3	
Cyclohexane	ND	ug/m3	1.0	1.48		10/20/09 18:55	110-82-7	
Dibromochloromethane	ND	ug/m3	2.5	1.48		10/20/09 18:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.4	1.48		10/20/09 18:55	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.8	1.48		10/20/09 18:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.8	1.48		10/20/09 18:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.8	1.48		10/20/09 18:55	106-46-7	
Dichlorodifluoromethane	**2.8**	ug/m3	1.5	1.48		10/20/09 18:55	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	1.48		10/20/09 18:55	75-34-3	
1,2-Dichloroethane	ND	ug/m3	1.2	1.48		10/20/09 18:55	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	1.48		10/20/09 18:55	75-35-4	
cis-1,2-Dichloroethene	**21.5**	ug/m3	1.2	1.48		10/20/09 18:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.48		10/20/09 18:55	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	1.48		10/20/09 18:55	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	1.48		10/20/09 18:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	1.48		10/20/09 18:55	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.1	1.48		10/20/09 18:55	76-14-2	
Ethanol	**8.4**	ug/m3	2.8	1.48		10/20/09 18:55	64-17-5	
Ethyl acetate	ND	ug/m3	1.1	1.48		10/20/09 18:55	141-78-6	
Ethylbenzene	ND	ug/m3	1.3	1.48		10/20/09 18:55	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.7	1.48		10/20/09 18:55	622-96-8	
n-Heptane	ND	ug/m3	1.2	1.48		10/20/09 18:55	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.3	1.48		10/20/09 18:55	87-68-3	
n-Hexane	**35.4**	ug/m3	21.3	29.6		10/22/09 19:14	110-54-3	
2-Hexanone	ND	ug/m3	1.2	1.48		10/20/09 18:55	591-78-6	
Methylene Chloride	**276**	ug/m3	21.0	29.6		10/22/09 19:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.2	1.48		10/20/09 18:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.1	1.48		10/20/09 18:55	1634-04-4	
Naphthalene	ND	ug/m3	4.0	1.48		10/20/09 18:55	91-20-3	
2-Propanol	ND	ug/m3	3.7	1.48		10/20/09 18:55	67-63-0	
Propylene	ND	ug/m3	0.52	1.48		10/20/09 18:55	115-07-1	
Styrene	ND	ug/m3	1.3	1.48		10/20/09 18:55	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	2.1	1.48		10/20/09 18:55	79-34-5	
Tetrachloroethene	**396000**	ug/m3	1330	947.6		10/23/09 11:22	127-18-4	E
Tetrahydrofuran	ND	ug/m3	0.89	1.48		10/20/09 18:55	109-99-9	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10114961

Sample: DPE-OUTLET-253 **Lab ID: 10114961001** Collected: 10/15/09 14:45 Received: 10/19/09 12:42 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Toluene	**10.3**	ug/m3	1.1	1.48		10/20/09 18:55	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.5	1.48		10/20/09 18:55	120-82-1	
1,1,1-Trichloroethane	**4.2**	ug/m3	1.6	1.48		10/20/09 18:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1.6	1.48		10/20/09 18:55	79-00-5	
Trichloroethene	**13.6**	ug/m3	1.6	1.48		10/20/09 18:55	79-01-6	
Trichlorofluoromethane	**1.7**	ug/m3	1.6	1.48		10/20/09 18:55	75-69-4	
1,1,2-Trichlorotrifluoroethane	**97900**	ug/m3	1520	947.6		10/23/09 11:22	76-13-1	A3
1,2,4-Trimethylbenzene	ND	ug/m3	3.7	1.48		10/20/09 18:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	3.7	1.48		10/20/09 18:55	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	1.48		10/20/09 18:55	108-05-4	
Vinyl chloride	ND	ug/m3	0.77	1.48		10/20/09 18:55	75-01-4	
m&p-Xylene	**2.6**	ug/m3	2.6	1.48		10/20/09 18:55	1330-20-7	
o-Xylene	ND	ug/m3	1.3	1.48		10/20/09 18:55	95-47-6	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10114961

Sample: DPE-OUTLET-531 **Lab ID: 10114961002** Collected: 10/16/09 12:15 Received: 10/19/09 12:42 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	**37000**	ug/m3	1890	3942.4		10/22/09 15:42	67-64-1	A3
Benzene	**1.1**	ug/m3	1.0	1.54		10/20/09 19:26	71-43-2	
Bromodichloromethane	ND	ug/m3	2.2	1.54		10/20/09 19:26	75-27-4	
Bromoform	ND	ug/m3	3.2	1.54		10/20/09 19:26	75-25-2	
Bromomethane	ND	ug/m3	1.2	1.54		10/20/09 19:26	74-83-9	
1,3-Butadiene	ND	ug/m3	0.69	1.54		10/20/09 19:26	106-99-0	
2-Butanone (MEK)	**12.2**	ug/m3	0.92	1.54		10/20/09 19:26	78-93-3	
Carbon disulfide	ND	ug/m3	0.97	1.54		10/20/09 19:26	75-15-0	
Carbon tetrachloride	ND	ug/m3	2.0	1.54		10/20/09 19:26	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	1.54		10/20/09 19:26	108-90-7	
Chloroethane	ND	ug/m3	0.83	1.54		10/20/09 19:26	75-00-3	
Chloroform	**25.8**	ug/m3	1.5	1.54		10/20/09 19:26	67-66-3	
Chloromethane	ND	ug/m3	0.65	1.54		10/20/09 19:26	74-87-3	
Cyclohexane	ND	ug/m3	1.0	1.54		10/20/09 19:26	110-82-7	
Dibromochloromethane	ND	ug/m3	2.6	1.54		10/20/09 19:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.5	1.54		10/20/09 19:26	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.8	1.54		10/20/09 19:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.8	1.54		10/20/09 19:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.8	1.54		10/20/09 19:26	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.5	1.54		10/20/09 19:26	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.3	1.54		10/20/09 19:26	75-34-3	
1,2-Dichloroethane	ND	ug/m3	1.3	1.54		10/20/09 19:26	107-06-2	
1,1-Dichloroethene	**13.9**	ug/m3	1.2	1.54		10/20/09 19:26	75-35-4	
cis-1,2-Dichloroethene	**257**	ug/m3	1.2	1.54		10/20/09 19:26	156-59-2	E
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.54		10/20/09 19:26	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	1.54		10/20/09 19:26	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	1.54		10/20/09 19:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	1.54		10/20/09 19:26	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.2	1.54		10/20/09 19:26	76-14-2	
Ethanol	**8.9**	ug/m3	2.9	1.54		10/20/09 19:26	64-17-5	
Ethyl acetate	ND	ug/m3	1.1	1.54		10/20/09 19:26	141-78-6	
Ethylbenzene	**7.9**	ug/m3	1.4	1.54		10/20/09 19:26	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.8	1.54		10/20/09 19:26	622-96-8	
n-Heptane	ND	ug/m3	1.3	1.54		10/20/09 19:26	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.4	1.54		10/20/09 19:26	87-68-3	
n-Hexane	**2.1**	ug/m3	1.1	1.54		10/20/09 19:26	110-54-3	
2-Hexanone	ND	ug/m3	1.3	1.54		10/20/09 19:26	591-78-6	
Methylene Chloride	ND	ug/m3	1.1	1.54		10/20/09 19:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.3	1.54		10/20/09 19:26	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.1	1.54		10/20/09 19:26	1634-04-4	
Naphthalene	**5.6**	ug/m3	4.2	1.54		10/20/09 19:26	91-20-3	CH
2-Propanol	**4.9**	ug/m3	3.8	1.54		10/20/09 19:26	67-63-0	
Propylene	ND	ug/m3	0.54	1.54		10/20/09 19:26	115-07-1	
Styrene	ND	ug/m3	1.3	1.54		10/20/09 19:26	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	2.2	1.54		10/20/09 19:26	79-34-5	
Tetrachloroethene	**571000**	ug/m3	5520	3942.4		10/22/09 15:42	127-18-4	A3
Tetrahydrofuran	**36.2**	ug/m3	0.92	1.54		10/20/09 19:26	109-99-9	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10114961

Sample: DPE-OUTLET-531 **Lab ID: 10114961002** Collected: 10/16/09 12:15 Received: 10/19/09 12:42 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Toluene	**17.6**	ug/m3	1.2	1.54		10/20/09 19:26	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.5	1.54		10/20/09 19:26	120-82-1	
1,1,1-Trichloroethane	**81.7**	ug/m3	1.7	1.54		10/20/09 19:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1.7	1.54		10/20/09 19:26	79-00-5	
Trichloroethene	**153**	ug/m3	1.7	1.54		10/20/09 19:26	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.7	1.54		10/20/09 19:26	75-69-4	
1,1,2-Trichlorotrifluoroethane	**172**	ug/m3	2.5	1.54		10/20/09 19:26	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	3.8	1.54		10/20/09 19:26	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	3.8	1.54		10/20/09 19:26	108-67-8	
Vinyl acetate	**7.4**	ug/m3	1.1	1.54		10/20/09 19:26	108-05-4	
Vinyl chloride	ND	ug/m3	0.80	1.54		10/20/09 19:26	75-01-4	
m&p-Xylene	**25.0**	ug/m3	2.7	1.54		10/20/09 19:26	1330-20-7	
o-Xylene	**7.5**	ug/m3	1.4	1.54		10/20/09 19:26	95-47-6	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10114961

QC Batch: AIR/9282
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10114961001, 10114961002

METHOD BLANK: 699451
Matrix: Air
Associated Lab Samples: 10114961001, 10114961002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	10/20/09 15:26	
1,1,2,2-Tetrachloroethane	ug/m3	ND	1.4	10/20/09 15:26	
1,1,2-Trichloroethane	ug/m3	ND	1.1	10/20/09 15:26	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	10/20/09 15:26	
1,1-Dichloroethane	ug/m3	ND	0.82	10/20/09 15:26	
1,1-Dichloroethene	ug/m3	ND	0.81	10/20/09 15:26	
1,2,4-Trichlorobenzene	ug/m3	ND	0.99	10/20/09 15:26	
1,2,4-Trimethylbenzene	ug/m3	ND	2.5	10/20/09 15:26	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	10/20/09 15:26	
1,2-Dichlorobenzene	ug/m3	ND	1.2	10/20/09 15:26	
1,2-Dichloroethane	ug/m3	ND	0.82	10/20/09 15:26	
1,2-Dichloropropane	ug/m3	ND	0.94	10/20/09 15:26	
1,3,5-Trimethylbenzene	ug/m3	ND	2.5	10/20/09 15:26	
1,3-Butadiene	ug/m3	ND	0.45	10/20/09 15:26	
1,3-Dichlorobenzene	ug/m3	ND	1.2	10/20/09 15:26	
1,4-Dichlorobenzene	ug/m3	ND	1.2	10/20/09 15:26	
2-Butanone (MEK)	ug/m3	ND	0.60	10/20/09 15:26	
2-Hexanone	ug/m3	ND	0.83	10/20/09 15:26	
2-Propanol	ug/m3	ND	2.5	10/20/09 15:26	
4-Ethyltoluene	ug/m3	ND	2.5	10/20/09 15:26	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	0.83	10/20/09 15:26	
Acetone	ug/m3	ND	0.48	10/20/09 15:26	
Benzene	ug/m3	ND	0.65	10/20/09 15:26	
Bromodichloromethane	ug/m3	ND	1.4	10/20/09 15:26	
Bromoform	ug/m3	ND	2.1	10/20/09 15:26	
Bromomethane	ug/m3	ND	0.79	10/20/09 15:26	
Carbon disulfide	ug/m3	ND	0.63	10/20/09 15:26	
Carbon tetrachloride	ug/m3	ND	1.3	10/20/09 15:26	
Chlorobenzene	ug/m3	ND	0.94	10/20/09 15:26	
Chloroethane	ug/m3	ND	0.54	10/20/09 15:26	
Chloroform	ug/m3	ND	0.99	10/20/09 15:26	
Chloromethane	ug/m3	ND	0.42	10/20/09 15:26	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	10/20/09 15:26	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	10/20/09 15:26	
Cyclohexane	ug/m3	ND	0.68	10/20/09 15:26	
Dibromochloromethane	ug/m3	ND	1.7	10/20/09 15:26	
Dichlorodifluoromethane	ug/m3	ND	1.0	10/20/09 15:26	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	10/20/09 15:26	
Ethanol	ug/m3	ND	1.9	10/20/09 15:26	
Ethyl acetate	ug/m3	ND	0.73	10/20/09 15:26	
Ethylbenzene	ug/m3	ND	0.88	10/20/09 15:26	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	10/20/09 15:26	
m&p-Xylene	ug/m3	ND	1.8	10/20/09 15:26	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10114961

METHOD BLANK: 699451 Matrix: Air

Associated Lab Samples: 10114961001, 10114961002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methyl-tert-butyl ether	ug/m3	ND	0.73	10/20/09 15:26	
Methylene Chloride	ug/m3	ND	0.71	10/20/09 15:26	
n-Heptane	ug/m3	ND	0.83	10/20/09 15:26	
n-Hexane	ug/m3	ND	0.72	10/20/09 15:26	
Naphthalene	ug/m3	ND	2.7	10/20/09 15:26	
o-Xylene	ug/m3	ND	0.88	10/20/09 15:26	
Propylene	ug/m3	ND	0.35	10/20/09 15:26	
Styrene	ug/m3	ND	0.87	10/20/09 15:26	
Tetrachloroethene	ug/m3	ND	1.4	10/20/09 15:26	
Tetrahydrofuran	ug/m3	ND	0.60	10/20/09 15:26	
Toluene	ug/m3	ND	0.77	10/20/09 15:26	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	10/20/09 15:26	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	10/20/09 15:26	
Trichloroethene	ug/m3	ND	1.1	10/20/09 15:26	
Trichlorofluoromethane	ug/m3	ND	1.1	10/20/09 15:26	
Vinyl acetate	ug/m3	ND	0.71	10/20/09 15:26	
Vinyl chloride	ug/m3	ND	0.52	10/20/09 15:26	

LABORATORY CONTROL SAMPLE: 699452

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	57.2	50.4	88	55-127	
1,1,2,2-Tetrachloroethane	ug/m3	71.2	69.3	97	58-128	
1,1,2-Trichloroethane	ug/m3	56	50.5	90	58-126	
1,1,2-Trichlorotrifluoroethane	ug/m3	76.4	46.8	61	49-134	
1,1-Dichloroethane	ug/m3	41.2	30.3	74	52-129	
1,1-Dichloroethene	ug/m3	40.3	35.3	87	50-130	
1,2,4-Trichlorobenzene	ug/m3	74.7	55.0	74	30-150	
1,2,4-Trimethylbenzene	ug/m3	49.5	58.2	117	53-144	
1,2-Dibromoethane (EDB)	ug/m3	81.3	88.0	108	57-137	
1,2-Dichlorobenzene	ug/m3	62.4	72.7	117	65-140	
1,2-Dichloroethane	ug/m3	44.9	38.0	85	54-125	
1,2-Dichloropropane	ug/m3	50.8	48.5	95	60-125	
1,3,5-Trimethylbenzene	ug/m3	49.5	61.0	123	54-139	
1,3-Butadiene	ug/m3	22.7	20.6	91	54-125	
1,3-Dichlorobenzene	ug/m3	64.2	69.6	108	62-140	
1,4-Dichlorobenzene	ug/m3	63	61.9	98	61-139	
2-Butanone (MEK)	ug/m3	30.9	30.2	98	47-138	
2-Hexanone	ug/m3	42.1	39.7	94	40-143	
2-Propanol	ug/m3	23.8	18.1	76	45-149	
4-Ethyltoluene	ug/m3	50	54.4	109	57-139	
4-Methyl-2-pentanone (MIBK)	ug/m3	42.5	44.3	104	54-132	
Acetone	ug/m3	24.2	15.3	63	44-147	
Benzene	ug/m3	32.8	30.4	93	60-125	
Bromodichloromethane	ug/m3	68.1	62.1	91	53-130	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10114961

LABORATORY CONTROL SAMPLE: 699452

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/m3	107	108	101	55-125	
Bromomethane	ug/m3	39.9	34.8	87	53-132	
Carbon disulfide	ug/m3	32.6	25.5	78	57-150	
Carbon tetrachloride	ug/m3	64.6	43.1	67	53-125	
Chlorobenzene	ug/m3	46.4	48.1	104	50-136	
Chloroethane	ug/m3	26.6	22.7	85	55-130	
Chloroform	ug/m3	48.2	43.4	90	56-125	
Chloromethane	ug/m3	21	18.6	89	49-127	
cis-1,2-Dichloroethene	ug/m3	41.5	40.5	97	58-127	
cis-1,3-Dichloropropene	ug/m3	48.5	62.9	130	62-135	
Cyclohexane	ug/m3	35.4	40.8	115	56-135	
Dibromochloromethane	ug/m3	91	86.1	95	48-132	
Dichlorodifluoromethane	ug/m3	49.3	32.1	65	54-130	
Dichlorotetrafluoroethane	ug/m3	71.1	50.4	71	50-125	
Ethanol	ug/m3	19.2	7.1	37	30-150	
Ethyl acetate	ug/m3	37.4	35.0	94	70-141	
Ethylbenzene	ug/m3	48.6	58.1	120	57-135	
Hexachloro-1,3-butadiene	ug/m3	106	64.3	60	30-150	
m&p-Xylene	ug/m3	91.8	105	115	61-135	
Methyl-tert-butyl ether	ug/m3	36.7	29.6	81	56-130	
Methylene Chloride	ug/m3	34.6	29.8	86	49-127	
n-Heptane	ug/m3	42.9	41.9	98	57-133	
n-Hexane	ug/m3	39.1	35.3	90	55-135	
Naphthalene	ug/m3	50.6	46.6	92	30-150	
o-Xylene	ug/m3	45.5	52.2	115	60-134	
Propylene	ug/m3	18.6	17.5	94	63-147	
Styrene	ug/m3	43.3	46.8	108	58-142	
Tetrachloroethene	ug/m3	71.7	73.4	102	61-132	
Tetrahydrofuran	ug/m3	22.5	16.2	72	67-134	
Toluene	ug/m3	39.9	36.6	92	56-132	
trans-1,2-Dichloroethene	ug/m3	41.9	37.8	90	52-131	
trans-1,3-Dichloropropene	ug/m3	48.9	58.4	119	62-131	
Trichloroethene	ug/m3	55.2	63.9	116	68-150	
Trichlorofluoromethane	ug/m3	56	44.7	80	52-142	
Vinyl acetate	ug/m3	36.9	33.1	90	53-136	
Vinyl chloride	ug/m3	26.8	22.4	84	57-132	

SAMPLE DUPLICATE: 700051

Parameter	Units	10114949001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND		25	
1,1,2-Trichloroethane	ug/m3	ND	ND		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethene	ug/m3	ND	ND		25	
1,2,4-Trichlorobenzene	ug/m3	ND	ND		25	

REPORT OF LABORATORY ANALYSIS

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.: 10114961

SAMPLE DUPLICATE: 700051

Parameter	Units	10114949001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/m3	105	94.4	11	25	
1,2-Dibromoethane (EDB)	ug/m3	ND	ND		25	
1,2-Dichlorobenzene	ug/m3	ND	ND		25	
1,2-Dichloroethane	ug/m3	5.1	4.4	15	25	
1,2-Dichloropropane	ug/m3	ND	ND		25	
1,3,5-Trimethylbenzene	ug/m3	31.5	28.0	12	25	
1,3-Butadiene	ug/m3	ND	ND		25	
1,3-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dichlorobenzene	ug/m3	ND	ND		25	
2-Butanone (MEK)	ug/m3	24.6	22.3	10	25	
2-Hexanone	ug/m3	ND	ND		25	
2-Propanol	ug/m3	5.2	6.8	27	25	R1
4-Ethyltoluene	ug/m3	25.5	22.5	13	25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	ND		25	
Acetone	ug/m3	41.0	39.3	4	25	
Benzene	ug/m3	63.4	57.9	9	25	
Bromodichloromethane	ug/m3	ND	ND		25	
Bromoform	ug/m3	ND	ND		25	
Bromomethane	ug/m3	ND	ND		25	
Carbon disulfide	ug/m3	ND	ND		25	
Carbon tetrachloride	ug/m3	ND	ND		25	
Chlorobenzene	ug/m3	ND	ND		25	
Chloroethane	ug/m3	ND	ND		25	
Chloroform	ug/m3	ND	ND		25	
Chloromethane	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
cis-1,3-Dichloropropene	ug/m3	ND	ND		25	
Cyclohexane	ug/m3	114	101	12	25	
Dibromochloromethane	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	ND	ND		25	
Dichlorotetrafluoroethane	ug/m3	ND	ND		25	
Ethanol	ug/m3	107	111	3	25	E
Ethyl acetate	ug/m3	ND	ND		25	
Ethylbenzene	ug/m3	79.3	72.1	9	25	
Hexachloro-1,3-butadiene	ug/m3	ND	ND		25	
m&p-Xylene	ug/m3	240	218	10	25	
Methyl-tert-butyl ether	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	98.5	179	58	25	E,R1
n-Heptane	ug/m3	71.7	65.5	9	25	
n-Hexane	ug/m3	97.9	95.7	2	25	
Naphthalene	ug/m3	18.5	13.4	32	25	CH,R1
o-Xylene	ug/m3	92.5	84.2	9	25	
Propylene	ug/m3	ND	ND		25	
Styrene	ug/m3	8.1	7.1	12	25	
Tetrachloroethene	ug/m3	ND	ND		25	
Tetrahydrofuran	ug/m3	ND	ND		25	
Toluene	ug/m3	1210	450	92	25	E,R1
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	

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(612)607-1700

QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10114961

SAMPLE DUPLICATE: 700051

Parameter	Units	10114949001 Result	Dup Result	RPD	Max RPD	Qualifiers
trans-1,3-Dichloropropene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	ND	ND		25	
Trichlorofluoromethane	ug/m3	1.5	1.6	3	25	
Vinyl acetate	ug/m3	ND	ND		25	
Vinyl chloride	ug/m3	ND	ND		25	

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(612)607-1700

QUALIFIERS

Project: CRC City of Rochester
Pace Project No.: 10114961

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

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

SAMPLE QUALIFIERS

Sample: 10114961001

[1] The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

Sample: 10114961002

[1] The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

ANALYTE QUALIFIERS

A3	The sample was analyzed by serial dilution.
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
R1	RPD value was outside control limits.

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(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC City of Rochester
Pace Project No.: 10114961

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10114961001	**DPE-OUTLET-253**	TO-15	AIR/9282		
10114961002	**DPE-OUTLET-531**	TO-15	AIR/9282		

Data File: \\192.168.10.12\chem\10air7.i\102009.b\29314.D
Report Date: 21-Oct-2009 11:49

Pace Analytical Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10114961001
Operator : DB1
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 20-OCT-2009 18:55

Client SDG: 102009.b

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

Number TICs found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	3.713	76.9	J
2.	Unknown	4.083	30.0	J
3. 111-84-2	Nonane	12.058	3.48	NJ

Data File: \\192.168.10.12\chem\10air7.i\102009.b\29314.D
Report Date: 21-Oct-2009 11:49

Pace Analytical Services

TO15 Analysis (UNIX)

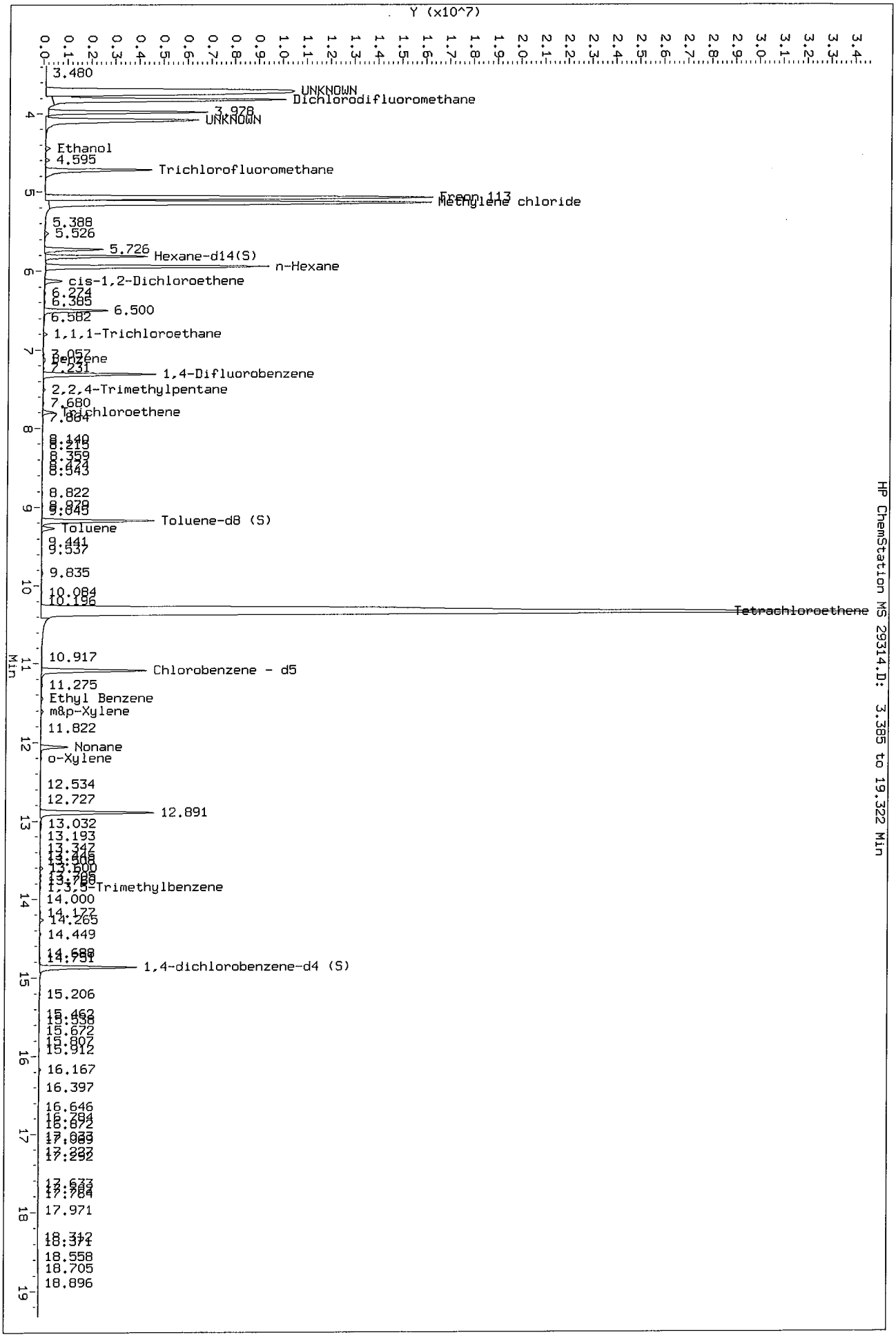
Data file : \\192.168.10.12\chem\10air7.i\102009.b\29314.D
Lab Smp Id: 10114961001
Inj Date : 20-OCT-2009 18:55
Operator : DB1 Inst ID: 10air7.i
Smp Info : Sample 6
Misc Info : 9282
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10air7.i\102009.b\TO15_292.m
Meth Date : 20-Oct-2009 11:53 dbrusky Quant Type: ISTD
Cal Date : 19-OCT-2009 17:59 Cal File: 29214.D
Als bottle: 14
Dil Factor: 1.48000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10VOA10

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.480	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 36 1,4-Difluorobenzene	7.313	9279728	10.000
* 53 Chlorobenzene - d5	11.091	9905700	10.000

	CONCENTRATIONS			QUANT			
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
3.713	48231023	51.9746063	76.9	0		0	36
Unknown				CAS #:			
4.083	18781873	20.2396792	30.0	0		0	36
Nonane				CAS #: 111-84-2			
12.058	2329298	2.35147250	3.48	90	NBS75K.l	65144	53



Data File: \\192.168.10.12\chem\10air7.i\102009.b\29314.D
Injection Date: 20-OCT-2009 18:55
Instrument: 10air7.i
Client Sample ID:

Data File: \\192.168.10.12\chem\10air7.i\102009.b\29315.D
Report Date: 21-Oct-2009 12:15

Pace Analytical Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10114961002
Operator : DB1
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 20-OCT-2009 19:26

Client SDG: 102009.b

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

Number TICs found: 10

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	3.726	82.8	J
2.	75-07-0	Acetaldehyde	4.109	9.30	NJ
3.		Unknown	4.175	3.60	J
4.	354-23-4	Ethane, 1,2-dichloro-1,1,2-	4.628	10.5	NJ
5.		Unknown	7.415	2.46	J
6.	141-79-7	3-Penten-2-one, 4-methyl-	9.828	49.1	NJ
7.	127-18-4	Tetrachloroethylene	10.527	79.4	NJ
8.		Unknown	12.108	3.24	J
9.	124-18-5	Decane	14.285	2.79	NJ
10.	7647-01-0	Hydrochloric Acid	17.771	4.38	NJ

Data File: \\192.168.10.12\chem\10air7.i\102009.b\29315.D
Report Date: 21-Oct-2009 12:15

Pace Analytical Services

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10air7.i\102009.b\29315.D
Lab Smp Id: 10114961002
Inj Date : 20-OCT-2009 19:26
Operator : DB1 Inst ID: 10air7.i
Smp Info : Sample 7
Misc Info : 9282
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10air7.i\102009.b\TO15_292.m
Meth Date : 20-Oct-2009 11:53 dbrusky Quant Type: ISTD
Cal Date : 19-OCT-2009 17:59 Cal File: 29214.D
Als bottle: 15
Dil Factor: 1.54000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10VOA10

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.540	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

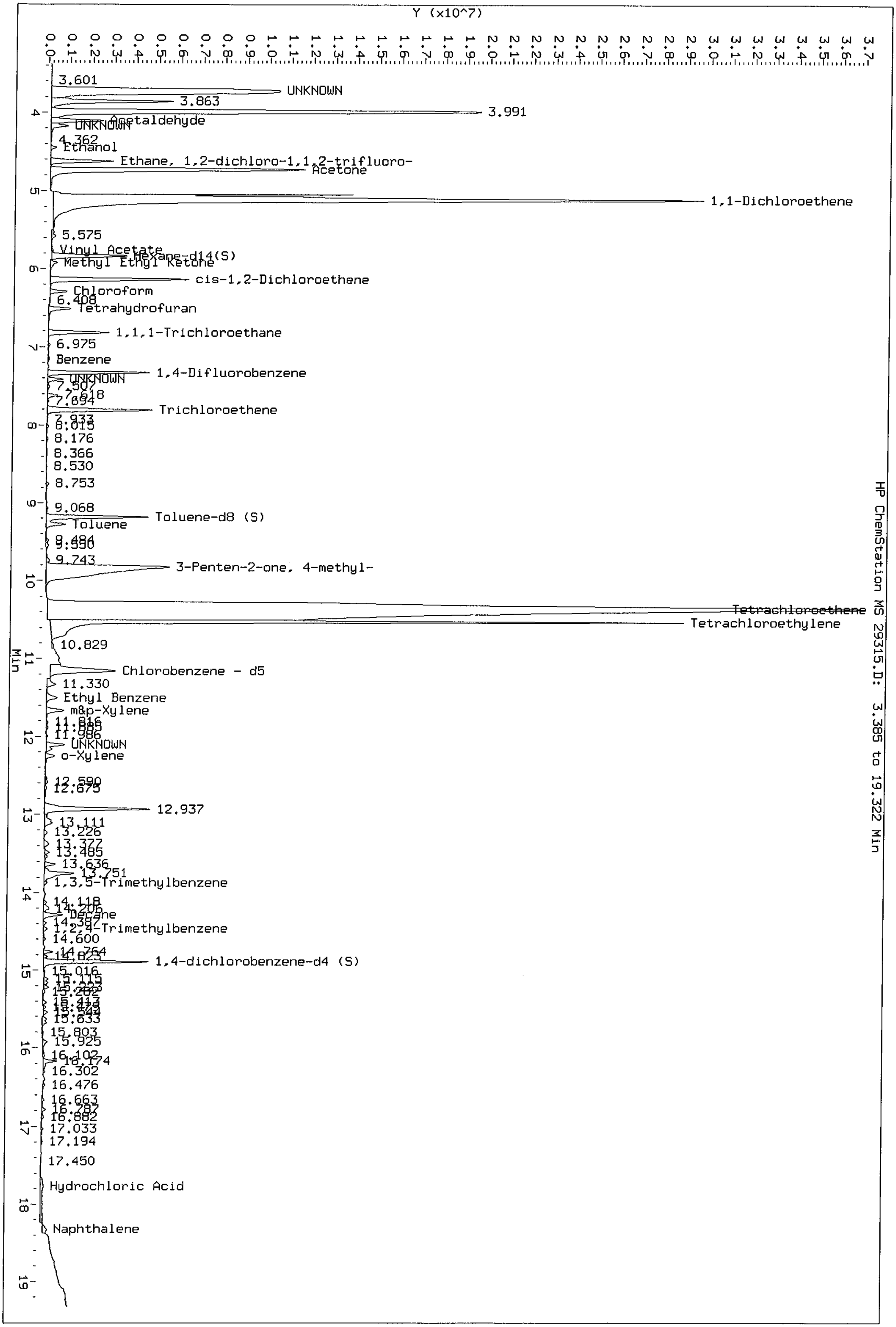
ISTD	RT	AREA	AMOUNT
* 36 1,4-Difluorobenzene	7.333	9102798	10.000
* 53 Chlorobenzene - d5	11.163	11668873	10.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
3.726	48917312	53.7387588	82.8	0		0	36
Acetaldehyde				CAS #: 75-07-0			
4.109	5495261	6.03689146	9.30	78	NBS75K.l	36	36
Unknown				CAS #:			
4.175	2127044	2.33669218	3.60	0		0	36
Ethane, 1,2-dichloro-1,1,2-trifluoro-				CAS #: 354-23-4			
4.628	6183669	6.79315095	10.5	93	NBS75K.l	10049	36
Unknown				CAS #:			
7.415	1457442	1.60109265	2.46	0		0	36

Data File: \\192.168.10.12\chem\10air7.i\102009.b\29315.D
Report Date: 21-Oct-2009 12:15

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
3-Penten-2-one, 4-methyl-				CAS #: 141-79-7			
9.828	37199842	31.8795496	49.1	94	NBS75K.l	63217	53
Tetrachloroethylene				CAS #: 127-18-4			
10.527	60172897	51.5670166	79.4	98	NBS75K.l	13222	53
Unknown				CAS #:			
12.108	2454828	2.10374016	3.24	0		0	53
Decane				CAS #: 124-18-5			
14.285	2111061	1.80913845	2.79	90	NBS75K.l	66205	53
Hydrochloric Acid				CAS #: 7647-01-0			
17.771	3317077	2.84267107	4.38	78	NBS75K.l	21	53

Data File: \\192.168.10.12\chem\10air7.i\102009.b\29315.D
Injection Date: 20-OCT-2009 19:26
Instrument: 10air7.i
Client Sample ID:



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CHAIN-OF-CUSTODY / Analytical Request Document

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

10114961

Page: of

Section A — **Required** Client Information:

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

Section B — **Required** Project Information:

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

Section C — Invoice Information:

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

REGULATORY AGENCY

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

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

Section D **Required** Client Information

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

Valid Matrix Codes

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

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Ana: TO-15	Pace Project Number / Lab I.D.
1	DPE-OUTLET-253	A	G	10/15/09	14:45														X	10114961001
2	DPE-OUTLET-531	A	C	10/16/09	06:15	10/16/09	12:15												X	002
3																				
4																				
5																				
6																				
7																				
8																				
5																				
6																				
7																				
8																				

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
				10/19	1242	AMB

SAMPLER NAME AND SIGNATURE				
PRINT Name of SAMPLER:	Eric Gabrielson			
SIGNATURE of SAMPLER:		DATE Signed (MM / DD / YY):	10/19/09	

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

F:\PROJECTS\Crc-City of Rochester\Analytical Reports\coc air 10-16-09.XLS

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

Pace Analytical

AIR Sample Condition Upon Receipt

Client Name: LANDMARK Project # 10114961

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

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

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

Optional
Proj. Due Date:
Proj. Name:

Tracking #: _____

Date and Initials of person examining contents: 10-19-09 JL

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

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-OUTDOOR-253	0253		PA77				
" " -571	0531		PA83				
UNUSED	1204						

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 10/19/09

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

A106 Rev.01 (22May2009)

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

August 13, 2008

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

RE: Project: City of Rochester CRC
Pace Project No.: 1078524

Dear Mr. Skramstad:
Enclosed are the analytical results for sample(s) received by the laboratory on August 08, 2008. 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

Florida (Nelap) Certification #: E87605
Illinois Certification #: 200011
Iowa Certification #: 368
Minnesota Certification #: 027-053-137
Wisconsin Certification #: 999407970

Enclosures

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Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: City of Rochester CRC
Pace Project No.: 1078524

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1078524001	**DPE-1**	Water	08/07/08 17:00	08/08/08 14:14

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

SAMPLE ANALYTE COUNT

Project: City of Rochester CRC
Pace Project No.: 1078524

Lab ID	Sample ID	Method	Analysts	Analytes Reported
1078524001	**DPE-1**	EPA 8260	CNC	73

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Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: City of Rochester CRC
Pace Project No.: 1078524

Sample: DPE-1 **Lab ID: 1078524001** Collected: 08/07/08 17:00 Received: 08/08/08 14:14 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV MDH VOC	Analytical Method: EPA 8260								
Acetone	ND	ug/L	2500	1250	250		08/13/08 08:02	67-64-1	
Allyl chloride	ND	ug/L	1000	500	250		08/13/08 08:02	107-05-1	
Benzene	ND	ug/L	250	125	250		08/13/08 08:02	71-43-2	
Bromobenzene	ND	ug/L	250	125	250		08/13/08 08:02	108-86-1	
Bromochloromethane	ND	ug/L	250	125	250		08/13/08 08:02	74-97-5	
Bromodichloromethane	ND	ug/L	250	125	250		08/13/08 08:02	75-27-4	
Bromoform	ND	ug/L	2000	1000	250		08/13/08 08:02	75-25-2	
Bromomethane	ND	ug/L	1000	500	250		08/13/08 08:02	74-83-9	
2-Butanone (MEK)	ND	ug/L	1000	500	250		08/13/08 08:02	78-93-3	
n-Butylbenzene	ND	ug/L	250	125	250		08/13/08 08:02	104-51-8	
sec-Butylbenzene	ND	ug/L	250	125	250		08/13/08 08:02	135-98-8	
tert-Butylbenzene	ND	ug/L	250	125	250		08/13/08 08:02	98-06-6	
Carbon tetrachloride	ND	ug/L	250	125	250		08/13/08 08:02	56-23-5	
Chlorobenzene	ND	ug/L	250	125	250		08/13/08 08:02	108-90-7	
Chloroethane	ND	ug/L	250	125	250		08/13/08 08:02	75-00-3	
Chloroform	ND	ug/L	250	125	250		08/13/08 08:02	67-66-3	
Chloromethane	ND	ug/L	250	125	250		08/13/08 08:02	74-87-3	
2-Chlorotoluene	ND	ug/L	250	125	250		08/13/08 08:02	95-49-8	
4-Chlorotoluene	ND	ug/L	250	125	250		08/13/08 08:02	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1000	500	250		08/13/08 08:02	96-12-8	
Dibromochloromethane	ND	ug/L	250	125	250		08/13/08 08:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	250	125	250		08/13/08 08:02	106-93-4	
Dibromomethane	ND	ug/L	250	125	250		08/13/08 08:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	250	125	250		08/13/08 08:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	250	125	250		08/13/08 08:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	250	125	250		08/13/08 08:02	106-46-7	
Dichlorodifluoromethane	ND	ug/L	250	125	250		08/13/08 08:02	75-71-8	
1,1-Dichloroethane	ND	ug/L	250	125	250		08/13/08 08:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	250	125	250		08/13/08 08:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	250	125	250		08/13/08 08:02	75-35-4	
cis-1,2-Dichloroethene	**3250**	ug/L	250	125	250		08/13/08 08:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	250	125	250		08/13/08 08:02	156-60-5	
Dichlorofluoromethane	ND	ug/L	250	125	250		08/13/08 08:02	75-43-4	
1,2-Dichloropropane	ND	ug/L	250	125	250		08/13/08 08:02	78-87-5	
1,3-Dichloropropane	ND	ug/L	250	125	250		08/13/08 08:02	142-28-9	
2,2-Dichloropropane	ND	ug/L	250	125	250		08/13/08 08:02	594-20-7	
1,1-Dichloropropene	ND	ug/L	250	125	250		08/13/08 08:02	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1000	500	250		08/13/08 08:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1000	500	250		08/13/08 08:02	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	1000	500	250		08/13/08 08:02	60-29-7	
Ethylbenzene	ND	ug/L	250	125	250		08/13/08 08:02	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1000	500	250		08/13/08 08:02	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	250	125	250		08/13/08 08:02	98-82-8	
p-Isopropyltoluene	ND	ug/L	250	125	250		08/13/08 08:02	99-87-6	
Methylene Chloride	ND	ug/L	1000	500	250		08/13/08 08:02	75-09-2	J
4-Methyl-2-pentanone (MIBK)	ND	ug/L	1000	500	250		08/13/08 08:02	108-10-1	

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ANALYTICAL RESULTS

Project: City of Rochester CRC
Pace Project No.: 1078524

Sample: DPE-1 **Lab ID: 1078524001** Collected: 08/07/08 17:00 Received: 08/08/08 14:14 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV MDH VOC	Analytical Method: EPA 8260								
Methyl-tert-butyl ether	ND	ug/L	250	125	250		08/13/08 08:02	1634-04-4	
Naphthalene	ND	ug/L	1000	500	250		08/13/08 08:02	91-20-3	
n-Propylbenzene	ND	ug/L	250	125	250		08/13/08 08:02	103-65-1	
Styrene	ND	ug/L	250	125	250		08/13/08 08:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	250	125	250		08/13/08 08:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	250	125	250		08/13/08 08:02	79-34-5	
Tetrachloroethene	**157000**	ug/L	1000	500	1000		08/13/08 09:53	127-18-4	
Tetrahydrofuran	ND	ug/L	2500	1250	250		08/13/08 08:02	109-99-9	
Toluene	ND	ug/L	250	125	250		08/13/08 08:02	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	250	125	250		08/13/08 08:02	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	250	125	250		08/13/08 08:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	250	125	250		08/13/08 08:02	71-55-6	J
1,1,2-Trichloroethane	ND	ug/L	250	125	250		08/13/08 08:02	79-00-5	
Trichloroethene	**563**	ug/L	250	125	250		08/13/08 08:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	250	125	250		08/13/08 08:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	250	125	250		08/13/08 08:02	96-18-4	
1,1,2-Trichlorotrifluoroethane	**11300**	ug/L	250	125	250		08/13/08 08:02	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	250	125	250		08/13/08 08:02	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	250	125	250		08/13/08 08:02	108-67-8	
Vinyl chloride	ND	ug/L	100	50.0	250		08/13/08 08:02	75-01-4	
Xylene (Total)	ND	ug/L	750	375	250		08/13/08 08:02	1330-20-7	
m&p-Xylene	ND	ug/L	500	250	250		08/13/08 08:02	1330-20-7	
o-Xylene	ND	ug/L	250	125	250		08/13/08 08:02	95-47-6	
Dibromofluoromethane (S)	98	%	75-125		250		08/13/08 08:02	1868-53-7	
Toluene-d8 (S)	95	%	75-125		250		08/13/08 08:02	2037-26-5	
4-Bromofluorobenzene (S)	97	%	75-125		250		08/13/08 08:02	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	75-125		250		08/13/08 08:02	17060-07-0	

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QUALITY CONTROL DATA

Project: City of Rochester CRC
Pace Project No.: 1078524

QC Batch: MSV/10630
QC Batch Method: EPA 8260
Associated Lab Samples: 1078524001

Analysis Method: EPA 8260
Analysis Description: 8260 MSV 465 List

METHOD BLANK: 512492
Associated Lab Samples: 1078524001

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

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QUALITY CONTROL DATA

Project: City of Rochester CRC
Pace Project No.: 1078524

METHOD BLANK: 512492

Associated Lab Samples: 1078524001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	
Dichlorofluoromethane	ug/L	ND	1.0	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	
Ethylbenzene	ug/L	ND	1.0	
Hexachloro-1,3-butadiene	ug/L	ND	4.0	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	
m&p-Xylene	ug/L	ND	2.0	
Methyl-tert-butyl ether	ug/L	ND	1.0	
Methylene Chloride	ug/L	ND	4.0	
n-Butylbenzene	ug/L	ND	1.0	
n-Propylbenzene	ug/L	ND	1.0	
Naphthalene	ug/L	ND	4.0	
o-Xylene	ug/L	ND	1.0	
p-Isopropyltoluene	ug/L	ND	1.0	
sec-Butylbenzene	ug/L	ND	1.0	
Styrene	ug/L	ND	1.0	
tert-Butylbenzene	ug/L	ND	1.0	
Tetrachloroethene	ug/L	ND	1.0	
Tetrahydrofuran	ug/L	ND	10.0	
Toluene	ug/L	ND	1.0	
trans-1,2-Dichloroethene	ug/L	ND	1.0	
trans-1,3-Dichloropropene	ug/L	ND	4.0	
Trichloroethene	ug/L	ND	1.0	
Trichlorofluoromethane	ug/L	ND	1.0	
Vinyl chloride	ug/L	ND	0.40	
Xylene (Total)	ug/L	ND	3.0	
1,2-Dichloroethane-d4 (S)	%	96	75-125	
4-Bromofluorobenzene (S)	%	96	75-125	
Dibromofluoromethane (S)	%	98	75-125	
Toluene-d8 (S)	%	95	75-125	

LABORATORY CONTROL SAMPLE: 512493

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.2	101	75-135	
1,1,1-Trichloroethane	ug/L	20	20.6	103	75-132	
1,1,2,2-Tetrachloroethane	ug/L	20	19.7	98	75-125	
1,1,2-Trichloroethane	ug/L	20	21.7	108	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	22.7	114	73-141	
1,1-Dichloroethane	ug/L	20	21.1	106	75-125	
1,1-Dichloroethene	ug/L	20	20.8	104	75-127	
1,1-Dichloropropene	ug/L	20	21.7	108	75-126	
1,2,3-Trichlorobenzene	ug/L	20	21.9	110	75-125	
1,2,3-Trichloropropane	ug/L	20	21.9	110	75-125	
1,2,4-Trichlorobenzene	ug/L	20	21.3	107	75-125	

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QUALITY CONTROL DATA

Project: City of Rochester CRC
Pace Project No.: 1078524

LABORATORY CONTROL SAMPLE: 512493

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	22.4	112	75-125	
1,2-Dibromo-3-chloropropane	ug/L	20	21.7	108	67-125	
1,2-Dibromoethane (EDB)	ug/L	20	21.6	108	75-125	
1,2-Dichlorobenzene	ug/L	20	21.5	107	75-125	
1,2-Dichloroethane	ug/L	20	21.3	106	75-125	
1,2-Dichloropropane	ug/L	20	21.6	108	75-125	
1,3,5-Trimethylbenzene	ug/L	20	22.2	111	75-125	
1,3-Dichlorobenzene	ug/L	20	21.3	107	75-125	
1,3-Dichloropropane	ug/L	20	21.8	109	75-125	
1,4-Dichlorobenzene	ug/L	20	21.6	108	75-125	
2,2-Dichloropropane	ug/L	20	18.8	94	50-150	
2-Butanone (MEK)	ug/L	20	21.3	107	68-127	
2-Chlorotoluene	ug/L	20	21.9	109	75-125	
4-Chlorotoluene	ug/L	20	22.1	110	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	20	21.7	108	68-133	
Acetone	ug/L	50	56.4	113	65-139	
Allyl chloride	ug/L	20	22.3	111	55-145	
Benzene	ug/L	20	21.8	109	75-125	
Bromobenzene	ug/L	20	22.2	111	75-125	
Bromochloromethane	ug/L	20	20.6	103	75-127	
Bromodichloromethane	ug/L	20	20.0	100	75-125	
Bromoform	ug/L	40	40.7	102	67-125	
Bromomethane	ug/L	20	18.6	93	65-150	
Carbon tetrachloride	ug/L	20	20.1	100	67-133	
Chlorobenzene	ug/L	20	21.4	107	75-125	
Chloroethane	ug/L	20	20.0	100	75-129	
Chloroform	ug/L	20	20.8	104	75-125	
Chloromethane	ug/L	20	20.1	100	67-135	
cis-1,2-Dichloroethene	ug/L	20	21.6	108	75-125	
cis-1,3-Dichloropropene	ug/L	20	19.4	97	75-125	
Dibromochloromethane	ug/L	20	20.7	103	73-125	
Dibromomethane	ug/L	20	20.9	104	75-125	
Dichlorodifluoromethane	ug/L	20	20.0	100	55-150	
Dichlorofluoromethane	ug/L	20	21.2	106	75-129	
Diethyl ether (Ethyl ether)	ug/L	20	21.9	109	75-125	
Ethylbenzene	ug/L	20	21.6	108	75-125	
Hexachloro-1,3-butadiene	ug/L	20	21.1	105	75-132	
Isopropylbenzene (Cumene)	ug/L	20	21.7	108	75-125	
m&p-Xylene	ug/L	40	42.2	105	75-125	
Methyl-tert-butyl ether	ug/L	20	22.2	111	65-140	
Methylene Chloride	ug/L	20	22.4	112	63-125	
n-Butylbenzene	ug/L	20	21.7	108	75-125	
n-Propylbenzene	ug/L	20	22.0	110	75-125	
Naphthalene	ug/L	20	23.8	119	72-128	
o-Xylene	ug/L	20	22.1	110	75-125	
p-Isopropyltoluene	ug/L	20	22.1	111	75-125	
sec-Butylbenzene	ug/L	20	22.0	110	75-125	
Styrene	ug/L	20	22.2	111	75-125	

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QUALITY CONTROL DATA

Project: City of Rochester CRC
Pace Project No.: 1078524

LABORATORY CONTROL SAMPLE: 512493

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	20	21.7	109	75-125	
Tetrachloroethene	ug/L	20	20.7	103	75-125	
Tetrahydrofuran	ug/L	200	243	121	60-147	
Toluene	ug/L	20	21.2	106	75-125	
trans-1,2-Dichloroethene	ug/L	20	20.4	102	75-125	
trans-1,3-Dichloropropene	ug/L	20	21.1	105	69-125	
Trichloroethene	ug/L	20	21.6	108	75-125	
Trichlorofluoromethane	ug/L	20	20.9	105	75-135	
Vinyl chloride	ug/L	20	20.2	101	71-133	
Xylene (Total)	ug/L	60	64.2	107	75-125	
1,2-Dichloroethane-d4 (S)	%			106	75-125	
4-Bromofluorobenzene (S)	%			111	75-125	
Dibromofluoromethane (S)	%			93	75-125	
Toluene-d8 (S)	%			103	75-125	

MATRIX SPIKE SAMPLE: 512610

Parameter	Units	1078615004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	19.2	96	75-135	
1,1,1-Trichloroethane	ug/L	ND	20	21.3	107	75-140	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	18.3	91	75-130	
1,1,2-Trichloroethane	ug/L	ND	20	19.6	98	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	28.2	141	69-150	
1,1-Dichloroethane	ug/L	ND	20	20.8	104	70-140	
1,1-Dichloroethene	ug/L	ND	20	21.8	109	75-141	
1,1-Dichloropropene	ug/L	ND	20	21.3	106	75-144	
1,2,3-Trichlorobenzene	ug/L	ND	20	18.5	92	68-125	
1,2,3-Trichloropropane	ug/L	ND	20	17.9	89	74-126	
1,2,4-Trichlorobenzene	ug/L	ND	20	18.7	93	70-125	
1,2,4-Trimethylbenzene	ug/L	ND	20	18.1	90	61-136	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	16.9	84	67-125	
1,2-Dibromoethane (EDB)	ug/L	ND	20	18.7	93	75-125	
1,2-Dichlorobenzene	ug/L	ND	20	18.5	92	75-125	
1,2-Dichloroethane	ug/L	ND	20	19.7	98	75-130	
1,2-Dichloropropane	ug/L	ND	20	20.0	100	75-126	
1,3,5-Trimethylbenzene	ug/L	ND	20	18.4	92	66-135	
1,3-Dichlorobenzene	ug/L	ND	20	18.9	94	75-125	
1,3-Dichloropropane	ug/L	ND	20	19.0	95	75-125	
1,4-Dichlorobenzene	ug/L	ND	20	19.2	96	75-125	
2,2-Dichloropropane	ug/L	ND	20	19.5	98	50-150	
2-Butanone (MEK)	ug/L	ND	20	18.1	91	68-127	
2-Chlorotoluene	ug/L	ND	20	20.1	101	66-148	
4-Chlorotoluene	ug/L	ND	20	19.0	95	68-136	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	19.0	95	68-133	
Acetone	ug/L	ND	50	46.1	92	50-150	
Allyl chloride	ug/L	ND	20	17.1	85	50-147	
Benzene	ug/L	ND	20	20.6	103	75-126	

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QUALITY CONTROL DATA

Project: City of Rochester CRC
Pace Project No.: 1078524

MATRIX SPIKE SAMPLE: 512610

Parameter	Units	1078615004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromobenzene	ug/L	ND	20	19.0	95	75-125	
Bromochloromethane	ug/L	ND	20	18.0	90	75-127	
Bromodichloromethane	ug/L	ND	20	18.1	90	72-130	
Bromoform	ug/L	ND	40	30.4	76	56-125	
Bromomethane	ug/L	ND	20	18.3	92	50-150	
Carbon tetrachloride	ug/L	ND	20	21.0	105	68-144	
Chlorobenzene	ug/L	ND	20	19.9	99	75-125	
Chloroethane	ug/L	ND	20	20.6	103	75-142	
Chloroform	ug/L	1.5	20	21.3	99	75-134	
Chloromethane	ug/L	3.4	20	29.4	130	61-148	
cis-1,2-Dichloroethene	ug/L	ND	20	20.5	103	65-148	
cis-1,3-Dichloropropene	ug/L	ND	20	17.8	89	59-132	
Dibromochloromethane	ug/L	ND	20	17.1	86	63-125	
Dibromomethane	ug/L	ND	20	18.6	93	75-125	
Dichlorodifluoromethane	ug/L	ND	20	25.7	128	50-150	
Dichlorofluoromethane	ug/L	ND	20	21.2	106	75-138	
Diethyl ether (Ethyl ether)	ug/L	ND	20	19.4	97	74-128	
Ethylbenzene	ug/L	ND	20	20.8	104	75-126	
Hexachloro-1,3-butadiene	ug/L	ND	20	21.0	105	63-146	
Isopropylbenzene (Cumene)	ug/L	ND	20	21.0	105	75-131	
m&p-Xylene	ug/L	ND	40	39.2	98	67-137	
Methyl-tert-butyl ether	ug/L	ND	20	19.9	100	59-140	
Methylene Chloride	ug/L	ND	20	19.5	98	62-133	
n-Butylbenzene	ug/L	ND	20	20.8	104	62-141	
n-Propylbenzene	ug/L	ND	20	20.9	105	73-139	
Naphthalene	ug/L	ND	20	19.1	96	69-129	
o-Xylene	ug/L	ND	20	20.7	103	75-126	
p-Isopropyltoluene	ug/L	ND	20	20.7	103	70-137	
sec-Butylbenzene	ug/L	ND	20	21.3	107	73-140	
Styrene	ug/L	ND	20	17.1	85	50-144	
tert-Butylbenzene	ug/L	ND	20	20.3	101	73-136	
Tetrachloroethene	ug/L	ND	20	20.1	101	75-133	
Tetrahydrofuran	ug/L	ND	200	195	98	67-135	
Toluene	ug/L	ND	20	20.3	102	75-125	
trans-1,2-Dichloroethene	ug/L	ND	20	20.5	102	75-138	
trans-1,3-Dichloropropene	ug/L	ND	20	18.0	90	59-125	
Trichloroethene	ug/L	ND	20	20.2	101	75-130	
Trichlorofluoromethane	ug/L	ND	20	24.2	121	71-150	
Vinyl chloride	ug/L	ND	20	22.2	111	64-150	
Xylene (Total)	ug/L	ND	60	59.8	100	75-125	
1,2-Dichloroethane-d4 (S)	%				98	75-125	
4-Bromofluorobenzene (S)	%				91	75-125	
Dibromofluoromethane (S)	%				103	75-125	
Toluene-d8 (S)	%				98	75-125	

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QUALITY CONTROL DATA

Project: City of Rochester CRC
Pace Project No.: 1078524

SAMPLE DUPLICATE: 512611

Parameter	Units	1078615005 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND	0	30	
1,1,1-Trichloroethane	ug/L	ND	ND	0	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND	0	30	
1,1,2-Trichloroethane	ug/L	ND	ND	0	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	ND	0	30	
1,1-Dichloroethane	ug/L	ND	ND	0	30	
1,1-Dichloroethene	ug/L	ND	ND	0	30	
1,1-Dichloropropene	ug/L	ND	ND	0	30	
1,2,3-Trichlorobenzene	ug/L	ND	ND	0	30	
1,2,3-Trichloropropane	ug/L	ND	ND	0	30	
1,2,4-Trichlorobenzene	ug/L	ND	ND	0	30	
1,2,4-Trimethylbenzene	ug/L	ND	ND	0	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND	0	30	
1,2-Dibromoethane (EDB)	ug/L	ND	ND	0	30	
1,2-Dichlorobenzene	ug/L	ND	ND	0	30	
1,2-Dichloroethane	ug/L	ND	ND	0	30	
1,2-Dichloropropane	ug/L	ND	ND	0	30	
1,3,5-Trimethylbenzene	ug/L	ND	ND	0	30	
1,3-Dichlorobenzene	ug/L	ND	ND	0	30	
1,3-Dichloropropane	ug/L	ND	ND	0	30	
1,4-Dichlorobenzene	ug/L	ND	ND	0	30	
2,2-Dichloropropane	ug/L	ND	ND	0	30	
2-Butanone (MEK)	ug/L	ND	ND	0	30	
2-Chlorotoluene	ug/L	ND	ND	0	30	
4-Chlorotoluene	ug/L	ND	ND	0	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND	0	30	
Acetone	ug/L	ND	ND	0	30	
Allyl chloride	ug/L	ND	ND	0	30	
Benzene	ug/L	ND	ND	0	30	
Bromobenzene	ug/L	ND	ND	0	30	
Bromochloromethane	ug/L	ND	ND	0	30	
Bromodichloromethane	ug/L	ND	ND	0	30	
Bromoform	ug/L	ND	ND	0	30	
Bromomethane	ug/L	ND	ND	0	30	
Carbon tetrachloride	ug/L	ND	ND	0	30	
Chlorobenzene	ug/L	ND	ND	0	30	
Chloroethane	ug/L	ND	ND	0	30	
Chloroform	ug/L	ND	ND	0	30	
Chloromethane	ug/L	6.1	6.1	.8	30	
cis-1,2-Dichloroethene	ug/L	ND	ND	0	30	
cis-1,3-Dichloropropene	ug/L	ND	ND	0	30	
Dibromochloromethane	ug/L	ND	ND	0	30	
Dibromomethane	ug/L	ND	ND	0	30	
Dichlorodifluoromethane	ug/L	ND	ND	0	30	
Dichlorofluoromethane	ug/L	ND	ND	0	30	
Diethyl ether (Ethyl ether)	ug/L	ND	ND	0	30	
Ethylbenzene	ug/L	ND	ND	0	30	
Hexachloro-1,3-butadiene	ug/L	ND	ND	0	30	

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QUALITY CONTROL DATA

Project: City of Rochester CRC
Pace Project No.: 1078524

SAMPLE DUPLICATE: 512611

Parameter	Units	1078615005 Result	Dup Result	RPD	Max RPD	Qualifiers
Isopropylbenzene (Cumene)	ug/L	ND	ND	0	30	
m&p-Xylene	ug/L	ND	ND	0	30	
Methyl-tert-butyl ether	ug/L	ND	ND	0	30	
Methylene Chloride	ug/L	ND	ND	0	30	
n-Butylbenzene	ug/L	ND	ND	0	30	
n-Propylbenzene	ug/L	ND	ND	0	30	
Naphthalene	ug/L	ND	ND	0	30	
o-Xylene	ug/L	ND	ND	0	30	
p-Isopropyltoluene	ug/L	ND	ND	0	30	
sec-Butylbenzene	ug/L	ND	ND	0	30	
Styrene	ug/L	ND	ND	0	30	
tert-Butylbenzene	ug/L	ND	ND	0	30	
Tetrachloroethene	ug/L	ND	ND	0	30	
Tetrahydrofuran	ug/L	ND	ND	0	30	
Toluene	ug/L	ND	ND	0	30	
trans-1,2-Dichloroethene	ug/L	ND	ND	0	30	
trans-1,3-Dichloropropene	ug/L	ND	ND	0	30	
Trichloroethene	ug/L	ND	ND	0	30	
Trichlorofluoromethane	ug/L	ND	ND	0	30	
Vinyl chloride	ug/L	ND	ND	0	30	
Xylene (Total)	ug/L	ND	ND	0	30	
1,2-Dichloroethane-d4 (S)	%	94	99	5		
4-Bromofluorobenzene (S)	%	95	100	5		
Dibromofluoromethane (S)	%	97	95	3		
Toluene-d8 (S)	%	94	94	.7		

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QUALIFIERS

Project: City of Rochester CRC
Pace Project No.: 1078524

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

ANALYTE QUALIFIERS

J Analyte detected below reporting limit, therefore result is an estimate.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: City of Rochester CRC
Pace Project No.: 1078524

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
1078524001	**DPE-1**	EPA 8260	MSV/10630		

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

October 23, 2009

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

RE: Project: CRC City of Rochester
Pace Project No.: 10114959

Dear Mr. Skramstad:
Enclosed are the analytical results for sample(s) received by the laboratory on October 19, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Carolynne Trout

Carolynne Trout

carolynne.trout@pacelabs.com
Project Manager

Enclosures

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

CERTIFICATIONS

Project: CRC City of Rochester
Pace Project No.: 10114959

Minnesota Certification IDs

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

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Minneapolis, MN 55414
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SAMPLE SUMMARY

Project: CRC City of Rochester
Pace Project No.: 10114959

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10114959001	**AS-Influent**	Water	10/15/09 14:50	10/19/09 12:42
10114959002	**AS-Effluent**	Water	10/15/09 14:50	10/19/09 12:42

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SAMPLE ANALYTE COUNT

Project: CRC City of Rochester
Pace Project No.: 10114959

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10114959001	**AS-Influent**	EPA 624	DRE	82
10114959002	**AS-Effluent**	EPA 624	DRE	82

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10114959

Sample: AS-Influent **Lab ID: 10114959001** Collected: 10/15/09 14:50 Received: 10/19/09 12:42 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		10/19/09 21:42	67-64-1	
Acrolein	ND	ug/L	40.0	1		10/19/09 21:42	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1		10/19/09 21:42	107-13-1	
Allyl chloride	ND	ug/L	4.0	1		10/19/09 21:42	107-05-1	
Benzene	ND	ug/L	1.0	1		10/19/09 21:42	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/19/09 21:42	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/19/09 21:42	74-97-5	
Bromodichloromethane	ND	ug/L	4.0	1		10/19/09 21:42	75-27-4	
Bromoform	ND	ug/L	8.0	1		10/19/09 21:42	75-25-2	
Bromomethane	ND	ug/L	4.0	1		10/19/09 21:42	74-83-9	
2-Butanone (MEK)	**5.4**	ug/L	4.0	1		10/19/09 21:42	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		10/19/09 21:42	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		10/19/09 21:42	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/19/09 21:42	98-06-6	
Carbon disulfide	ND	ug/L	1.0	1		10/19/09 21:42	75-15-0	
Carbon tetrachloride	ND	ug/L	4.0	1		10/19/09 21:42	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/19/09 21:42	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/19/09 21:42	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		10/19/09 21:42	110-75-8	
Chloroform	ND	ug/L	1.0	1		10/19/09 21:42	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/19/09 21:42	74-87-3	
Chloroprene	ND	ug/L	1.0	1		10/19/09 21:42	126-99-8	
2-Chlorotoluene	ND	ug/L	1.0	1		10/19/09 21:42	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/19/09 21:42	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		10/19/09 21:42	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/19/09 21:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/19/09 21:42	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		10/19/09 21:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/19/09 21:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/19/09 21:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/19/09 21:42	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/19/09 21:42	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/19/09 21:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/19/09 21:42	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/19/09 21:42	75-35-4	
cis-1,2-Dichloroethene	**1.5**	ug/L	1.0	1		10/19/09 21:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/19/09 21:42	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		10/19/09 21:42	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/19/09 21:42	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/19/09 21:42	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		10/19/09 21:42	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/19/09 21:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		10/19/09 21:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		10/19/09 21:42	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		10/19/09 21:42	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		10/19/09 21:42	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		10/19/09 21:42	87-68-3	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10114959

Sample: AS-Influent **Lab ID: 10114959001** Collected: 10/15/09 14:50 Received: 10/19/09 12:42 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		10/19/09 21:42	591-78-6	
Iodomethane	ND	ug/L	4.0	1		10/19/09 21:42	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/19/09 21:42	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		10/19/09 21:42	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		10/19/09 21:42	75-09-2	
2-Methylnaphthalene	ND	ug/L	5.0	1		10/19/09 21:42	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		10/19/09 21:42	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/19/09 21:42	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		10/19/09 21:42	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		10/19/09 21:42	103-65-1	
Styrene	ND	ug/L	1.0	1		10/19/09 21:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/19/09 21:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/19/09 21:42	79-34-5	
Tetrachloroethene	**214**	ug/L	1.0	1		10/19/09 21:42	127-18-4	
Tetrahydrofuran	**15.7**	ug/L	10.0	1		10/19/09 21:42	109-99-9	
Toluene	ND	ug/L	1.0	1		10/19/09 21:42	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		10/19/09 21:42	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/19/09 21:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/19/09 21:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	4.0	1		10/19/09 21:42	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/19/09 21:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	4.0	1		10/19/09 21:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/19/09 21:42	96-18-4	
1,1,2-Trichlorotrifluoroethane	**1.4**	ug/L	1.0	1		10/19/09 21:42	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/19/09 21:42	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/19/09 21:42	108-67-8	
Vinyl acetate	ND	ug/L	20.0	1		10/19/09 21:42	108-05-4	
Vinyl chloride	ND	ug/L	0.40	1		10/19/09 21:42	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/19/09 21:42	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		10/19/09 21:42	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		10/19/09 21:42	95-47-6	
Dibromofluoromethane (S)	98	%	75-125	1		10/19/09 21:42	1868-53-7	
4-Bromofluorobenzene (S)	100	%	75-125	1		10/19/09 21:42	460-00-4	
Toluene-d8 (S)	99	%	75-125	1		10/19/09 21:42	2037-26-5	
1,2-Dichloroethane-d4 (S)	95	%	75-125	1		10/19/09 21:42	17060-07-0	

Sample: AS-Effluent **Lab ID: 10114959002** Collected: 10/15/09 14:50 Received: 10/19/09 12:42 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		10/19/09 21:19	67-64-1	
Acrolein	ND	ug/L	40.0	1		10/19/09 21:19	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1		10/19/09 21:19	107-13-1	
Allyl chloride	ND	ug/L	4.0	1		10/19/09 21:19	107-05-1	
Benzene	ND	ug/L	1.0	1		10/19/09 21:19	71-43-2	

REPORT OF LABORATORY ANALYSIS

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.: 10114959

Sample: AS-Effluent **Lab ID: 10114959002** Collected: 10/15/09 14:50 Received: 10/19/09 12:42 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		10/19/09 21:19	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/19/09 21:19	74-97-5	
Bromodichloromethane	ND	ug/L	4.0	1		10/19/09 21:19	75-27-4	
Bromoform	ND	ug/L	8.0	1		10/19/09 21:19	75-25-2	
Bromomethane	ND	ug/L	4.0	1		10/19/09 21:19	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		10/19/09 21:19	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		10/19/09 21:19	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		10/19/09 21:19	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/19/09 21:19	98-06-6	
Carbon disulfide	ND	ug/L	1.0	1		10/19/09 21:19	75-15-0	
Carbon tetrachloride	ND	ug/L	4.0	1		10/19/09 21:19	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/19/09 21:19	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/19/09 21:19	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		10/19/09 21:19	110-75-8	
Chloroform	ND	ug/L	1.0	1		10/19/09 21:19	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/19/09 21:19	74-87-3	
Chloroprene	ND	ug/L	1.0	1		10/19/09 21:19	126-99-8	
2-Chlorotoluene	ND	ug/L	1.0	1		10/19/09 21:19	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/19/09 21:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		10/19/09 21:19	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/19/09 21:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/19/09 21:19	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		10/19/09 21:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/19/09 21:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/19/09 21:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/19/09 21:19	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/19/09 21:19	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/19/09 21:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/19/09 21:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/19/09 21:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/19/09 21:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/19/09 21:19	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		10/19/09 21:19	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/19/09 21:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/19/09 21:19	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		10/19/09 21:19	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/19/09 21:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		10/19/09 21:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		10/19/09 21:19	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		10/19/09 21:19	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		10/19/09 21:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		10/19/09 21:19	87-68-3	
2-Hexanone	ND	ug/L	4.0	1		10/19/09 21:19	591-78-6	
Iodomethane	ND	ug/L	4.0	1		10/19/09 21:19	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/19/09 21:19	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		10/19/09 21:19	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		10/19/09 21:19	75-09-2	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10114959

Sample: AS-Effluent **Lab ID: 10114959002** Collected: 10/15/09 14:50 Received: 10/19/09 12:42 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		10/19/09 21:19	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		10/19/09 21:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/19/09 21:19	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		10/19/09 21:19	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		10/19/09 21:19	103-65-1	
Styrene	ND	ug/L	1.0	1		10/19/09 21:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/19/09 21:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/19/09 21:19	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/19/09 21:19	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		10/19/09 21:19	109-99-9	
Toluene	ND	ug/L	1.0	1		10/19/09 21:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		10/19/09 21:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/19/09 21:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/19/09 21:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	4.0	1		10/19/09 21:19	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/19/09 21:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	4.0	1		10/19/09 21:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/19/09 21:19	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		10/19/09 21:19	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/19/09 21:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/19/09 21:19	108-67-8	
Vinyl acetate	ND	ug/L	20.0	1		10/19/09 21:19	108-05-4	
Vinyl chloride	ND	ug/L	0.40	1		10/19/09 21:19	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/19/09 21:19	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		10/19/09 21:19	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		10/19/09 21:19	95-47-6	
Dibromofluoromethane (S)	99	%	75-125	1		10/19/09 21:19	1868-53-7	
4-Bromofluorobenzene (S)	101	%	75-125	1		10/19/09 21:19	460-00-4	
Toluene-d8 (S)	98	%	75-125	1		10/19/09 21:19	2037-26-5	
1,2-Dichloroethane-d4 (S)	99	%	75-125	1		10/19/09 21:19	17060-07-0	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10114959

QC Batch: MSV/13253 Analysis Method: EPA 624
QC Batch Method: EPA 624 Analysis Description: 624 MSV
Associated Lab Samples: 10114959001, 10114959002

METHOD BLANK: 699113 Matrix: Water
Associated Lab Samples: 10114959001, 10114959002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	10/19/09 15:11	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/19/09 15:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/19/09 15:11	
1,1,2-Trichloroethane	ug/L	ND	4.0	10/19/09 15:11	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	10/19/09 15:11	
1,1-Dichloroethane	ug/L	ND	1.0	10/19/09 15:11	
1,1-Dichloroethene	ug/L	ND	1.0	10/19/09 15:11	
1,1-Dichloropropene	ug/L	ND	1.0	10/19/09 15:11	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	10/19/09 15:11	
1,2,3-Trichloropropane	ug/L	ND	1.0	10/19/09 15:11	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	10/19/09 15:11	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	10/19/09 15:11	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	10/19/09 15:11	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/19/09 15:11	
1,2-Dichlorobenzene	ug/L	ND	1.0	10/19/09 15:11	
1,2-Dichloroethane	ug/L	ND	1.0	10/19/09 15:11	
1,2-Dichloropropane	ug/L	ND	1.0	10/19/09 15:11	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	10/19/09 15:11	
1,3-Dichlorobenzene	ug/L	ND	1.0	10/19/09 15:11	
1,3-Dichloropropane	ug/L	ND	1.0	10/19/09 15:11	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/19/09 15:11	
2,2-Dichloropropane	ug/L	ND	4.0	10/19/09 15:11	
2-Butanone (MEK)	ug/L	ND	4.0	10/19/09 15:11	
2-Chloroethylvinyl ether	ug/L	ND	10.0	10/19/09 15:11	
2-Chlorotoluene	ug/L	ND	1.0	10/19/09 15:11	
2-Hexanone	ug/L	ND	4.0	10/19/09 15:11	
2-Methylnaphthalene	ug/L	ND	5.0	10/19/09 15:11	
4-Chlorotoluene	ug/L	ND	1.0	10/19/09 15:11	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	10/19/09 15:11	
Acetone	ug/L	ND	10.0	10/19/09 15:11	
Acrolein	ug/L	ND	40.0	10/19/09 15:11	
Acrylonitrile	ug/L	ND	10.0	10/19/09 15:11	
Allyl chloride	ug/L	ND	4.0	10/19/09 15:11	
Benzene	ug/L	ND	1.0	10/19/09 15:11	
Bromobenzene	ug/L	ND	1.0	10/19/09 15:11	
Bromochloromethane	ug/L	ND	1.0	10/19/09 15:11	
Bromodichloromethane	ug/L	ND	4.0	10/19/09 15:11	
Bromoform	ug/L	ND	8.0	10/19/09 15:11	
Bromomethane	ug/L	ND	4.0	10/19/09 15:11	
Carbon disulfide	ug/L	ND	1.0	10/19/09 15:11	
Carbon tetrachloride	ug/L	ND	4.0	10/19/09 15:11	
Chlorobenzene	ug/L	ND	1.0	10/19/09 15:11	
Chloroethane	ug/L	ND	1.0	10/19/09 15:11	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10114959

METHOD BLANK: 699113 Matrix: Water

Associated Lab Samples: 10114959001, 10114959002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroform	ug/L	ND	1.0	10/19/09 15:11	
Chloromethane	ug/L	ND	1.0	10/19/09 15:11	
Chloroprene	ug/L	ND	1.0	10/19/09 15:11	
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/19/09 15:11	
cis-1,3-Dichloropropene	ug/L	ND	4.0	10/19/09 15:11	
Dibromochloromethane	ug/L	ND	1.0	10/19/09 15:11	
Dibromomethane	ug/L	ND	1.0	10/19/09 15:11	
Dichlorodifluoromethane	ug/L	ND	1.0	10/19/09 15:11	
Dichlorofluoromethane	ug/L	ND	1.0	10/19/09 15:11	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	10/19/09 15:11	
Ethylbenzene	ug/L	ND	1.0	10/19/09 15:11	
Hexachloro-1,3-butadiene	ug/L	ND	4.0	10/19/09 15:11	
Iodomethane	ug/L	ND	4.0	10/19/09 15:11	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	10/19/09 15:11	
m&p-Xylene	ug/L	ND	2.0	10/19/09 15:11	
Methyl-tert-butyl ether	ug/L	ND	1.0	10/19/09 15:11	
Methylene Chloride	ug/L	ND	4.0	10/19/09 15:11	
n-Butylbenzene	ug/L	ND	1.0	10/19/09 15:11	
n-Propylbenzene	ug/L	ND	1.0	10/19/09 15:11	
Naphthalene	ug/L	ND	4.0	10/19/09 15:11	
o-Xylene	ug/L	ND	1.0	10/19/09 15:11	
p-Isopropyltoluene	ug/L	ND	1.0	10/19/09 15:11	
sec-Butylbenzene	ug/L	ND	1.0	10/19/09 15:11	
Styrene	ug/L	ND	1.0	10/19/09 15:11	
tert-Butylbenzene	ug/L	ND	1.0	10/19/09 15:11	
Tetrachloroethene	ug/L	ND	1.0	10/19/09 15:11	
Tetrahydrofuran	ug/L	ND	10.0	10/19/09 15:11	
Toluene	ug/L	ND	1.0	10/19/09 15:11	
trans-1,2-Dichloroethene	ug/L	ND	1.0	10/19/09 15:11	
trans-1,3-Dichloropropene	ug/L	ND	4.0	10/19/09 15:11	
Trichloroethene	ug/L	ND	1.0	10/19/09 15:11	
Trichlorofluoromethane	ug/L	ND	4.0	10/19/09 15:11	
Vinyl acetate	ug/L	ND	20.0	10/19/09 15:11	
Vinyl chloride	ug/L	ND	0.40	10/19/09 15:11	
Xylene (Total)	ug/L	ND	3.0	10/19/09 15:11	
1,2-Dichloroethane-d4 (S)	%	91	75-125	10/19/09 15:11	
4-Bromofluorobenzene (S)	%	103	75-125	10/19/09 15:11	
Dibromofluoromethane (S)	%	97	75-125	10/19/09 15:11	
Toluene-d8 (S)	%	98	75-125	10/19/09 15:11	

LABORATORY CONTROL SAMPLE: 699114

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	46.0	92	75-129	
1,1,1-Trichloroethane	ug/L	50	45.1	90	73-144	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10114959

LABORATORY CONTROL SAMPLE: 699114

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	50	50.4	101	75-125	
1,1,2-Trichloroethane	ug/L	50	47.0	94	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	49.9	100	75-143	
1,1-Dichloroethane	ug/L	50	46.6	93	75-135	
1,1-Dichloroethene	ug/L	50	45.7	91	75-133	
1,1-Dichloropropene	ug/L	50	44.8	90	75-131	
1,2,3-Trichlorobenzene	ug/L	50	50.5	101	73-141	
1,2,3-Trichloropropane	ug/L	50	51.2	102	75-126	
1,2,4-Trichlorobenzene	ug/L	50	51.7	103	70-148	
1,2,4-Trimethylbenzene	ug/L	50	47.9	96	75-141	
1,2-Dibromo-3-chloropropane	ug/L	50	48.3	97	64-135	
1,2-Dibromoethane (EDB)	ug/L	50	49.6	99	75-125	
1,2-Dichlorobenzene	ug/L	50	48.6	97	75-125	
1,2-Dichloroethane	ug/L	50	43.9	88	75-136	
1,2-Dichloropropane	ug/L	50	46.7	93	75-130	
1,3,5-Trimethylbenzene	ug/L	50	47.7	95	75-141	
1,3-Dichlorobenzene	ug/L	50	47.9	96	75-125	
1,3-Dichloropropane	ug/L	50	48.0	96	75-125	
1,4-Dichlorobenzene	ug/L	50	47.8	96	75-125	
2,2-Dichloropropane	ug/L	50	46.9	94	50-150	
2-Butanone (MEK)	ug/L	50	49.0	98	58-138	
2-Chloroethylvinyl ether	ug/L	125	134	108	50-150	
2-Chlorotoluene	ug/L	50	46.7	93	75-132	
2-Hexanone	ug/L	50	50.2	100	65-135	
2-Methylnaphthalene	ug/L	50	60.0	120	62-150	
4-Chlorotoluene	ug/L	50	47.5	95	75-135	
4-Methyl-2-pentanone (MIBK)	ug/L	50	50.7	101	69-137	
Acetone	ug/L	125	124	99	52-141	
Acrolein	ug/L	500	555	111	50-150	
Acrylonitrile	ug/L	500	521	104	75-130	
Allyl chloride	ug/L	50	46.3	93	68-150	
Benzene	ug/L	50	46.9	94	75-125	
Bromobenzene	ug/L	50	49.0	98	75-125	
Bromochloromethane	ug/L	50	42.7	85	75-129	
Bromodichloromethane	ug/L	50	46.3	93	75-142	
Bromoform	ug/L	100	104	104	66-135	
Bromomethane	ug/L	50	50.9	102	57-150	
Carbon disulfide	ug/L	50	43.8	88	65-132	
Carbon tetrachloride	ug/L	50	47.1	94	75-148	
Chlorobenzene	ug/L	50	46.7	93	75-125	
Chloroethane	ug/L	50	44.4	89	66-142	
Chloroform	ug/L	50	45.2	90	75-131	
Chloromethane	ug/L	50	39.0	78	52-147	
Chloroprene	ug/L	50	45.5	91	71-147	
cis-1,2-Dichloroethene	ug/L	50	48.1	96	75-126	
cis-1,3-Dichloropropene	ug/L	50	50.3	101	69-150	
Dibromochloromethane	ug/L	50	48.6	97	73-138	
Dibromomethane	ug/L	50	45.7	91	75-127	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10114959

LABORATORY CONTROL SAMPLE: 699114

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dichlorodifluoromethane	ug/L	50	43.3	87	50-150	
Dichlorofluoromethane	ug/L	50	43.2	86	75-129	
Diethyl ether (Ethyl ether)	ug/L	50	51.0	102	75-126	
Ethylbenzene	ug/L	50	46.9	94	75-132	
Hexachloro-1,3-butadiene	ug/L	50	48.6	97	75-129	
Iodomethane	ug/L	50	49.4	99	73-150	
Isopropylbenzene (Cumene)	ug/L	50	47.6	95	75-142	
m&p-Xylene	ug/L	100	92.2	92	75-131	
Methyl-tert-butyl ether	ug/L	50	50.7	101	75-130	
Methylene Chloride	ug/L	50	44.5	89	71-125	
n-Butylbenzene	ug/L	50	48.6	97	70-148	
n-Propylbenzene	ug/L	50	48.8	98	75-136	
Naphthalene	ug/L	50	54.3	109	69-145	
o-Xylene	ug/L	50	47.2	94	75-129	
p-Isopropyltoluene	ug/L	50	47.3	95	75-132	
sec-Butylbenzene	ug/L	50	48.6	97	75-136	
Styrene	ug/L	50	49.3	99	75-125	
tert-Butylbenzene	ug/L	50	45.7	91	75-135	
Tetrachloroethene	ug/L	50	46.4	93	75-125	
Tetrahydrofuran	ug/L	500	501	100	63-144	
Toluene	ug/L	50	46.5	93	75-125	
trans-1,2-Dichloroethene	ug/L	50	46.2	92	72-135	
trans-1,3-Dichloropropene	ug/L	50	53.1	106	62-150	
Trichloroethene	ug/L	50	45.4	91	75-125	
Trichlorofluoromethane	ug/L	50	44.8	90	67-150	
Vinyl acetate	ug/L	50	51.5	103	55-150	
Vinyl chloride	ug/L	50	41.2	82	63-147	
Xylene (Total)	ug/L	150	139	93	75-130	
1,2-Dichloroethane-d4 (S)	%			93	75-125	
4-Bromofluorobenzene (S)	%			100	75-125	
Dibromofluoromethane (S)	%			99	75-125	
Toluene-d8 (S)	%			100	75-125	

MATRIX SPIKE SAMPLE: 699398

Parameter	Units	10114932001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	19.8	99	70-136	
1,1,1-Trichloroethane	ug/L	ND	20	21.4	107	68-150	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20.3	102	75-125	
1,1,2-Trichloroethane	ug/L	ND	20	19.6	98	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	26.1	131	75-150	
1,1-Dichloroethane	ug/L	ND	20	20.9	105	67-143	
1,1-Dichloroethene	ug/L	ND	20	22.9	115	75-147	
1,1-Dichloropropene	ug/L	ND	20	21.6	108	75-141	
1,2,3-Trichlorobenzene	ug/L	ND	20	20.3	102	71-141	
1,2,3-Trichloropropane	ug/L	ND	20	20.7	104	75-128	
1,2,4-Trichlorobenzene	ug/L	ND	20	21.1	105	61-148	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10114959

MATRIX SPIKE SAMPLE: 699398

Parameter	Units	10114932001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	ND	20	21.1	105	65-145	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	19.0	95	64-135	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20.6	103	75-126	
1,2-Dichlorobenzene	ug/L	ND	20	20.5	103	75-127	
1,2-Dichloroethane	ug/L	ND	20	18.5	92	70-138	
1,2-Dichloropropane	ug/L	ND	20	20.5	103	75-130	
1,3,5-Trimethylbenzene	ug/L	ND	20	21.1	106	61-150	
1,3-Dichlorobenzene	ug/L	ND	20	21.0	105	75-126	
1,3-Dichloropropane	ug/L	ND	20	20.4	102	75-125	
1,4-Dichlorobenzene	ug/L	ND	20	20.6	103	75-125	
2,2-Dichloropropane	ug/L	ND	20	20.1	100	50-150	
2-Butanone (MEK)	ug/L	ND	20	16.5	82	50-141	
2-Chloroethylvinyl ether	ug/L	ND	50	ND	0	50-150	P5
2-Chlorotoluene	ug/L	ND	20	21.1	105	75-137	
2-Hexanone	ug/L	ND	20	20.1	101	66-135	
2-Methylnaphthalene	ug/L	ND	20	22.0	110	62-150	
4-Chlorotoluene	ug/L	ND	20	20.8	104	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20.4	102	62-142	
Acetone	ug/L	ND	50	37.3	75	50-150	
Acrolein	ug/L	ND	200	241	121	50-150	
Acrylonitrile	ug/L	ND	200	202	101	70-135	
Allyl chloride	ug/L	ND	20	18.3	92	50-150	
Benzene	ug/L	ND	20	21.2	106	75-125	
Bromobenzene	ug/L	ND	20	20.9	105	75-125	
Bromochloromethane	ug/L	ND	20	19.1	96	73-137	
Bromodichloromethane	ug/L	ND	20	20.1	101	70-142	
Bromoform	ug/L	ND	40	40.3	101	55-135	
Bromomethane	ug/L	ND	20	21.7	109	50-150	
Carbon disulfide	ug/L	ND	20	24.6	123	50-150	
Carbon tetrachloride	ug/L	ND	20	21.8	109	64-150	
Chlorobenzene	ug/L	ND	20	21.0	105	75-125	
Chloroethane	ug/L	ND	20	22.3	111	59-150	
Chloroform	ug/L	ND	20	20.1	101	75-132	
Chloromethane	ug/L	ND	20	19.6	98	52-150	
Chloroprene	ug/L	ND	20	22.4	112	54-150	
cis-1,2-Dichloroethene	ug/L	1.9	20	23.0	106	64-144	
cis-1,3-Dichloropropene	ug/L	ND	20	21.0	105	56-150	
Dibromochloromethane	ug/L	ND	20	19.5	98	60-138	
Dibromomethane	ug/L	ND	20	19.3	96	75-127	
Dichlorodifluoromethane	ug/L	ND	20	24.7	123	50-150	
Dichlorofluoromethane	ug/L	ND	20	20.9	104	74-142	
Diethyl ether (Ethyl ether)	ug/L	ND	20	20.4	102	75-127	
Ethylbenzene	ug/L	ND	20	21.6	108	75-134	
Hexachloro-1,3-butadiene	ug/L	ND	20	21.4	107	63-150	
Iodomethane	ug/L	ND	20	21.2	106	50-150	
Isopropylbenzene (Cumene)	ug/L	ND	20	21.8	109	69-147	
m&p-Xylene	ug/L	ND	40	42.1	105	75-133	
Methyl-tert-butyl ether	ug/L	ND	20	20.5	102	73-131	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10114959

MATRIX SPIKE SAMPLE: 699398

Parameter	Units	10114932001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	ND	20	19.9	100	68-126	
n-Butylbenzene	ug/L	ND	20	22.2	111	59-150	
n-Propylbenzene	ug/L	ND	20	22.0	110	72-143	
Naphthalene	ug/L	ND	20	21.5	107	57-148	
o-Xylene	ug/L	ND	20	21.3	107	75-131	
p-Isopropyltoluene	ug/L	ND	20	21.2	106	75-137	
sec-Butylbenzene	ug/L	ND	20	22.1	110	75-144	
Styrene	ug/L	ND	20	21.5	108	75-134	
tert-Butylbenzene	ug/L	ND	20	20.8	104	68-150	
Tetrachloroethene	ug/L	ND	20	22.2	111	75-130	
Tetrahydrofuran	ug/L	ND	200	203	101	60-148	
Toluene	ug/L	ND	20	21.4	107	75-125	
trans-1,2-Dichloroethene	ug/L	ND	20	21.5	108	75-145	
trans-1,3-Dichloropropene	ug/L	ND	20	20.7	104	50-150	
Trichloroethene	ug/L	ND	20	20.8	104	73-132	
Trichlorofluoromethane	ug/L	ND	20	23.6	118	67-150	
Vinyl acetate	ug/L	ND	20	20.7	103	50-150	
Vinyl chloride	ug/L	1.2	20	21.8	103	63-150	
Xylene (Total)	ug/L	ND	60	63.4	106	72-138	
1,2-Dichloroethane-d4 (S)	%				92	75-125	
4-Bromofluorobenzene (S)	%				102	75-125	
Dibromofluoromethane (S)	%				96	75-125	
Toluene-d8 (S)	%				102	75-125	

SAMPLE DUPLICATE: 699399

Parameter	Units	10114932002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,2-Trichloroethane	ug/L	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	ND		30	
1,1-Dichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethene	ug/L	ND	ND		30	
1,1-Dichloropropene	ug/L	ND	ND		30	
1,2,3-Trichlorobenzene	ug/L	ND	ND		30	
1,2,3-Trichloropropane	ug/L	ND	ND		30	
1,2,4-Trichlorobenzene	ug/L	ND	ND		30	
1,2,4-Trimethylbenzene	ug/L	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		30	
1,2-Dichlorobenzene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L	ND	ND		30	
1,2-Dichloropropane	ug/L	ND	ND		30	
1,3,5-Trimethylbenzene	ug/L	ND	ND		30	
1,3-Dichlorobenzene	ug/L	ND	ND		30	
1,3-Dichloropropane	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10114959

SAMPLE DUPLICATE: 699399

Parameter	Units	10114932002 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	2.2	2.2	0	30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Dichlorofluoromethane	ug/L	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
Iodomethane	ug/L	ND	ND		30	
Isopropylbenzene (Cumene)	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
n-Butylbenzene	ug/L	ND	ND		30	
n-Propylbenzene	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
sec-Butylbenzene	ug/L	ND	ND		30	
Styrene	ug/L	ND	ND		30	
tert-Butylbenzene	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10114959

SAMPLE DUPLICATE: 699399

Parameter	Units	10114932002 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	1.1	1.1	8	30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	99	95	3		
4-Bromofluorobenzene (S)	%	102	101	0		
Dibromofluoromethane (S)	%	100	96	4		
Toluene-d8 (S)	%	99	99	0		

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QUALIFIERS

Project: CRC City of Rochester
Pace Project No.: 10114959

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

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

ANALYTE QUALIFIERS

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC City of Rochester
Pace Project No.: 10114959

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10114959001	**AS-Influent**	EPA 624	MSV/13253		
10114959002	**AS-Effluent**	EPA 624	MSV/13253		

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CHAIN-OF-CUSTODY / Analytical Request Document

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

10114959

Page: of

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

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER________

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

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	10/~~14~~ 15/09	14:50				2									X	10114959001
2	AS-Effluent	W	G	10/~~14~~/09 15	14:50				2									X	002
3																			
4																			
5																			
6																			
7																			
8																			
5																			
6																			
7																			
8																			

Coll date 10/15/09 per J. Skramstad [initials]

Pace Project No.: 1124

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
			[signature] Pace	10/15/09	1242

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
3.2	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: Eric Gabrielson

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM / DD / YY): 10/19/09

F:\PROJECTS\Crc-City of Rochester\Analytical Reports\coc 10-14-09.XLS

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

Sample Condition Upon Receipt

Pace Analytical

Client Name: Landmark **Project #** 10114959

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 3.2c **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Comments:

Date and initials of person examining contents: 10/16/07

Chain of Custody Present:	☑Yes	☐No	☐N/A
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A
Chain of Custody Relinquished:	☐Yes	☑No	☐N/A
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A
Sufficient Volume:	☑Yes	☐No	☐N/A
Correct Containers Used:	☑Yes	☐No	☐N/A
-Pace Containers Used:	☑Yes	☐No	☐N/A
Containers Intact:	☐Yes	☑No	☐N/A
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A
Sample Labels match COC:	☐Yes	☑No	☐N/A
-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
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	
Samples checked for dechlorination:	☐Yes	☐No	☑N/A
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A
Trip Blank Present:	☐Yes	☑No	☐N/A
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A
Pace Trip Blank Lot # (if purchased): _____			

1.
2.
3.
4.
5.
6.
7.
8.
9.
10. Using bottle for As inlet
11.
12.
13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ HCl Samp #

Initial when completed: [illegible] Lot # of added preservative:

14.
15.
16.

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: COC says As-influent = As inlet
As-effluent = As outlet per Carolyne trust
Rec

Project Manager Review: C Trost **Date:** 10/19/07

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

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Minneapolis, MN 55414
(612)607-1700

October 09, 2009

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

RE: Project: CITY OF ROCHESTER
Pace Project No.: 10113554

Dear Mr. Skramstad:
Enclosed are the analytical results for sample(s) received by the laboratory on September 29, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Carolynne Trout

Carolynne Trout

carolynne.trout@pacelabs.com
Project Manager

Enclosures

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

CERTIFICATIONS

Project: CITY OF ROCHESTER
Pace Project No.: 10113554

Minnesota Certification IDs

1700 Elm Street SE, Suite 200 Minneapolis, MN 55414
Wisconsin Certification #: 999407970
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
Minnesota Certification #: 027-053-137
Montana Certification #: MT CERT0092
New Jersey Certification #: MN-002
New York Certification #: 11647
Washington Certification #: C754
Tennessee Certification #: 02818
Pennsylvania Certification #: 68-00563
Oregon Certification #: MN200001
North Dakota Certification #: R-036
North Carolina Certification #: 530

Green Bay Certification IDs

New York Certification #: 11887
California Certification #: 09268CA
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
1241 Bellevue Street Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Kentucky Certification #: 83
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888

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SAMPLE SUMMARY

Project: CITY OF ROCHESTER
Pace Project No.: 10113554

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10113554001	**DPE-1**	Water	09/28/09 12:52	09/29/09 10:00
10113554002	**DPE-2**	Water	09/28/09 14:22	09/29/09 10:00
10113554003	**DPE-3**	Water	09/28/09 15:25	09/29/09 10:00
10113554004	**DPE-4**	Water	09/28/09 10:13	09/29/09 10:00

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SAMPLE ANALYTE COUNT

Project: CITY OF ROCHESTER
Pace Project No.: 10113554

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10113554001	**DPE-1**	ASTM D516-02	ACH	1	PASI-M
		EPA 200.7	TEM	1	PASI-M
		EPA 300.0	DDY	1	PASI-G
		EPA 8260	CNC	73	PASI-M
		RSK 175	CJR	1	PASI-M
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	JMM	1	PASI-G
10113554002	**DPE-2**	ASTM D516-02	ACH	1	PASI-M
		EPA 200.7	TEM	1	PASI-M
		EPA 300.0	DDY	1	PASI-G
		EPA 8260	CNC	73	PASI-M
		RSK 175	CJR	1	PASI-M
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	JMM	1	PASI-G
10113554003	**DPE-3**	ASTM D516-02	ACH	1	PASI-M
		EPA 200.7	TEM	1	PASI-M
		EPA 300.0	DDY	1	PASI-G
		EPA 8260	CNC	73	PASI-M
		RSK 175	CJR	1	PASI-M
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	JMM	1	PASI-G
10113554004	**DPE-4**	ASTM D516-02	ACH	1	PASI-M
		EPA 200.7	TEM	1	PASI-M
		EPA 300.0	DDY	1	PASI-G
		EPA 8260	CNC	73	PASI-M
		RSK 175	CJR	1	PASI-M
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	JMM	1	PASI-G

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(612)607-1700

ANALYTICAL RESULTS

Project: CITY OF ROCHESTER
Pace Project No.: 10113554

Sample: DPE-1 **Lab ID: 10113554001** Collected: 09/28/09 12:52 Received: 09/29/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Methane	ND	ug/L	10.0	1		10/05/09 15:13	74-82-8	
200.7 MET ICP, Lab Filtered	Analytical Method: EPA 200.7		Preparation Method: EPA 200.7					
Iron, Dissolved	ND	ug/L	50.0	1	10/02/09 17:56	10/04/09 10:09	7439-89-6	
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	500	50		10/01/09 18:47	67-64-1	
Allyl chloride	ND	ug/L	200	50		10/01/09 18:47	107-05-1	
Benzene	ND	ug/L	50.0	50		10/01/09 18:47	71-43-2	
Bromobenzene	ND	ug/L	50.0	50		10/01/09 18:47	108-86-1	
Bromochloromethane	ND	ug/L	50.0	50		10/01/09 18:47	74-97-5	
Bromodichloromethane	ND	ug/L	50.0	50		10/01/09 18:47	75-27-4	
Bromoform	ND	ug/L	400	50		10/01/09 18:47	75-25-2	
Bromomethane	ND	ug/L	200	50		10/01/09 18:47	74-83-9	
2-Butanone (MEK)	ND	ug/L	200	50		10/01/09 18:47	78-93-3	
n-Butylbenzene	ND	ug/L	50.0	50		10/01/09 18:47	104-51-8	
sec-Butylbenzene	ND	ug/L	50.0	50		10/01/09 18:47	135-98-8	
tert-Butylbenzene	ND	ug/L	50.0	50		10/01/09 18:47	98-06-6	
Carbon tetrachloride	ND	ug/L	50.0	50		10/01/09 18:47	56-23-5	
Chlorobenzene	ND	ug/L	50.0	50		10/01/09 18:47	108-90-7	
Chloroethane	ND	ug/L	50.0	50		10/01/09 18:47	75-00-3	
Chloroform	ND	ug/L	50.0	50		10/01/09 18:47	67-66-3	
Chloromethane	ND	ug/L	200	50		10/01/09 18:47	74-87-3	
2-Chlorotoluene	ND	ug/L	50.0	50		10/01/09 18:47	95-49-8	
4-Chlorotoluene	ND	ug/L	50.0	50		10/01/09 18:47	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	200	50		10/01/09 18:47	96-12-8	
Dibromochloromethane	ND	ug/L	50.0	50		10/01/09 18:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	50.0	50		10/01/09 18:47	106-93-4	
Dibromomethane	ND	ug/L	50.0	50		10/01/09 18:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	50.0	50		10/01/09 18:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	50.0	50		10/01/09 18:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	50.0	50		10/01/09 18:47	106-46-7	
Dichlorodifluoromethane	ND	ug/L	50.0	50		10/01/09 18:47	75-71-8	
1,1-Dichloroethane	ND	ug/L	50.0	50		10/01/09 18:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	50.0	50		10/01/09 18:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	50		10/01/09 18:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	50.0	50		10/01/09 18:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	50.0	50		10/01/09 18:47	156-60-5	
Dichlorofluoromethane	ND	ug/L	50.0	50		10/01/09 18:47	75-43-4	
1,2-Dichloropropane	ND	ug/L	50.0	50		10/01/09 18:47	78-87-5	
1,3-Dichloropropane	ND	ug/L	50.0	50		10/01/09 18:47	142-28-9	
2,2-Dichloropropane	ND	ug/L	50.0	50		10/01/09 18:47	594-20-7	
1,1-Dichloropropene	ND	ug/L	50.0	50		10/01/09 18:47	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	200	50		10/01/09 18:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	200	50		10/01/09 18:47	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	200	50		10/01/09 18:47	60-29-7	

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ANALYTICAL RESULTS

Project: CITY OF ROCHESTER
Pace Project No.: 10113554

Sample: DPE-1 **Lab ID: 10113554001** Collected: 09/28/09 12:52 Received: 09/29/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Ethylbenzene	ND	ug/L	50.0	50		10/01/09 18:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	200	50		10/01/09 18:47	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	50.0	50		10/01/09 18:47	98-82-8	
p-Isopropyltoluene	ND	ug/L	50.0	50		10/01/09 18:47	99-87-6	
Methylene Chloride	ND	ug/L	200	50		10/01/09 18:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	200	50		10/01/09 18:47	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	50.0	50		10/01/09 18:47	1634-04-4	
Naphthalene	ND	ug/L	200	50		10/01/09 18:47	91-20-3	
n-Propylbenzene	ND	ug/L	50.0	50		10/01/09 18:47	103-65-1	
Styrene	ND	ug/L	50.0	50		10/01/09 18:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	50.0	50		10/01/09 18:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	50.0	50		10/01/09 18:47	79-34-5	
Tetrachloroethene	**6820**	ug/L	50.0	50		10/01/09 18:47	127-18-4	
Tetrahydrofuran	ND	ug/L	500	50		10/01/09 18:47	109-99-9	
Toluene	ND	ug/L	50.0	50		10/01/09 18:47	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	50.0	50		10/01/09 18:47	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	50.0	50		10/01/09 18:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	50.0	50		10/01/09 18:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	50.0	50		10/01/09 18:47	79-00-5	
Trichloroethene	ND	ug/L	50.0	50		10/01/09 18:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	50.0	50		10/01/09 18:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	50.0	50		10/01/09 18:47	96-18-4	
1,1,2-Trichlorotrifluoroethane	**912**	ug/L	50.0	50		10/01/09 18:47	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	50.0	50		10/01/09 18:47	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	50.0	50		10/01/09 18:47	108-67-8	
Vinyl chloride	ND	ug/L	20.0	50		10/01/09 18:47	75-01-4	
Xylene (Total)	ND	ug/L	150	50		10/01/09 18:47	1330-20-7	
m&p-Xylene	ND	ug/L	100	50		10/01/09 18:47	1330-20-7	
o-Xylene	ND	ug/L	50.0	50		10/01/09 18:47	95-47-6	
Dibromofluoromethane (S)	101	%	75-125	50		10/01/09 18:47	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	75-125	50		10/01/09 18:47	17060-07-0	
Toluene-d8 (S)	96	%	75-125	50		10/01/09 18:47	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125	50		10/01/09 18:47	460-00-4	
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)							
Sulfide	ND	mg/L	5.0	1		10/02/09 09:30		
300.0 IC Anions	Analytical Method: EPA 300.0							
Nitrate as N	**5.9**	mg/L	0.40	1		09/30/09 10:17	14797-55-8	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C							
Dissolved Organic Carbon	ND	mg/L	2.0	1		10/02/09 08:50		
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-02							
Sulfate	**157**	mg/L	25.0	10		10/07/09 16:46	14808-79-8	

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ANALYTICAL RESULTS

Project: CITY OF ROCHESTER
Pace Project No.: 10113554

Sample: DPE-2 **Lab ID: 10113554002** Collected: 09/28/09 14:22 Received: 09/29/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Methane	ND	ug/L	10.0	1		10/05/09 15:38	74-82-8	pH
200.7 MET ICP, Lab Filtered	Analytical Method: EPA 200.7		Preparation Method: EPA 200.7					
Iron, Dissolved	ND	ug/L	50.0	1	10/02/09 17:56	10/04/09 10:16	7439-89-6	
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	2500	250		10/01/09 19:53	67-64-1	
Allyl chloride	ND	ug/L	1000	250		10/01/09 19:53	107-05-1	
Benzene	ND	ug/L	250	250		10/01/09 19:53	71-43-2	
Bromobenzene	ND	ug/L	250	250		10/01/09 19:53	108-86-1	
Bromochloromethane	ND	ug/L	250	250		10/01/09 19:53	74-97-5	
Bromodichloromethane	ND	ug/L	250	250		10/01/09 19:53	75-27-4	
Bromoform	ND	ug/L	2000	250		10/01/09 19:53	75-25-2	
Bromomethane	ND	ug/L	1000	250		10/01/09 19:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	1000	250		10/01/09 19:53	78-93-3	
n-Butylbenzene	ND	ug/L	250	250		10/01/09 19:53	104-51-8	
sec-Butylbenzene	ND	ug/L	250	250		10/01/09 19:53	135-98-8	
tert-Butylbenzene	ND	ug/L	250	250		10/01/09 19:53	98-06-6	
Carbon tetrachloride	ND	ug/L	250	250		10/01/09 19:53	56-23-5	
Chlorobenzene	ND	ug/L	250	250		10/01/09 19:53	108-90-7	
Chloroethane	ND	ug/L	250	250		10/01/09 19:53	75-00-3	
Chloroform	ND	ug/L	250	250		10/01/09 19:53	67-66-3	
Chloromethane	ND	ug/L	1000	250		10/01/09 19:53	74-87-3	
2-Chlorotoluene	ND	ug/L	250	250		10/01/09 19:53	95-49-8	
4-Chlorotoluene	ND	ug/L	250	250		10/01/09 19:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1000	250		10/01/09 19:53	96-12-8	
Dibromochloromethane	ND	ug/L	250	250		10/01/09 19:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	250	250		10/01/09 19:53	106-93-4	
Dibromomethane	ND	ug/L	250	250		10/01/09 19:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	250	250		10/01/09 19:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	250	250		10/01/09 19:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	250	250		10/01/09 19:53	106-46-7	
Dichlorodifluoromethane	ND	ug/L	250	250		10/01/09 19:53	75-71-8	
1,1-Dichloroethane	ND	ug/L	250	250		10/01/09 19:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	250	250		10/01/09 19:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	250	250		10/01/09 19:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	250	250		10/01/09 19:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	250	250		10/01/09 19:53	156-60-5	
Dichlorofluoromethane	ND	ug/L	250	250		10/01/09 19:53	75-43-4	
1,2-Dichloropropane	ND	ug/L	250	250		10/01/09 19:53	78-87-5	
1,3-Dichloropropane	ND	ug/L	250	250		10/01/09 19:53	142-28-9	
2,2-Dichloropropane	ND	ug/L	250	250		10/01/09 19:53	594-20-7	
1,1-Dichloropropene	ND	ug/L	250	250		10/01/09 19:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1000	250		10/01/09 19:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1000	250		10/01/09 19:53	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	1000	250		10/01/09 19:53	60-29-7	

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(612)607-1700

ANALYTICAL RESULTS

Project: CITY OF ROCHESTER
Pace Project No.: 10113554

Sample: DPE-2 **Lab ID: 10113554002** Collected: 09/28/09 14:22 Received: 09/29/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Ethylbenzene	ND	ug/L	250	250		10/01/09 19:53	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1000	250		10/01/09 19:53	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	250	250		10/01/09 19:53	98-82-8	
p-Isopropyltoluene	ND	ug/L	250	250		10/01/09 19:53	99-87-6	
Methylene Chloride	ND	ug/L	1000	250		10/01/09 19:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	1000	250		10/01/09 19:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	250	250		10/01/09 19:53	1634-04-4	
Naphthalene	ND	ug/L	1000	250		10/01/09 19:53	91-20-3	
n-Propylbenzene	ND	ug/L	250	250		10/01/09 19:53	103-65-1	
Styrene	ND	ug/L	250	250		10/01/09 19:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	250	250		10/01/09 19:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	250	250		10/01/09 19:53	79-34-5	
Tetrachloroethene	**32000**	ug/L	250	250		10/01/09 19:53	127-18-4	
Tetrahydrofuran	ND	ug/L	2500	250		10/01/09 19:53	109-99-9	
Toluene	ND	ug/L	250	250		10/01/09 19:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	250	250		10/01/09 19:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	250	250		10/01/09 19:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	250	250		10/01/09 19:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	250	250		10/01/09 19:53	79-00-5	
Trichloroethene	ND	ug/L	250	250		10/01/09 19:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	250	250		10/01/09 19:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	250	250		10/01/09 19:53	96-18-4	
1,1,2-Trichlorotrifluoroethane	**1620**	ug/L	250	250		10/01/09 19:53	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	250	250		10/01/09 19:53	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	250	250		10/01/09 19:53	108-67-8	
Vinyl chloride	ND	ug/L	100	250		10/01/09 19:53	75-01-4	
Xylene (Total)	ND	ug/L	750	250		10/01/09 19:53	1330-20-7	
m&p-Xylene	ND	ug/L	500	250		10/01/09 19:53	1330-20-7	
o-Xylene	ND	ug/L	250	250		10/01/09 19:53	95-47-6	
Dibromofluoromethane (S)	100	%	75-125	250		10/01/09 19:53	1868-53-7	pH
1,2-Dichloroethane-d4 (S)	104	%	75-125	250		10/01/09 19:53	17060-07-0	
Toluene-d8 (S)	98	%	75-125	250		10/01/09 19:53	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125	250		10/01/09 19:53	460-00-4	
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)							
Sulfide	ND	mg/L	5.0	1		10/02/09 09:30		
300.0 IC Anions	Analytical Method: EPA 300.0							
Nitrate as N	**4.9**	mg/L	0.40	1		09/30/09 10:31	14797-55-8	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C							
Dissolved Organic Carbon	**2.0**	mg/L	2.0	1		10/02/09 09:09		
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-02							
Sulfate	**174**	mg/L	25.0	10		10/07/09 16:46	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: CITY OF ROCHESTER
Pace Project No.: 10113554

Sample: DPE-3 **Lab ID: 10113554003** Collected: 09/28/09 15:25 Received: 09/29/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Methane	ND	ug/L	10.0	1		10/05/09 19:28	74-82-8	
200.7 MET ICP, Lab Filtered	Analytical Method: EPA 200.7		Preparation Method: EPA 200.7					
Iron, Dissolved	ND	ug/L	50.0	1	10/02/09 17:56	10/04/09 10:23	7439-89-6	
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	2000	200		10/01/09 19:31	67-64-1	
Allyl chloride	ND	ug/L	800	200		10/01/09 19:31	107-05-1	
Benzene	ND	ug/L	200	200		10/01/09 19:31	71-43-2	
Bromobenzene	ND	ug/L	200	200		10/01/09 19:31	108-86-1	
Bromochloromethane	ND	ug/L	200	200		10/01/09 19:31	74-97-5	
Bromodichloromethane	ND	ug/L	200	200		10/01/09 19:31	75-27-4	
Bromoform	ND	ug/L	1600	200		10/01/09 19:31	75-25-2	
Bromomethane	ND	ug/L	800	200		10/01/09 19:31	74-83-9	
2-Butanone (MEK)	ND	ug/L	800	200		10/01/09 19:31	78-93-3	
n-Butylbenzene	ND	ug/L	200	200		10/01/09 19:31	104-51-8	
sec-Butylbenzene	ND	ug/L	200	200		10/01/09 19:31	135-98-8	
tert-Butylbenzene	ND	ug/L	200	200		10/01/09 19:31	98-06-6	
Carbon tetrachloride	ND	ug/L	200	200		10/01/09 19:31	56-23-5	
Chlorobenzene	ND	ug/L	200	200		10/01/09 19:31	108-90-7	
Chloroethane	ND	ug/L	200	200		10/01/09 19:31	75-00-3	
Chloroform	ND	ug/L	200	200		10/01/09 19:31	67-66-3	
Chloromethane	ND	ug/L	800	200		10/01/09 19:31	74-87-3	
2-Chlorotoluene	ND	ug/L	200	200		10/01/09 19:31	95-49-8	
4-Chlorotoluene	ND	ug/L	200	200		10/01/09 19:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	800	200		10/01/09 19:31	96-12-8	
Dibromochloromethane	ND	ug/L	200	200		10/01/09 19:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	200	200		10/01/09 19:31	106-93-4	
Dibromomethane	ND	ug/L	200	200		10/01/09 19:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	200	200		10/01/09 19:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	200	200		10/01/09 19:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	200	200		10/01/09 19:31	106-46-7	
Dichlorodifluoromethane	ND	ug/L	200	200		10/01/09 19:31	75-71-8	
1,1-Dichloroethane	ND	ug/L	200	200		10/01/09 19:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	200	200		10/01/09 19:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	200	200		10/01/09 19:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	200	200		10/01/09 19:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	200	200		10/01/09 19:31	156-60-5	
Dichlorofluoromethane	ND	ug/L	200	200		10/01/09 19:31	75-43-4	
1,2-Dichloropropane	ND	ug/L	200	200		10/01/09 19:31	78-87-5	
1,3-Dichloropropane	ND	ug/L	200	200		10/01/09 19:31	142-28-9	
2,2-Dichloropropane	ND	ug/L	200	200		10/01/09 19:31	594-20-7	
1,1-Dichloropropene	ND	ug/L	200	200		10/01/09 19:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	800	200		10/01/09 19:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	800	200		10/01/09 19:31	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	800	200		10/01/09 19:31	60-29-7	

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(612)607-1700

ANALYTICAL RESULTS

Project: CITY OF ROCHESTER
Pace Project No.: 10113554

Sample: DPE-3 **Lab ID: 10113554003** Collected: 09/28/09 15:25 Received: 09/29/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Ethylbenzene	ND	ug/L	200	200		10/01/09 19:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	800	200		10/01/09 19:31	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	200	200		10/01/09 19:31	98-82-8	
p-Isopropyltoluene	ND	ug/L	200	200		10/01/09 19:31	99-87-6	
Methylene Chloride	ND	ug/L	800	200		10/01/09 19:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	800	200		10/01/09 19:31	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	200	200		10/01/09 19:31	1634-04-4	
Naphthalene	ND	ug/L	800	200		10/01/09 19:31	91-20-3	
n-Propylbenzene	ND	ug/L	200	200		10/01/09 19:31	103-65-1	
Styrene	ND	ug/L	200	200		10/01/09 19:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	200	200		10/01/09 19:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	200	200		10/01/09 19:31	79-34-5	
Tetrachloroethene	**20300**	ug/L	200	200		10/01/09 19:31	127-18-4	
Tetrahydrofuran	ND	ug/L	2000	200		10/01/09 19:31	109-99-9	
Toluene	ND	ug/L	200	200		10/01/09 19:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	200	200		10/01/09 19:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	200	200		10/01/09 19:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	200	200		10/01/09 19:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	200	200		10/01/09 19:31	79-00-5	
Trichloroethene	ND	ug/L	200	200		10/01/09 19:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	200	200		10/01/09 19:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	200	200		10/01/09 19:31	96-18-4	
1,1,2-Trichlorotrifluoroethane	**843**	ug/L	200	200		10/01/09 19:31	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	200	200		10/01/09 19:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	200	200		10/01/09 19:31	108-67-8	
Vinyl chloride	ND	ug/L	80.0	200		10/01/09 19:31	75-01-4	
Xylene (Total)	ND	ug/L	600	200		10/01/09 19:31	1330-20-7	
m&p-Xylene	ND	ug/L	400	200		10/01/09 19:31	1330-20-7	
o-Xylene	ND	ug/L	200	200		10/01/09 19:31	95-47-6	
Dibromofluoromethane (S)	100	%	75-125	200		10/01/09 19:31	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	75-125	200		10/01/09 19:31	17060-07-0	
Toluene-d8 (S)	97	%	75-125	200		10/01/09 19:31	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125	200		10/01/09 19:31	460-00-4	
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)							
Sulfide	ND	mg/L	5.0	1		10/02/09 09:30		
300.0 IC Anions	Analytical Method: EPA 300.0							
Nitrate as N	**7.1**	mg/L	0.40	1		09/30/09 12:53	14797-55-8	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C							
Dissolved Organic Carbon	**3.7**	mg/L	2.0	1		10/02/09 09:13		
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-02							
Sulfate	**296**	mg/L	50.0	20		10/07/09 16:58	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: CITY OF ROCHESTER
Pace Project No.: 10113554

Sample: DPE-4 **Lab ID: 10113554004** Collected: 09/28/09 10:13 Received: 09/29/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Methane	ND	ug/L	10.0	1		10/05/09 19:53	74-82-8	
200.7 MET ICP, Lab Filtered	Analytical Method: EPA 200.7		Preparation Method: EPA 200.7					
Iron, Dissolved	ND	ug/L	50.0	1	10/02/09 17:56	10/04/09 10:29	7439-89-6	
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	500	50		10/01/09 19:09	67-64-1	
Allyl chloride	ND	ug/L	200	50		10/01/09 19:09	107-05-1	
Benzene	ND	ug/L	50.0	50		10/01/09 19:09	71-43-2	
Bromobenzene	ND	ug/L	50.0	50		10/01/09 19:09	108-86-1	
Bromochloromethane	ND	ug/L	50.0	50		10/01/09 19:09	74-97-5	
Bromodichloromethane	ND	ug/L	50.0	50		10/01/09 19:09	75-27-4	
Bromoform	ND	ug/L	400	50		10/01/09 19:09	75-25-2	
Bromomethane	ND	ug/L	200	50		10/01/09 19:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	200	50		10/01/09 19:09	78-93-3	
n-Butylbenzene	ND	ug/L	50.0	50		10/01/09 19:09	104-51-8	
sec-Butylbenzene	ND	ug/L	50.0	50		10/01/09 19:09	135-98-8	
tert-Butylbenzene	ND	ug/L	50.0	50		10/01/09 19:09	98-06-6	
Carbon tetrachloride	ND	ug/L	50.0	50		10/01/09 19:09	56-23-5	
Chlorobenzene	ND	ug/L	50.0	50		10/01/09 19:09	108-90-7	
Chloroethane	ND	ug/L	50.0	50		10/01/09 19:09	75-00-3	
Chloroform	ND	ug/L	50.0	50		10/01/09 19:09	67-66-3	
Chloromethane	ND	ug/L	200	50		10/01/09 19:09	74-87-3	
2-Chlorotoluene	ND	ug/L	50.0	50		10/01/09 19:09	95-49-8	
4-Chlorotoluene	ND	ug/L	50.0	50		10/01/09 19:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	200	50		10/01/09 19:09	96-12-8	
Dibromochloromethane	ND	ug/L	50.0	50		10/01/09 19:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	50.0	50		10/01/09 19:09	106-93-4	
Dibromomethane	ND	ug/L	50.0	50		10/01/09 19:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	50.0	50		10/01/09 19:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	50.0	50		10/01/09 19:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	50.0	50		10/01/09 19:09	106-46-7	
Dichlorodifluoromethane	ND	ug/L	50.0	50		10/01/09 19:09	75-71-8	
1,1-Dichloroethane	ND	ug/L	50.0	50		10/01/09 19:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	50.0	50		10/01/09 19:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	50		10/01/09 19:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	50.0	50		10/01/09 19:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	50.0	50		10/01/09 19:09	156-60-5	
Dichlorofluoromethane	ND	ug/L	50.0	50		10/01/09 19:09	75-43-4	
1,2-Dichloropropane	ND	ug/L	50.0	50		10/01/09 19:09	78-87-5	
1,3-Dichloropropane	ND	ug/L	50.0	50		10/01/09 19:09	142-28-9	
2,2-Dichloropropane	ND	ug/L	50.0	50		10/01/09 19:09	594-20-7	
1,1-Dichloropropene	ND	ug/L	50.0	50		10/01/09 19:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	200	50		10/01/09 19:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	200	50		10/01/09 19:09	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	200	50		10/01/09 19:09	60-29-7	

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(612)607-1700

ANALYTICAL RESULTS

Project: CITY OF ROCHESTER
Pace Project No.: 10113554

Sample: DPE-4 **Lab ID: 10113554004** Collected: 09/28/09 10:13 Received: 09/29/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Ethylbenzene	ND	ug/L	50.0	50		10/01/09 19:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	200	50		10/01/09 19:09	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	50.0	50		10/01/09 19:09	98-82-8	
p-Isopropyltoluene	ND	ug/L	50.0	50		10/01/09 19:09	99-87-6	
Methylene Chloride	ND	ug/L	200	50		10/01/09 19:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	200	50		10/01/09 19:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	50.0	50		10/01/09 19:09	1634-04-4	
Naphthalene	ND	ug/L	200	50		10/01/09 19:09	91-20-3	
n-Propylbenzene	ND	ug/L	50.0	50		10/01/09 19:09	103-65-1	
Styrene	ND	ug/L	50.0	50		10/01/09 19:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	50.0	50		10/01/09 19:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	50.0	50		10/01/09 19:09	79-34-5	
Tetrachloroethene	**7340**	ug/L	50.0	50		10/01/09 19:09	127-18-4	
Tetrahydrofuran	ND	ug/L	500	50		10/01/09 19:09	109-99-9	
Toluene	ND	ug/L	50.0	50		10/01/09 19:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	50.0	50		10/01/09 19:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	50.0	50		10/01/09 19:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	50.0	50		10/01/09 19:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	50.0	50		10/01/09 19:09	79-00-5	
Trichloroethene	ND	ug/L	50.0	50		10/01/09 19:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	50.0	50		10/01/09 19:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	50.0	50		10/01/09 19:09	96-18-4	
1,1,2-Trichlorotrifluoroethane	**339**	ug/L	50.0	50		10/01/09 19:09	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	50.0	50		10/01/09 19:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	50.0	50		10/01/09 19:09	108-67-8	
Vinyl chloride	ND	ug/L	20.0	50		10/01/09 19:09	75-01-4	
Xylene (Total)	ND	ug/L	150	50		10/01/09 19:09	1330-20-7	
m&p-Xylene	ND	ug/L	100	50		10/01/09 19:09	1330-20-7	
o-Xylene	ND	ug/L	50.0	50		10/01/09 19:09	95-47-6	
Dibromofluoromethane (S)	100	%	75-125	50		10/01/09 19:09	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	75-125	50		10/01/09 19:09	17060-07-0	
Toluene-d8 (S)	96	%	75-125	50		10/01/09 19:09	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125	50		10/01/09 19:09	460-00-4	
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)							
Sulfide	ND	mg/L	5.0	1		10/02/09 09:30		
300.0 IC Anions	Analytical Method: EPA 300.0							
Nitrate as N	**11.0**	mg/L	2.0	5		09/30/09 17:59	14797-55-8	1M
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C							
Dissolved Organic Carbon	ND	mg/L	2.0	1		10/02/09 09:16		
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-02							
Sulfate	**168**	mg/L	25.0	10		10/07/09 16:49	14808-79-8	

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QUALITY CONTROL DATA

Project: CITY OF ROCHESTER
Pace Project No.: 10113554

QC Batch: WETA/4846 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Dissolved Organic Carbon
Associated Lab Samples: 10113554001, 10113554002, 10113554003, 10113554004

METHOD BLANK: 214574 Matrix: Water
Associated Lab Samples: 10113554001, 10113554002, 10113554003, 10113554004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	2.0	10/02/09 08:40	

LABORATORY CONTROL SAMPLE: 214575

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	100	100	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 214576 214577

Parameter	Units	10113554001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	ND	100	100	101	101	99	100	80-120	.5	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 214578 214579

Parameter	Units	10113598001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	ND	100	100	99.2	101	97	99	80-120	2	20	

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QUALITY CONTROL DATA

Project: CITY OF ROCHESTER
Pace Project No.: 10113554

QC Batch: WET/4658 Analysis Method: SM 4500-S F (2000)
QC Batch Method: SM 4500-S F (2000) Analysis Description: 4500S2F Sulfide, Iodometric
Associated Lab Samples: 10113554001, 10113554002, 10113554003, 10113554004

METHOD BLANK: 215866 Matrix: Water
Associated Lab Samples: 10113554001, 10113554002, 10113554003, 10113554004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	5.0	10/02/09 09:30	

LABORATORY CONTROL SAMPLE: 215867

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	52.4	51.6	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 215868 215869

Parameter	Units	10113598001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	52.4	52.4	46.4	49.2	88	94	80-120	6	20	

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QUALITY CONTROL DATA

Project: CITY OF ROCHESTER
Pace Project No.: 10113554

QC Batch: AIR/9192 Analysis Method: RSK 175
QC Batch Method: RSK 175 Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 10113554001, 10113554002

METHOD BLANK: 691786 Matrix: Water
Associated Lab Samples: 10113554001, 10113554002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	ND	10.0	10/05/09 08:50	

LABORATORY CONTROL SAMPLE & LCSD: 691787 691788

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	60.7	63.3	62.7	104	103	70-130	1	30	

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QUALITY CONTROL DATA

Project: CITY OF ROCHESTER
Pace Project No.: 10113554

QC Batch: WETA/4836 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 10113554001, 10113554002, 10113554003, 10113554004

METHOD BLANK: 214200 Matrix: Water
Associated Lab Samples: 10113554001, 10113554002, 10113554003, 10113554004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate as N	mg/L	ND	0.40	09/30/09 14:46	

LABORATORY CONTROL SAMPLE: 214201

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	2	2.1	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 214202 214203

Parameter	Units	4023206004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	<0.20	2	2	2.0	2.0	102	102	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 214204 214205

Parameter	Units	4023206005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	<0.20	2	2	2.0	2.1	102	104	90-110	1	20	

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QUALITY CONTROL DATA

Project: CITY OF ROCHESTER
Pace Project No.: 10113554

QC Batch: MSV/13158 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 10113554001, 10113554002, 10113554003, 10113554004

METHOD BLANK: 690214 Matrix: Water
Associated Lab Samples: 10113554001, 10113554002, 10113554003, 10113554004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	10/01/09 15:27	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/01/09 15:27	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/01/09 15:27	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/01/09 15:27	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	10/01/09 15:27	
1,1-Dichloroethane	ug/L	ND	1.0	10/01/09 15:27	
1,1-Dichloroethene	ug/L	ND	1.0	10/01/09 15:27	
1,1-Dichloropropene	ug/L	ND	1.0	10/01/09 15:27	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	10/01/09 15:27	
1,2,3-Trichloropropane	ug/L	ND	1.0	10/01/09 15:27	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	10/01/09 15:27	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	10/01/09 15:27	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	10/01/09 15:27	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/01/09 15:27	
1,2-Dichlorobenzene	ug/L	ND	1.0	10/01/09 15:27	
1,2-Dichloroethane	ug/L	ND	1.0	10/01/09 15:27	
1,2-Dichloropropane	ug/L	ND	1.0	10/01/09 15:27	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	10/01/09 15:27	
1,3-Dichlorobenzene	ug/L	ND	1.0	10/01/09 15:27	
1,3-Dichloropropane	ug/L	ND	1.0	10/01/09 15:27	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/01/09 15:27	
2,2-Dichloropropane	ug/L	ND	1.0	10/01/09 15:27	
2-Butanone (MEK)	ug/L	ND	4.0	10/01/09 15:27	
2-Chlorotoluene	ug/L	ND	1.0	10/01/09 15:27	
4-Chlorotoluene	ug/L	ND	1.0	10/01/09 15:27	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	10/01/09 15:27	
Acetone	ug/L	ND	10.0	10/01/09 15:27	
Allyl chloride	ug/L	ND	4.0	10/01/09 15:27	
Benzene	ug/L	ND	1.0	10/01/09 15:27	
Bromobenzene	ug/L	ND	1.0	10/01/09 15:27	
Bromochloromethane	ug/L	ND	1.0	10/01/09 15:27	
Bromodichloromethane	ug/L	ND	1.0	10/01/09 15:27	
Bromoform	ug/L	ND	8.0	10/01/09 15:27	
Bromomethane	ug/L	ND	4.0	10/01/09 15:27	
Carbon tetrachloride	ug/L	ND	1.0	10/01/09 15:27	
Chlorobenzene	ug/L	ND	1.0	10/01/09 15:27	
Chloroethane	ug/L	ND	1.0	10/01/09 15:27	
Chloroform	ug/L	ND	1.0	10/01/09 15:27	
Chloromethane	ug/L	ND	4.0	10/01/09 15:27	
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/01/09 15:27	
cis-1,3-Dichloropropene	ug/L	ND	4.0	10/01/09 15:27	
Dibromochloromethane	ug/L	ND	1.0	10/01/09 15:27	
Dibromomethane	ug/L	ND	1.0	10/01/09 15:27	

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QUALITY CONTROL DATA

Project: CITY OF ROCHESTER
Pace Project No.: 10113554

METHOD BLANK: 690214 Matrix: Water

Associated Lab Samples: 10113554001, 10113554002, 10113554003, 10113554004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	10/01/09 15:27	
Dichlorofluoromethane	ug/L	ND	1.0	10/01/09 15:27	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	10/01/09 15:27	
Ethylbenzene	ug/L	ND	1.0	10/01/09 15:27	
Hexachloro-1,3-butadiene	ug/L	ND	4.0	10/01/09 15:27	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	10/01/09 15:27	
m&p-Xylene	ug/L	ND	2.0	10/01/09 15:27	
Methyl-tert-butyl ether	ug/L	ND	1.0	10/01/09 15:27	
Methylene Chloride	ug/L	ND	4.0	10/01/09 15:27	
n-Butylbenzene	ug/L	ND	1.0	10/01/09 15:27	
n-Propylbenzene	ug/L	ND	1.0	10/01/09 15:27	
Naphthalene	ug/L	ND	4.0	10/01/09 15:27	
o-Xylene	ug/L	ND	1.0	10/01/09 15:27	
p-Isopropyltoluene	ug/L	ND	1.0	10/01/09 15:27	
sec-Butylbenzene	ug/L	ND	1.0	10/01/09 15:27	
Styrene	ug/L	ND	1.0	10/01/09 15:27	
tert-Butylbenzene	ug/L	ND	1.0	10/01/09 15:27	
Tetrachloroethene	ug/L	ND	1.0	10/01/09 15:27	
Tetrahydrofuran	ug/L	ND	10.0	10/01/09 15:27	
Toluene	ug/L	ND	1.0	10/01/09 15:27	
trans-1,2-Dichloroethene	ug/L	ND	1.0	10/01/09 15:27	
trans-1,3-Dichloropropene	ug/L	ND	4.0	10/01/09 15:27	
Trichloroethene	ug/L	ND	1.0	10/01/09 15:27	
Trichlorofluoromethane	ug/L	ND	1.0	10/01/09 15:27	
Vinyl chloride	ug/L	ND	0.40	10/01/09 15:27	
Xylene (Total)	ug/L	ND	3.0	10/01/09 15:27	
1,2-Dichloroethane-d4 (S)	%	105	75-125	10/01/09 15:27	
4-Bromofluorobenzene (S)	%	99	75-125	10/01/09 15:27	
Dibromofluoromethane (S)	%	104	75-125	10/01/09 15:27	
Toluene-d8 (S)	%	98	75-125	10/01/09 15:27	

LABORATORY CONTROL SAMPLE: 690215

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.6	97	75-125	
1,1,1-Trichloroethane	ug/L	50	46.1	92	75-125	
1,1,2,2-Tetrachloroethane	ug/L	50	50.6	101	75-125	
1,1,2-Trichloroethane	ug/L	50	49.2	98	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	40.7	81	70-138	
1,1-Dichloroethane	ug/L	50	46.5	93	75-125	
1,1-Dichloroethene	ug/L	50	45.0	90	69-129	
1,1-Dichloropropene	ug/L	50	46.0	92	75-126	
1,2,3-Trichlorobenzene	ug/L	50	49.3	99	75-125	
1,2,3-Trichloropropane	ug/L	50	48.9	98	72-126	
1,2,4-Trichlorobenzene	ug/L	50	50.0	100	75-125	

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QUALITY CONTROL DATA

Project: CITY OF ROCHESTER
Pace Project No.: 10113554

LABORATORY CONTROL SAMPLE: 690215

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	50	49.3	99	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	51.8	104	67-125	
1,2-Dibromoethane (EDB)	ug/L	50	50.8	102	75-125	
1,2-Dichlorobenzene	ug/L	50	49.0	98	75-125	
1,2-Dichloroethane	ug/L	50	48.6	97	75-125	
1,2-Dichloropropane	ug/L	50	47.4	95	75-125	
1,3,5-Trimethylbenzene	ug/L	50	48.4	97	75-125	
1,3-Dichlorobenzene	ug/L	50	47.3	95	75-125	
1,3-Dichloropropane	ug/L	50	50.9	102	75-125	
1,4-Dichlorobenzene	ug/L	50	47.5	95	75-125	
2,2-Dichloropropane	ug/L	50	50.4	101	48-150	
2-Butanone (MEK)	ug/L	50	54.9	110	51-134	
2-Chlorotoluene	ug/L	50	49.8	100	75-125	
4-Chlorotoluene	ug/L	50	48.5	97	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	50	56.2	112	60-125	
Acetone	ug/L	125	151	121	38-125	
Allyl chloride	ug/L	50	43.3	87	64-137	
Benzene	ug/L	50	48.2	96	75-125	
Bromobenzene	ug/L	50	47.2	94	75-125	
Bromochloromethane	ug/L	50	44.0	88	75-125	
Bromodichloromethane	ug/L	50	47.2	94	75-125	
Bromoform	ug/L	100	107	107	68-125	
Bromomethane	ug/L	50	51.0	102	47-129	
Carbon tetrachloride	ug/L	50	45.2	90	59-133	
Chlorobenzene	ug/L	50	47.7	95	75-125	
Chloroethane	ug/L	50	40.3	81	73-132	
Chloroform	ug/L	50	46.1	92	75-125	
Chloromethane	ug/L	50	40.1	80	72-125	
cis-1,2-Dichloroethene	ug/L	50	46.5	93	75-125	
cis-1,3-Dichloropropene	ug/L	50	50.4	101	75-125	
Dibromochloromethane	ug/L	50	50.8	102	75-125	
Dibromomethane	ug/L	50	44.4	89	75-125	
Dichlorodifluoromethane	ug/L	50	42.3	85	69-134	
Dichlorofluoromethane	ug/L	50	44.4	89	70-125	
Diethyl ether (Ethyl ether)	ug/L	50	49.0	98	71-125	
Ethylbenzene	ug/L	50	48.7	97	75-125	
Hexachloro-1,3-butadiene	ug/L	50	44.8	90	75-137	
Isopropylbenzene (Cumene)	ug/L	50	49.8	100	75-125	
m&p-Xylene	ug/L	100	102	102	75-125	
Methyl-tert-butyl ether	ug/L	50	51.5	103	75-125	
Methylene Chloride	ug/L	50	44.7	89	75-125	
n-Butylbenzene	ug/L	50	48.1	96	75-125	
n-Propylbenzene	ug/L	50	49.7	99	75-125	
Naphthalene	ug/L	50	56.0	112	72-125	
o-Xylene	ug/L	50	51.0	102	75-125	
p-Isopropyltoluene	ug/L	50	46.9	94	75-125	
sec-Butylbenzene	ug/L	50	47.7	95	75-125	
Styrene	ug/L	50	51.5	103	75-125	

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QUALITY CONTROL DATA

Project: CITY OF ROCHESTER
Pace Project No.: 10113554

LABORATORY CONTROL SAMPLE: 690215

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	49.0	98	75-125	
Tetrachloroethene	ug/L	50	45.1	90	74-125	
Tetrahydrofuran	ug/L	500	542	108	65-125	
Toluene	ug/L	50	47.6	95	75-125	
trans-1,2-Dichloroethene	ug/L	50	45.1	90	74-125	
trans-1,3-Dichloropropene	ug/L	50	53.0	106	75-125	
Trichloroethene	ug/L	50	45.5	91	75-125	
Trichlorofluoromethane	ug/L	50	43.9	88	73-134	
Vinyl chloride	ug/L	50	42.0	84	75-126	
Xylene (Total)	ug/L	150	153	102	75-125	
1,2-Dichloroethane-d4 (S)	%			104	75-125	
4-Bromofluorobenzene (S)	%			101	75-125	
Dibromofluoromethane (S)	%			98	75-125	
Toluene-d8 (S)	%			104	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 690216 690217

Parameter	Units	10113704002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20.6	21.7	103	108	71-125	5	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	22.8	22.4	114	112	75-125	2	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.4	22.0	102	110	75-126	7	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	20.0	20.3	100	102	75-125	2	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	20	25.1	23.9	126	120	70-150	5	30	
1,1-Dichloroethane	ug/L	ND	20	20	21.3	21.3	107	106	75-125	0	30	
1,1-Dichloroethene	ug/L	ND	20	20	23.1	23.5	115	118	64-142	2	30	
1,1-Dichloropropene	ug/L	ND	20	20	22.8	22.5	114	112	75-125	1	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	21.1	21.6	105	108	75-125	2	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	20.4	20.9	102	105	72-127	2	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	22.4	21.9	112	109	75-125	2	30	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	22.0	23.1	110	115	75-125	5	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	19.8	21.0	99	105	65-125	6	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	19.8	20.2	99	101	75-125	2	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	20.8	21.9	104	109	75-125	5	30	
1,2-Dichloroethane	ug/L	ND	20	20	20.0	20.8	100	104	75-125	4	30	
1,2-Dichloropropane	ug/L	ND	20	20	20.3	21.0	101	105	75-125	3	30	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	22.1	23.1	110	116	75-127	5	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	20.9	21.8	104	109	75-125	5	30	
1,3-Dichloropropane	ug/L	ND	20	20	20.5	21.0	103	105	75-125	2	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	20.8	21.5	104	107	75-125	3	30	
2,2-Dichloropropane	ug/L	ND	20	20	24.4	24.5	122	122	48-150	1	30	
2-Butanone (MEK)	ug/L	ND	20	20	20.9	20.0	105	100	51-134	5	30	
2-Chlorotoluene	ug/L	ND	20	20	22.3	22.9	111	114	75-125	3	30	
4-Chlorotoluene	ug/L	ND	20	20	21.8	22.6	109	113	68-127	3	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	21.3	21.7	107	108	60-135	2	30	
Acetone	ug/L	ND	50	50	44.0	47.0	88	94	30-125	7	30	
Allyl chloride	ug/L	ND	20	20	20.4	20.7	102	104	40-137	1	30	

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QUALITY CONTROL DATA

Project: CITY OF ROCHESTER
Pace Project No.: 10113554

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 690216 690217

Parameter	Units	10113704002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	20	20	21.9	22.3	110	112	75-125	2	30	
Bromobenzene	ug/L	ND	20	20	20.2	21.7	101	109	75-125	7	30	
Bromochloromethane	ug/L	ND	20	20	17.8	17.9	89	89	75-125	0	30	
Bromodichloromethane	ug/L	ND	20	20	20.0	20.7	100	104	72-125	3	30	
Bromoform	ug/L	ND	40	40	41.0	43.0	102	108	51-125	5	30	
Bromomethane	ug/L	ND	20	20	22.9	21.3	115	107	47-130	7	30	
Carbon tetrachloride	ug/L	ND	20	20	22.8	22.9	114	114	61-133	0	30	
Chlorobenzene	ug/L	ND	20	20	21.0	21.4	105	107	75-125	2	30	
Chloroethane	ug/L	ND	20	20	19.9	18.7	100	93	75-132	7	30	
Chloroform	ug/L	ND	20	20	20.7	20.7	103	104	75-125	0	30	
Chloromethane	ug/L	ND	20	20	19.4	18.3	97	91	68-132	6	30	
cis-1,2-Dichloroethene	ug/L	12.5	20	20	33.1	33.9	103	107	75-125	2	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	21.0	21.4	105	107	63-125	2	30	
Dibromochloromethane	ug/L	ND	20	20	20.3	20.8	102	104	62-125	2	30	
Dibromomethane	ug/L	ND	20	20	19.1	19.2	96	96	75-125	0	30	
Dichlorodifluoromethane	ug/L	ND	20	20	26.0	23.0	130	115	65-150	12	30	
Dichlorofluoromethane	ug/L	ND	20	20	21.6	21.5	108	108	68-127	0	30	
Diethyl ether (Ethyl ether)	ug/L	ND	20	20	20.5	20.2	103	101	71-125	2	30	
Ethylbenzene	ug/L	ND	20	20	22.2	22.7	111	114	75-125	2	30	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	23.2	22.7	116	114	75-147	2	30	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	23.1	23.7	115	119	75-125	3	30	
m&p-Xylene	ug/L	ND	40	40	46.2	46.9	115	117	67-125	1	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	20.7	21.0	104	105	75-125	1	30	
Methylene Chloride	ug/L	ND	20	20	19.5	19.5	98	97	75-125	0	30	
n-Butylbenzene	ug/L	ND	20	20	23.0	24.5	115	122	70-135	6	30	
n-Propylbenzene	ug/L	ND	20	20	21.9	22.9	109	115	70-131	5	30	
Naphthalene	ug/L	ND	20	20	22.7	23.5	114	117	66-127	3	30	
o-Xylene	ug/L	ND	20	20	22.5	22.4	112	112	72-125	0	30	
p-Isopropyltoluene	ug/L	ND	20	20	22.0	23.3	110	116	71-126	6	30	
sec-Butylbenzene	ug/L	ND	20	20	23.3	24.1	117	121	75-127	3	30	
Styrene	ug/L	ND	20	20	22.0	22.5	110	112	30-134	2	30	
tert-Butylbenzene	ug/L	ND	20	20	22.8	23.3	114	117	75-125	2	30	
Tetrachloroethene	ug/L	33.5	20	20	52.9	53.8	97	101	74-125	2	30	
Tetrahydrofuran	ug/L	ND	200	200	208	214	104	107	65-125	2	30	
Toluene	ug/L	ND	20	20	21.6	22.0	108	110	75-125	2	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	22.2	21.5	111	107	72-125	3	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	21.8	21.8	109	109	63-125	0	30	
Trichloroethene	ug/L	6.0	20	20	26.9	27.4	104	107	58-127	2	30	
Trichlorofluoromethane	ug/L	ND	20	20	24.3	22.7	122	113	73-150	7	30	
Vinyl chloride	ug/L	ND	20	20	22.5	21.6	113	108	75-134	4	30	
Xylene (Total)	ug/L	ND	60	60	68.6	69.3	114	115	75-125	1	30	
1,2-Dichloroethane-d4 (S)	%						102	100	75-125			
4-Bromofluorobenzene (S)	%						105	104	75-125			
Dibromofluoromethane (S)	%						97	102	75-125			
Toluene-d8 (S)	%						102	101	75-125			

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QUALITY CONTROL DATA

Project: CITY OF ROCHESTER
Pace Project No.: 10113554

QC Batch: WETA/8497 Analysis Method: ASTM D516-02
QC Batch Method: ASTM D516-02 Analysis Description: ASTM D516-9002 Sulfate Water
Associated Lab Samples: 10113554001, 10113554002, 10113554003, 10113554004

METHOD BLANK: 693209 Matrix: Water
Associated Lab Samples: 10113554001, 10113554002, 10113554003, 10113554004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	2.5	10/07/09 16:01	

LABORATORY CONTROL SAMPLE: 693210

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	7.5	7.0	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 693211 693212

Parameter	Units	10113141002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	20.1	20	20	35.7	36.0	78	79	80-120	1	30	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 693216 693217

Parameter	Units	10113704002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	45.4	20	20	58.0	59.8	63	72	80-120	3	30	M0

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QUALITY CONTROL DATA

Project: CITY OF ROCHESTER
Pace Project No.: 10113554

QC Batch: MPRP/17563 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 MET Dissolved
Associated Lab Samples: 10113554001, 10113554002, 10113554003, 10113554004

METHOD BLANK: 690643 Matrix: Water
Associated Lab Samples: 10113554001, 10113554002, 10113554003, 10113554004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	ND	50.0	10/04/09 09:10	

LABORATORY CONTROL SAMPLE: 690644

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	10000	8620	86	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 690645 690646

Parameter	Units	10113331001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Dissolved	ug/L	184	10000	10000	9410	9550	92	94	70-130	2	30	

MATRIX SPIKE SAMPLE: 690647

Parameter	Units	10113784006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	ND	10000	9170	92	70-130	

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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: CITY OF ROCHESTER
Pace Project No.: 10113554

QC Batch: AIR/9196 Analysis Method: RSK 175
QC Batch Method: RSK 175 Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 10113554003, 10113554004

METHOD BLANK: 692091 Matrix: Water
Associated Lab Samples: 10113554003, 10113554004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	ND	10.0	10/05/09 19:02	

LABORATORY CONTROL SAMPLE & LCSD: 692092 692093

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	60.7	62.7	55.1	103	91	70-130	13	30	

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(612)607-1700

QUALIFIERS

Project: CITY OF ROCHESTER
Pace Project No.: 10113554

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

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

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay
PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

1M	Reported analysis conducted outside the recognized method holding time. Initial run was analyzed within hold time, but sample needed dilution.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
pH	Post-analysis pH measurement indicates insufficient VOA sample preservation.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CITY OF ROCHESTER
Pace Project No.: 10113554

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10113554001	**DPE-1**	EPA 300.0	WETA/4836		
10113554002	**DPE-2**	EPA 300.0	WETA/4836		
10113554003	**DPE-3**	EPA 300.0	WETA/4836		
10113554004	**DPE-4**	EPA 300.0	WETA/4836		
10113554001	**DPE-1**	SM 5310C	WETA/4846		
10113554002	**DPE-2**	SM 5310C	WETA/4846		
10113554003	**DPE-3**	SM 5310C	WETA/4846		
10113554004	**DPE-4**	SM 5310C	WETA/4846		
10113554001	**DPE-1**	SM 4500-S F (2000)	WET/4658		
10113554002	**DPE-2**	SM 4500-S F (2000)	WET/4658		
10113554003	**DPE-3**	SM 4500-S F (2000)	WET/4658		
10113554004	**DPE-4**	SM 4500-S F (2000)	WET/4658		
10113554001	**DPE-1**	EPA 8260	MSV/13158		
10113554002	**DPE-2**	EPA 8260	MSV/13158		
10113554003	**DPE-3**	EPA 8260	MSV/13158		
10113554004	**DPE-4**	EPA 8260	MSV/13158		
10113554001	**DPE-1**	EPA 200.7	MPRP/17563	EPA 200.7	ICP/7964
10113554002	**DPE-2**	EPA 200.7	MPRP/17563	EPA 200.7	ICP/7964
10113554003	**DPE-3**	EPA 200.7	MPRP/17563	EPA 200.7	ICP/7964
10113554004	**DPE-4**	EPA 200.7	MPRP/17563	EPA 200.7	ICP/7964
10113554001	**DPE-1**	RSK 175	AIR/9192		
10113554002	**DPE-2**	RSK 175	AIR/9192		
10113554003	**DPE-3**	RSK 175	AIR/9196		
10113554004	**DPE-4**	RSK 175	AIR/9196		
10113554001	**DPE-1**	ASTM D516-02	WETA/8497		
10113554002	**DPE-2**	ASTM D516-02	WETA/8497		
10113554003	**DPE-3**	ASTM D516-02	WETA/8497		
10113554004	**DPE-4**	ASTM D516-02	WETA/8497		

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CHAIN-OF-CUSTODY / Analytical Request Document

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

MPLS 10113554

Page: of

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Section A Required Client Information:

- Company: Landmark
- Address:
- Email To:
- Phone: Fax:
- Requested Due Date/TAT:

Section B Required Project Information:

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

Section C Invoice Information:

- Attention:
- Company Name:
- Address:
- Pace Quote Reference:
- Pace Project Manager:
- Pace Profile #:

REGULATORY AGENCY

NPDES / GROUND WATER / DRINKING WATER / UST / RCRA / OTHER

Site Location STATE:

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

Preservatives: Unpreserved, H_2SO_4, HNO_3, HCl, NaOH, $Na_2S_2O_3$, Methanol, Other

Analysis Test: Methane; VOCs 8260; Sulfate; ~~metals~~ Fe

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE	Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Methane	VOCs 8260	Sulfate	Fe	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	DPE-1			9/28/09	12:52				8	✓	✓	✓	✓		001
2	DPE-2				14:22				8	✓	✓	✓	✓		002
3	DPE-3				15:25				8	✓	✓	✓	✓		003
4	DPE-4				16:13				8	✓	✓	✓	✓		004
5															
6															
7															
8															
9															
10															
11															
12															

Filter @ LAB

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
				[signature] / Pace	9/29/09	1000	0.8	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Eric Gabrielson

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY):

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Sample Condition Upon Receipt

Pace Analytical

Client Name: Landmark **Project #** 60113554

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

Tracking #: 8582 0749 0522

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

Optional: Proj. Due Date: Proj. Name:

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

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

Cooler Temperature 0.8 **Biological Tissue is Frozen:** Yes No

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

Date and initials of person examining contents: 9/29/09 DAS

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 / 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: C. Dust **Date:** 9/29/09

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

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

Chain of Custody

Pace Analytical®
www.pacelabs.com

Workorder: 10113554 **Workorder Name:** CITY OF ROCHESTER **Owner Received Date:** 9/29/2009 **Results Requested By:** 10/6/2009

Report To	Subcontract To
Carolynne Trout Pace Analytical Services, Inc. 1700 Elm Street, Suite 200 Minneapolis, MN 55414 Phone (612)607-1700 Fax (612)607-6444	Pace Analytical Green Bay 1241 Bellevue Street Suite 9 Green Bay, WI 54302 Phone (920)469-2436

	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: H2SO4	Unpreserved	Other	Requested Analysis: Nitrate	Doc Chlorides	Sulfide	LAB USE ONLY
1	DPE-1 001	9/28/2009 12:52	10113554001	Water	1	1	1	X	X	X	
2	DPE-2 002	9/28/2009 14:22	10113554002	Water	1	1	1	X	X	X	
3	DPE-3 003	9/28/2009 15:25	10113554003	Water	1	1	1	X	X	X	
4	DPE-4 004	9/28/2009 10:13	10113554004	Water	1	1	1	X	X	X	
5											

1-500ml 1-250ml

Transfers	Released By	Date/Time	Received By	Date/Time
1	FedEx	9/29/09 0935		9/29/09 0935
2				
3				

Comments: 1C

4023236

Cooler Temperature on Receipt ____ °C	Custody Seal Y or N	Received on Ice Y or N	Samples Intact Y or N

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CHAIN-OF-CUSTODY / Analytical Request Document

GB 4023236

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

Page: of

1269781

Section A
Required Client Information:

Company:	Landmark
Address:	
Email To:	
Phone:	Fax:
Requested Due Date/TAT:	

Section B
Required Project Information:

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

Section C
Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER ______

Site Location
STATE: ______

Section D
Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes
MATRIX / CODE

Matrix	Code
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	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	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	glass unpre	Zn acetate	Plastic unpreserved	Nitrates	Sulfide	DOC							Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	DPE-1			12/28/06	12:52				3										✓	✓	✓	✓	✓	✓								Filter @ LAB
2	DPE-2				14:22				3										✓	✓	✓	✓	✓	✓								
3	DPE-3				15:23				3										✓	✓	✓	✓	✓	✓								
4	DPE-4				16:13				3										✓	✓	✓	✓	✓	✓								
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Eric Gabrielson

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY):

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

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical

Sample Condition Upon Receipt

Client Name: Pace Project # 40233236

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

Tracking #: _____

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

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

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

Thermometer Used VB

Cooler Temperature 10C

Type of Ice: (Wet) Blue Dry None

Biological Tissue is Frozen: ☐ yes ☐ no

☐ Samples on ice, cooling process has begun

Temp Blank Present: ☑ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

Person examining contents:
Date: 09/29/09
Initials: _____

Temp should be above freezing to 6°C for all sample except Biota.
Biota Samples should be received ≤ 0°C.

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed: VB — 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: _____ **Date:** 9/29/09

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

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

November 19, 2009

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

RE: Project: CRC Rochester
Pace Project No.: 10113598

Dear Mr. Skramstad:
Enclosed are the analytical results for sample(s) received by the laboratory on September 29, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

This report was revised to correct the sample collection date per information provided by Landmark Environmental on 11/19/09.

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: CRC Rochester
Pace Project No.: 10113598

Minnesota Certification IDs

1700 Elm Street SE, Suite 200 Minneapolis, MN 55414
Wisconsin Certification #: 999407970
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
Minnesota Certification #: 027-053-137
Montana Certification #: MT CERT0092
New Jersey Certification #: MN-002
Washington Certification #: C754
Tennessee Certification #: 02818
Pennsylvania Certification #: 68-00563
Oregon Certification #: MN200001
North Dakota Certification #: R-036
North Carolina Certification #: 530
New York Certification #: 11647

Green Bay Certification IDs

North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
1241 Bellevue Street Green Bay, WI 54302
California Certification #: 09268CA
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11887
New York Certification #: 11888
Florida/NELAP Certification #: E87948

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

SAMPLE SUMMARY

Project: CRC Rochester
Pace Project No.: 10113598

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10113598001	**DPE-5**	Water	09/28/09 04:00	09/29/09 16:18
10113598002	**DPE-6**	Water	09/28/09 04:30	09/29/09 16:18
10113598003	**DPE-7**	Water	09/28/09 05:00	09/29/09 16:18
10113598004	**DPE-8**	Water	09/28/09 05:30	09/29/09 16:18
10113598005	**MW-19**	Water	09/28/09 11:40	09/29/09 16:18

Pace Analytical Services, Inc.
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Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: CRC Rochester
Pace Project No.: 10113598

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10113598001	**DPE-5**	ASTM D516-02	ACH	1	PASI-M
		EPA 200.7	TEM	1	PASI-M
		EPA 300.0	DDY	1	PASI-G
		EPA 8260	CNC	73	PASI-M
		RSK 175	CJR	1	PASI-M
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	JMM	1	PASI-G
10113598002	**DPE-6**	ASTM D516-02	ACH	1	PASI-M
		EPA 200.7	TEM	1	PASI-M
		EPA 300.0	DDY	1	PASI-G
		EPA 8260	CNC	73	PASI-M
		RSK 175	CJR	1	PASI-M
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	JMM	1	PASI-G
10113598003	**DPE-7**	ASTM D516-02	ACH	1	PASI-M
		EPA 200.7	TEM	1	PASI-M
		EPA 300.0	DDY	1	PASI-G
		EPA 8260	CNC	73	PASI-M
		RSK 175	CJR	1	PASI-M
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	JMM	1	PASI-G
10113598004	**DPE-8**	ASTM D516-02	ACH	1	PASI-M
		EPA 200.7	TEM	1	PASI-M
		EPA 300.0	DDY	1	PASI-G
		EPA 8260	CNC	73	PASI-M
		RSK 175	CJR	1	PASI-M
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	JMM	1	PASI-G
10113598005	**MW-19**	ASTM D516-02	ACH	1	PASI-M
		EPA 200.7	TEM	1	PASI-M
		EPA 300.0	DDY	1	PASI-G
		EPA 8260	CNC	73	PASI-M
		RSK 175	CJR	1	PASI-M
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	JMM	1	PASI-G

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

ANALYTICAL RESULTS

Project: CRC Rochester
Pace Project No.: 10113598

Sample: DPE-5 **Lab ID: 10113598001** Collected: 09/28/09 04:00 Received: 09/29/09 16:18 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Methane	ND	ug/L	10.0	1		10/05/09 20:19	74-82-8	
200.7 MET ICP, Lab Filtered	Analytical Method: EPA 200.7		Preparation Method: EPA 200.7					
Iron, Dissolved	ND	ug/L	50.0	1	10/02/09 17:56	10/04/09 10:36	7439-89-6	
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	10		10/01/09 22:51	67-64-1	
Allyl chloride	ND	ug/L	40.0	10		10/01/09 22:51	107-05-1	
Benzene	ND	ug/L	10.0	10		10/01/09 22:51	71-43-2	
Bromobenzene	ND	ug/L	10.0	10		10/01/09 22:51	108-86-1	
Bromochloromethane	ND	ug/L	10.0	10		10/01/09 22:51	74-97-5	
Bromodichloromethane	ND	ug/L	10.0	10		10/01/09 22:51	75-27-4	
Bromoform	ND	ug/L	80.0	10		10/01/09 22:51	75-25-2	
Bromomethane	ND	ug/L	40.0	10		10/01/09 22:51	74-83-9	
2-Butanone (MEK)	ND	ug/L	40.0	10		10/01/09 22:51	78-93-3	
n-Butylbenzene	ND	ug/L	10.0	10		10/01/09 22:51	104-51-8	
sec-Butylbenzene	ND	ug/L	10.0	10		10/01/09 22:51	135-98-8	
tert-Butylbenzene	ND	ug/L	10.0	10		10/01/09 22:51	98-06-6	
Carbon tetrachloride	ND	ug/L	10.0	10		10/01/09 22:51	56-23-5	
Chlorobenzene	ND	ug/L	10.0	10		10/01/09 22:51	108-90-7	
Chloroethane	ND	ug/L	10.0	10		10/01/09 22:51	75-00-3	
Chloroform	ND	ug/L	10.0	10		10/01/09 22:51	67-66-3	
Chloromethane	ND	ug/L	40.0	10		10/01/09 22:51	74-87-3	
2-Chlorotoluene	ND	ug/L	10.0	10		10/01/09 22:51	95-49-8	
4-Chlorotoluene	ND	ug/L	10.0	10		10/01/09 22:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	40.0	10		10/01/09 22:51	96-12-8	
Dibromochloromethane	ND	ug/L	10.0	10		10/01/09 22:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		10/01/09 22:51	106-93-4	
Dibromomethane	ND	ug/L	10.0	10		10/01/09 22:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	10.0	10		10/01/09 22:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	10		10/01/09 22:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	10		10/01/09 22:51	106-46-7	
Dichlorodifluoromethane	ND	ug/L	10.0	10		10/01/09 22:51	75-71-8	
1,1-Dichloroethane	ND	ug/L	10.0	10		10/01/09 22:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	10.0	10		10/01/09 22:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	10.0	10		10/01/09 22:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	10.0	10		10/01/09 22:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	10.0	10		10/01/09 22:51	156-60-5	
Dichlorofluoromethane	ND	ug/L	10.0	10		10/01/09 22:51	75-43-4	
1,2-Dichloropropane	ND	ug/L	10.0	10		10/01/09 22:51	78-87-5	
1,3-Dichloropropane	ND	ug/L	10.0	10		10/01/09 22:51	142-28-9	
2,2-Dichloropropane	ND	ug/L	10.0	10		10/01/09 22:51	594-20-7	
1,1-Dichloropropene	ND	ug/L	10.0	10		10/01/09 22:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	40.0	10		10/01/09 22:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	40.0	10		10/01/09 22:51	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	40.0	10		10/01/09 22:51	60-29-7	

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ANALYTICAL RESULTS

Project: CRC Rochester
Pace Project No.: 10113598

Sample: DPE-5 **Lab ID: 10113598001** Collected: 09/28/09 04:00 Received: 09/29/09 16:18 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Ethylbenzene	ND	ug/L	10.0	10		10/01/09 22:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	40.0	10		10/01/09 22:51	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	10.0	10		10/01/09 22:51	98-82-8	
p-Isopropyltoluene	ND	ug/L	10.0	10		10/01/09 22:51	99-87-6	
Methylene Chloride	ND	ug/L	40.0	10		10/01/09 22:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	40.0	10		10/01/09 22:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	10		10/01/09 22:51	1634-04-4	
Naphthalene	ND	ug/L	40.0	10		10/01/09 22:51	91-20-3	
n-Propylbenzene	ND	ug/L	10.0	10		10/01/09 22:51	103-65-1	
Styrene	ND	ug/L	10.0	10		10/01/09 22:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0	10		10/01/09 22:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		10/01/09 22:51	79-34-5	
Tetrachloroethene	**875**	ug/L	10.0	10		10/01/09 22:51	127-18-4	
Tetrahydrofuran	ND	ug/L	100	10		10/01/09 22:51	109-99-9	
Toluene	ND	ug/L	10.0	10		10/01/09 22:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	10		10/01/09 22:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	10		10/01/09 22:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	10.0	10		10/01/09 22:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	10.0	10		10/01/09 22:51	79-00-5	
Trichloroethene	ND	ug/L	10.0	10		10/01/09 22:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	10		10/01/09 22:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	10.0	10		10/01/09 22:51	96-18-4	
1,1,2-Trichlorotrifluoroethane	**37.9**	ug/L	10.0	10		10/01/09 22:51	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	10.0	10		10/01/09 22:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	10.0	10		10/01/09 22:51	108-67-8	
Vinyl chloride	ND	ug/L	4.0	10		10/01/09 22:51	75-01-4	
Xylene (Total)	ND	ug/L	30.0	10		10/01/09 22:51	1330-20-7	
m&p-Xylene	ND	ug/L	20.0	10		10/01/09 22:51	1330-20-7	
o-Xylene	ND	ug/L	10.0	10		10/01/09 22:51	95-47-6	
Dibromofluoromethane (S)	106	%	75-125	10		10/01/09 22:51	1868-53-7	
1,2-Dichloroethane-d4 (S)	112	%	75-125	10		10/01/09 22:51	17060-07-0	
Toluene-d8 (S)	96	%	75-125	10		10/01/09 22:51	2037-26-5	
4-Bromofluorobenzene (S)	97	%	75-125	10		10/01/09 22:51	460-00-4	
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)							
Sulfide	ND	mg/L	5.0	1		10/02/09 09:30		
300.0 IC Anions	Analytical Method: EPA 300.0							
Nitrate as N	**5.5**	mg/L	0.40	1		09/30/09 19:24	14797-55-8	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C							
Dissolved Organic Carbon	ND	mg/L	2.0	1		10/02/09 09:20		
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-02							
Sulfate	**281**	mg/L	25.0	10		10/07/09 16:49	14808-79-8	

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ANALYTICAL RESULTS

Project: CRC Rochester
Pace Project No.: 10113598

Sample: DPE-6 **Lab ID: 10113598002** Collected: 09/28/09 04:30 Received: 09/29/09 16:18 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Methane	ND	ug/L	10.0	1		10/05/09 20:45	74-82-8	
200.7 MET ICP, Lab Filtered	Analytical Method: EPA 200.7		Preparation Method: EPA 200.7					
Iron, Dissolved	ND	ug/L	50.0	1	10/02/09 17:56	10/04/09 10:43	7439-89-6	
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		10/02/09 17:52	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		10/02/09 17:52	107-05-1	
Benzene	ND	ug/L	1.0	1		10/02/09 17:52	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/02/09 17:52	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/02/09 17:52	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/02/09 17:52	75-27-4	
Bromoform	ND	ug/L	8.0	1		10/02/09 17:52	75-25-2	
Bromomethane	ND	ug/L	4.0	1		10/02/09 17:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		10/02/09 17:52	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		10/02/09 17:52	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		10/02/09 17:52	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/02/09 17:52	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		10/02/09 17:52	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/02/09 17:52	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/02/09 17:52	75-00-3	
Chloroform	ND	ug/L	1.0	1		10/02/09 17:52	67-66-3	
Chloromethane	ND	ug/L	4.0	1		10/02/09 17:52	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		10/02/09 17:52	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/02/09 17:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		10/02/09 17:52	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/02/09 17:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/02/09 17:52	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		10/02/09 17:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/02/09 17:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/02/09 17:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/02/09 17:52	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/02/09 17:52	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/02/09 17:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/02/09 17:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/02/09 17:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/02/09 17:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/02/09 17:52	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		10/02/09 17:52	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/02/09 17:52	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/02/09 17:52	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/02/09 17:52	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/02/09 17:52	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		10/02/09 17:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		10/02/09 17:52	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		10/02/09 17:52	60-29-7	

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ANALYTICAL RESULTS

Project: CRC Rochester
Pace Project No.: 10113598

Sample: DPE-6 **Lab ID: 10113598002** Collected: 09/28/09 04:30 Received: 09/29/09 16:18 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Ethylbenzene	ND	ug/L	1.0	1		10/02/09 17:52	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		10/02/09 17:52	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/02/09 17:52	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		10/02/09 17:52	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		10/02/09 17:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		10/02/09 17:52	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/02/09 17:52	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		10/02/09 17:52	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		10/02/09 17:52	103-65-1	
Styrene	ND	ug/L	1.0	1		10/02/09 17:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/02/09 17:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/02/09 17:52	79-34-5	
Tetrachloroethene	**79.3**	ug/L	1.0	1		10/02/09 17:52	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		10/02/09 17:52	109-99-9	
Toluene	ND	ug/L	1.0	1		10/02/09 17:52	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		10/02/09 17:52	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/02/09 17:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/02/09 17:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/02/09 17:52	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/02/09 17:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/02/09 17:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/02/09 17:52	96-18-4	
1,1,2-Trichlorotrifluoroethane	**3.5**	ug/L	1.0	1		10/02/09 17:52	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/02/09 17:52	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/02/09 17:52	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		10/02/09 17:52	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/02/09 17:52	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		10/02/09 17:52	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		10/02/09 17:52	95-47-6	
Dibromofluoromethane (S)	108	%	75-125	1		10/02/09 17:52	1868-53-7	
1,2-Dichloroethane-d4 (S)	114	%	75-125	1		10/02/09 17:52	17060-07-0	
Toluene-d8 (S)	95	%	75-125	1		10/02/09 17:52	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125	1		10/02/09 17:52	460-00-4	
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)							
Sulfide	ND	mg/L	5.0	1		10/02/09 09:30		
300.0 IC Anions	Analytical Method: EPA 300.0							
Nitrate as N	**1.5**	mg/L	0.40	1		09/30/09 19:38	14797-55-8	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C							
Dissolved Organic Carbon	ND	mg/L	2.0	1		10/02/09 09:37		
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-02							
Sulfate	**67.6**	mg/L	12.5	5		10/07/09 16:26	14808-79-8	

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ANALYTICAL RESULTS

Project: CRC Rochester
Pace Project No.: 10113598

Sample: DPE-7 **Lab ID: 10113598003** Collected: 09/28/09 05:00 Received: 09/29/09 16:18 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Methane	ND	ug/L	10.0	1		10/05/09 21:10	74-82-8	
200.7 MET ICP, Lab Filtered	Analytical Method: EPA 200.7		Preparation Method: EPA 200.7					
Iron, Dissolved	ND	ug/L	50.0	1	10/02/09 17:56	10/04/09 10:50	7439-89-6	
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		10/01/09 20:15	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		10/01/09 20:15	107-05-1	
Benzene	ND	ug/L	1.0	1		10/01/09 20:15	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/01/09 20:15	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/01/09 20:15	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/01/09 20:15	75-27-4	
Bromoform	ND	ug/L	8.0	1		10/01/09 20:15	75-25-2	
Bromomethane	ND	ug/L	4.0	1		10/01/09 20:15	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		10/01/09 20:15	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		10/01/09 20:15	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		10/01/09 20:15	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/01/09 20:15	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		10/01/09 20:15	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/01/09 20:15	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/01/09 20:15	75-00-3	
Chloroform	**1.3**	ug/L	1.0	1		10/01/09 20:15	67-66-3	
Chloromethane	ND	ug/L	4.0	1		10/01/09 20:15	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		10/01/09 20:15	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/01/09 20:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		10/01/09 20:15	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/01/09 20:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/01/09 20:15	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		10/01/09 20:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/01/09 20:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/01/09 20:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/01/09 20:15	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/01/09 20:15	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/01/09 20:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/01/09 20:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/01/09 20:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/01/09 20:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/01/09 20:15	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		10/01/09 20:15	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/01/09 20:15	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/01/09 20:15	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/01/09 20:15	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/01/09 20:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		10/01/09 20:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		10/01/09 20:15	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		10/01/09 20:15	60-29-7	

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ANALYTICAL RESULTS

Project: CRC Rochester
Pace Project No.: 10113598

Sample: DPE-7 **Lab ID: 10113598003** Collected: 09/28/09 05:00 Received: 09/29/09 16:18 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Ethylbenzene	ND	ug/L	1.0	1		10/01/09 20:15	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		10/01/09 20:15	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/01/09 20:15	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		10/01/09 20:15	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		10/01/09 20:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		10/01/09 20:15	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/01/09 20:15	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		10/01/09 20:15	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		10/01/09 20:15	103-65-1	
Styrene	ND	ug/L	1.0	1		10/01/09 20:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/01/09 20:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/01/09 20:15	79-34-5	
Tetrachloroethene	**5.2**	ug/L	1.0	1		10/01/09 20:15	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		10/01/09 20:15	109-99-9	
Toluene	ND	ug/L	1.0	1		10/01/09 20:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		10/01/09 20:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/01/09 20:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/01/09 20:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/01/09 20:15	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/01/09 20:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/01/09 20:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/01/09 20:15	96-18-4	
1,1,2-Trichlorotrifluoroethane	**1.6**	ug/L	1.0	1		10/01/09 20:15	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/01/09 20:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/01/09 20:15	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		10/01/09 20:15	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/01/09 20:15	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		10/01/09 20:15	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		10/01/09 20:15	95-47-6	
Dibromofluoromethane (S)	103	%	75-125	1		10/01/09 20:15	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	75-125	1		10/01/09 20:15	17060-07-0	
Toluene-d8 (S)	96	%	75-125	1		10/01/09 20:15	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125	1		10/01/09 20:15	460-00-4	
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)							
Sulfide	ND	mg/L	5.0	1		10/02/09 09:30		
300.0 IC Anions	Analytical Method: EPA 300.0							
Nitrate as N	**1.9**	mg/L	0.40	1		09/30/09 19:52	14797-55-8	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C							
Dissolved Organic Carbon	ND	mg/L	2.0	1		10/02/09 09:40		
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-02							
Sulfate	**85.6**	mg/L	12.5	5		10/07/09 16:26	14808-79-8	

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ANALYTICAL RESULTS

Project: CRC Rochester
Pace Project No.: 10113598

Sample: DPE-8 **Lab ID: 10113598004** Collected: 09/28/09 05:30 Received: 09/29/09 16:18 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Methane	ND	ug/L	10.0	1		10/05/09 21:36	74-82-8	
200.7 MET ICP, Lab Filtered	Analytical Method: EPA 200.7		Preparation Method: EPA 200.7					
Iron, Dissolved	ND	ug/L	50.0	1	10/02/09 17:56	10/04/09 10:57	7439-89-6	
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	20.0	2		10/02/09 23:03	67-64-1	
Allyl chloride	ND	ug/L	8.0	2		10/02/09 23:03	107-05-1	
Benzene	ND	ug/L	2.0	2		10/02/09 23:03	71-43-2	
Bromobenzene	ND	ug/L	2.0	2		10/02/09 23:03	108-86-1	
Bromochloromethane	ND	ug/L	2.0	2		10/02/09 23:03	74-97-5	
Bromodichloromethane	ND	ug/L	2.0	2		10/02/09 23:03	75-27-4	
Bromoform	ND	ug/L	16.0	2		10/02/09 23:03	75-25-2	
Bromomethane	ND	ug/L	8.0	2		10/02/09 23:03	74-83-9	
2-Butanone (MEK)	**24.1**	ug/L	8.0	2		10/02/09 23:03	78-93-3	
n-Butylbenzene	ND	ug/L	2.0	2		10/02/09 23:03	104-51-8	
sec-Butylbenzene	ND	ug/L	2.0	2		10/02/09 23:03	135-98-8	
tert-Butylbenzene	ND	ug/L	2.0	2		10/02/09 23:03	98-06-6	
Carbon tetrachloride	ND	ug/L	2.0	2		10/02/09 23:03	56-23-5	
Chlorobenzene	ND	ug/L	2.0	2		10/02/09 23:03	108-90-7	
Chloroethane	ND	ug/L	2.0	2		10/02/09 23:03	75-00-3	
Chloroform	ND	ug/L	2.0	2		10/02/09 23:03	67-66-3	
Chloromethane	ND	ug/L	8.0	2		10/02/09 23:03	74-87-3	
2-Chlorotoluene	ND	ug/L	2.0	2		10/02/09 23:03	95-49-8	
4-Chlorotoluene	ND	ug/L	2.0	2		10/02/09 23:03	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	8.0	2		10/02/09 23:03	96-12-8	
Dibromochloromethane	ND	ug/L	2.0	2		10/02/09 23:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	2		10/02/09 23:03	106-93-4	
Dibromomethane	ND	ug/L	2.0	2		10/02/09 23:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	2.0	2		10/02/09 23:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2.0	2		10/02/09 23:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2.0	2		10/02/09 23:03	106-46-7	
Dichlorodifluoromethane	ND	ug/L	2.0	2		10/02/09 23:03	75-71-8	
1,1-Dichloroethane	ND	ug/L	2.0	2		10/02/09 23:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	2.0	2		10/02/09 23:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	2.0	2		10/02/09 23:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	2.0	2		10/02/09 23:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	2.0	2		10/02/09 23:03	156-60-5	
Dichlorofluoromethane	ND	ug/L	2.0	2		10/02/09 23:03	75-43-4	
1,2-Dichloropropane	ND	ug/L	2.0	2		10/02/09 23:03	78-87-5	
1,3-Dichloropropane	ND	ug/L	2.0	2		10/02/09 23:03	142-28-9	
2,2-Dichloropropane	ND	ug/L	2.0	2		10/02/09 23:03	594-20-7	
1,1-Dichloropropene	ND	ug/L	2.0	2		10/02/09 23:03	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	8.0	2		10/02/09 23:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	8.0	2		10/02/09 23:03	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	8.0	2		10/02/09 23:03	60-29-7	

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ANALYTICAL RESULTS

Project: CRC Rochester
Pace Project No.: 10113598

Sample: DPE-8 **Lab ID: 10113598004** Collected: 09/28/09 05:30 Received: 09/29/09 16:18 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Ethylbenzene	ND	ug/L	2.0	2		10/02/09 23:03	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	8.0	2		10/02/09 23:03	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	2.0	2		10/02/09 23:03	98-82-8	
p-Isopropyltoluene	ND	ug/L	2.0	2		10/02/09 23:03	99-87-6	
Methylene Chloride	ND	ug/L	8.0	2		10/02/09 23:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	8.0	2		10/02/09 23:03	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	2.0	2		10/02/09 23:03	1634-04-4	
Naphthalene	ND	ug/L	8.0	2		10/02/09 23:03	91-20-3	
n-Propylbenzene	ND	ug/L	2.0	2		10/02/09 23:03	103-65-1	
Styrene	ND	ug/L	2.0	2		10/02/09 23:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	2.0	2		10/02/09 23:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.0	2		10/02/09 23:03	79-34-5	
Tetrachloroethene	**1850**	ug/L	20.0	20		10/02/09 19:43	127-18-4	
Tetrahydrofuran	**46.1**	ug/L	20.0	2		10/02/09 23:03	109-99-9	
Toluene	ND	ug/L	2.0	2		10/02/09 23:03	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	2		10/02/09 23:03	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	2		10/02/09 23:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	2.0	2		10/02/09 23:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	2.0	2		10/02/09 23:03	79-00-5	
Trichloroethene	ND	ug/L	2.0	2		10/02/09 23:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	2.0	2		10/02/09 23:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.0	2		10/02/09 23:03	96-18-4	
1,1,2-Trichlorotrifluoroethane	**43.4**	ug/L	2.0	2		10/02/09 23:03	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	2.0	2		10/02/09 23:03	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	2.0	2		10/02/09 23:03	108-67-8	
Vinyl chloride	ND	ug/L	0.80	2		10/02/09 23:03	75-01-4	
Xylene (Total)	ND	ug/L	6.0	2		10/02/09 23:03	1330-20-7	
m&p-Xylene	ND	ug/L	4.0	2		10/02/09 23:03	1330-20-7	
o-Xylene	ND	ug/L	2.0	2		10/02/09 23:03	95-47-6	
Dibromofluoromethane (S)	109	%	75-125	2		10/02/09 23:03	1868-53-7	
1,2-Dichloroethane-d4 (S)	121	%	75-125	2		10/02/09 23:03	17060-07-0	
Toluene-d8 (S)	94	%	75-125	2		10/02/09 23:03	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125	2		10/02/09 23:03	460-00-4	
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)							
Sulfide	ND	mg/L	5.0	1		10/02/09 09:30		
300.0 IC Anions	Analytical Method: EPA 300.0							
Nitrate as N	**4.3**	mg/L	0.40	1		09/30/09 20:06	14797-55-8	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C							
Dissolved Organic Carbon	**3.0**	mg/L	2.0	1		10/02/09 09:44		
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-02							
Sulfate	**149**	mg/L	12.5	5		10/07/09 16:26	14808-79-8	

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ANALYTICAL RESULTS

Project: CRC Rochester
Pace Project No.: 10113598

Sample: MW-19 **Lab ID: 10113598005** Collected: 09/28/09 11:40 Received: 09/29/09 16:18 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Methane	**10.7**	ug/L	10.0	1		10/05/09 22:01	74-82-8	pH
200.7 MET ICP, Lab Filtered	Analytical Method: EPA 200.7		Preparation Method: EPA 200.7					
Iron, Dissolved	ND	ug/L	50.0	1	10/02/09 17:56	10/04/09 11:03	7439-89-6	
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		10/01/09 20:38	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		10/01/09 20:38	107-05-1	
Benzene	ND	ug/L	1.0	1		10/01/09 20:38	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/01/09 20:38	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/01/09 20:38	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/01/09 20:38	75-27-4	
Bromoform	ND	ug/L	8.0	1		10/01/09 20:38	75-25-2	
Bromomethane	ND	ug/L	4.0	1		10/01/09 20:38	74-83-9	
2-Butanone (MEK)	**5.5**	ug/L	4.0	1		10/01/09 20:38	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		10/01/09 20:38	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		10/01/09 20:38	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/01/09 20:38	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		10/01/09 20:38	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/01/09 20:38	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/01/09 20:38	75-00-3	
Chloroform	ND	ug/L	1.0	1		10/01/09 20:38	67-66-3	
Chloromethane	ND	ug/L	4.0	1		10/01/09 20:38	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		10/01/09 20:38	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/01/09 20:38	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		10/01/09 20:38	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/01/09 20:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/01/09 20:38	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		10/01/09 20:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/01/09 20:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/01/09 20:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/01/09 20:38	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/01/09 20:38	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/01/09 20:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/01/09 20:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/01/09 20:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/01/09 20:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/01/09 20:38	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		10/01/09 20:38	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/01/09 20:38	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/01/09 20:38	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/01/09 20:38	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/01/09 20:38	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		10/01/09 20:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		10/01/09 20:38	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		10/01/09 20:38	60-29-7	

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ANALYTICAL RESULTS

Project: CRC Rochester
Pace Project No.: 10113598

Sample: MW-19 **Lab ID: 10113598005** Collected: 09/28/09 11:40 Received: 09/29/09 16:18 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Ethylbenzene	ND	ug/L	1.0	1		10/01/09 20:38	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		10/01/09 20:38	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/01/09 20:38	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		10/01/09 20:38	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		10/01/09 20:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		10/01/09 20:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/01/09 20:38	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		10/01/09 20:38	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		10/01/09 20:38	103-65-1	
Styrene	ND	ug/L	1.0	1		10/01/09 20:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/01/09 20:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/01/09 20:38	79-34-5	
Tetrachloroethene	**17.4**	ug/L	1.0	1		10/01/09 20:38	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		10/01/09 20:38	109-99-9	
Toluene	ND	ug/L	1.0	1		10/01/09 20:38	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		10/01/09 20:38	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/01/09 20:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/01/09 20:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/01/09 20:38	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/01/09 20:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/01/09 20:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/01/09 20:38	96-18-4	
1,1,2-Trichlorotrifluoroethane	**2.4**	ug/L	1.0	1		10/01/09 20:38	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/01/09 20:38	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/01/09 20:38	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		10/01/09 20:38	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/01/09 20:38	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		10/01/09 20:38	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		10/01/09 20:38	95-47-6	
Dibromofluoromethane (S)	102	%	75-125	1		10/01/09 20:38	1868-53-7	pH
1,2-Dichloroethane-d4 (S)	106	%	75-125	1		10/01/09 20:38	17060-07-0	
Toluene-d8 (S)	97	%	75-125	1		10/01/09 20:38	2037-26-5	
4-Bromofluorobenzene (S)	97	%	75-125	1		10/01/09 20:38	460-00-4	
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)							
Sulfide	ND	mg/L	5.0	1		10/02/09 09:30		
300.0 IC Anions	Analytical Method: EPA 300.0							
Nitrate as N	**16.8**	mg/L	2.0	5		10/01/09 10:57	14797-55-8	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C							
Dissolved Organic Carbon	ND	mg/L	2.0	1		10/02/09 09:48		
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-02							
Sulfate	**156**	mg/L	25.0	10		10/07/09 16:51	14808-79-8	

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QUALITY CONTROL DATA

Project: CRC Rochester
Pace Project No.: 10113598

QC Batch: MSV/13164 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 10113598002, 10113598004

METHOD BLANK: 690920 Matrix: Water
Associated Lab Samples: 10113598002, 10113598004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	10/02/09 14:10	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/02/09 14:10	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/02/09 14:10	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/02/09 14:10	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	10/02/09 14:10	
1,1-Dichloroethane	ug/L	ND	1.0	10/02/09 14:10	
1,1-Dichloroethene	ug/L	ND	1.0	10/02/09 14:10	
1,1-Dichloropropene	ug/L	ND	1.0	10/02/09 14:10	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	10/02/09 14:10	
1,2,3-Trichloropropane	ug/L	ND	1.0	10/02/09 14:10	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	10/02/09 14:10	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	10/02/09 14:10	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	10/02/09 14:10	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/02/09 14:10	
1,2-Dichlorobenzene	ug/L	ND	1.0	10/02/09 14:10	
1,2-Dichloroethane	ug/L	ND	1.0	10/02/09 14:10	
1,2-Dichloropropane	ug/L	ND	1.0	10/02/09 14:10	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	10/02/09 14:10	
1,3-Dichlorobenzene	ug/L	ND	1.0	10/02/09 14:10	
1,3-Dichloropropane	ug/L	ND	1.0	10/02/09 14:10	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/02/09 14:10	
2,2-Dichloropropane	ug/L	ND	1.0	10/02/09 14:10	
2-Butanone (MEK)	ug/L	ND	4.0	10/02/09 14:10	
2-Chlorotoluene	ug/L	ND	1.0	10/02/09 14:10	
4-Chlorotoluene	ug/L	ND	1.0	10/02/09 14:10	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	10/02/09 14:10	
Acetone	ug/L	ND	10.0	10/02/09 14:10	
Allyl chloride	ug/L	ND	4.0	10/02/09 14:10	
Benzene	ug/L	ND	1.0	10/02/09 14:10	
Bromobenzene	ug/L	ND	1.0	10/02/09 14:10	
Bromochloromethane	ug/L	ND	1.0	10/02/09 14:10	
Bromodichloromethane	ug/L	ND	1.0	10/02/09 14:10	
Bromoform	ug/L	ND	8.0	10/02/09 14:10	
Bromomethane	ug/L	ND	4.0	10/02/09 14:10	
Carbon tetrachloride	ug/L	ND	1.0	10/02/09 14:10	
Chlorobenzene	ug/L	ND	1.0	10/02/09 14:10	
Chloroethane	ug/L	ND	1.0	10/02/09 14:10	
Chloroform	ug/L	ND	1.0	10/02/09 14:10	
Chloromethane	ug/L	ND	4.0	10/02/09 14:10	
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/02/09 14:10	
cis-1,3-Dichloropropene	ug/L	ND	4.0	10/02/09 14:10	
Dibromochloromethane	ug/L	ND	1.0	10/02/09 14:10	
Dibromomethane	ug/L	ND	1.0	10/02/09 14:10	

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QUALITY CONTROL DATA

Project: CRC Rochester
Pace Project No.: 10113598

METHOD BLANK: 690920 Matrix: Water

Associated Lab Samples: 10113598002, 10113598004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	10/02/09 14:10	
Dichlorofluoromethane	ug/L	ND	1.0	10/02/09 14:10	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	10/02/09 14:10	
Ethylbenzene	ug/L	ND	1.0	10/02/09 14:10	
Hexachloro-1,3-butadiene	ug/L	ND	4.0	10/02/09 14:10	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	10/02/09 14:10	
m&p-Xylene	ug/L	ND	2.0	10/02/09 14:10	
Methyl-tert-butyl ether	ug/L	ND	1.0	10/02/09 14:10	
Methylene Chloride	ug/L	ND	4.0	10/02/09 14:10	
n-Butylbenzene	ug/L	ND	1.0	10/02/09 14:10	
n-Propylbenzene	ug/L	ND	1.0	10/02/09 14:10	
Naphthalene	ug/L	ND	4.0	10/02/09 14:10	
o-Xylene	ug/L	ND	1.0	10/02/09 14:10	
p-Isopropyltoluene	ug/L	ND	1.0	10/02/09 14:10	
sec-Butylbenzene	ug/L	ND	1.0	10/02/09 14:10	
Styrene	ug/L	ND	1.0	10/02/09 14:10	
tert-Butylbenzene	ug/L	ND	1.0	10/02/09 14:10	
Tetrachloroethene	ug/L	ND	1.0	10/02/09 14:10	
Tetrahydrofuran	ug/L	ND	10.0	10/02/09 14:10	
Toluene	ug/L	ND	1.0	10/02/09 14:10	
trans-1,2-Dichloroethene	ug/L	ND	1.0	10/02/09 14:10	
trans-1,3-Dichloropropene	ug/L	ND	4.0	10/02/09 14:10	
Trichloroethene	ug/L	ND	1.0	10/02/09 14:10	
Trichlorofluoromethane	ug/L	ND	1.0	10/02/09 14:10	
Vinyl chloride	ug/L	ND	0.40	10/02/09 14:10	
Xylene (Total)	ug/L	ND	3.0	10/02/09 14:10	
1,2-Dichloroethane-d4 (S)	%	107	75-125	10/02/09 14:10	
4-Bromofluorobenzene (S)	%	104	75-125	10/02/09 14:10	
Dibromofluoromethane (S)	%	103	75-125	10/02/09 14:10	
Toluene-d8 (S)	%	98	75-125	10/02/09 14:10	

LABORATORY CONTROL SAMPLE: 690921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.8	98	75-125	
1,1,1-Trichloroethane	ug/L	50	48.2	96	75-125	
1,1,2,2-Tetrachloroethane	ug/L	50	49.0	98	75-125	
1,1,2-Trichloroethane	ug/L	50	48.4	97	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	46.3	93	70-138	
1,1-Dichloroethane	ug/L	50	48.5	97	75-125	
1,1-Dichloroethene	ug/L	50	46.4	93	69-129	
1,1-Dichloropropene	ug/L	50	48.4	97	75-126	
1,2,3-Trichlorobenzene	ug/L	50	48.7	97	75-125	
1,2,3-Trichloropropane	ug/L	50	49.3	99	72-126	
1,2,4-Trichlorobenzene	ug/L	50	50.9	102	75-125	

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QUALITY CONTROL DATA

Project: CRC Rochester
Pace Project No.: 10113598

LABORATORY CONTROL SAMPLE: 690921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	50	49.8	100	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	49.3	99	67-125	
1,2-Dibromoethane (EDB)	ug/L	50	48.2	96	75-125	
1,2-Dichlorobenzene	ug/L	50	49.3	99	75-125	
1,2-Dichloroethane	ug/L	50	50.3	101	75-125	
1,2-Dichloropropane	ug/L	50	49.4	99	75-125	
1,3,5-Trimethylbenzene	ug/L	50	50.0	100	75-125	
1,3-Dichlorobenzene	ug/L	50	48.9	98	75-125	
1,3-Dichloropropane	ug/L	50	50.4	101	75-125	
1,4-Dichlorobenzene	ug/L	50	47.9	96	75-125	
2,2-Dichloropropane	ug/L	50	52.8	106	48-150	
2-Butanone (MEK)	ug/L	50	51.5	103	51-134	
2-Chlorotoluene	ug/L	50	50.7	101	75-125	
4-Chlorotoluene	ug/L	50	50.2	100	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	50	54.8	110	60-125	
Acetone	ug/L	125	145	116	38-125	
Allyl chloride	ug/L	50	44.3	89	64-137	
Benzene	ug/L	50	49.0	98	75-125	
Bromobenzene	ug/L	50	48.7	97	75-125	
Bromochloromethane	ug/L	50	44.8	90	75-125	
Bromodichloromethane	ug/L	50	48.8	98	75-125	
Bromoform	ug/L	100	101	101	68-125	
Bromomethane	ug/L	50	48.6	97	47-129	
Carbon tetrachloride	ug/L	50	47.6	95	59-133	
Chlorobenzene	ug/L	50	47.3	95	75-125	
Chloroethane	ug/L	50	38.8	78	73-132	
Chloroform	ug/L	50	47.8	96	75-125	
Chloromethane	ug/L	50	39.3	79	72-125	
cis-1,2-Dichloroethene	ug/L	50	47.6	95	75-125	
cis-1,3-Dichloropropene	ug/L	50	52.3	105	75-125	
Dibromochloromethane	ug/L	50	49.6	99	75-125	
Dibromomethane	ug/L	50	45.6	91	75-125	
Dichlorodifluoromethane	ug/L	50	41.4	83	69-134	
Dichlorofluoromethane	ug/L	50	46.1	92	70-125	
Diethyl ether (Ethyl ether)	ug/L	50	48.5	97	71-125	
Ethylbenzene	ug/L	50	48.6	97	75-125	
Hexachloro-1,3-butadiene	ug/L	50	47.2	94	75-137	
Isopropylbenzene (Cumene)	ug/L	50	50.1	100	75-125	
m&p-Xylene	ug/L	100	102	102	75-125	
Methyl-tert-butyl ether	ug/L	50	52.0	104	75-125	
Methylene Chloride	ug/L	50	45.7	91	75-125	
n-Butylbenzene	ug/L	50	50.9	102	75-125	
n-Propylbenzene	ug/L	50	49.2	98	75-125	
Naphthalene	ug/L	50	54.3	109	72-125	
o-Xylene	ug/L	50	50.5	101	75-125	
p-Isopropyltoluene	ug/L	50	48.2	96	75-125	
sec-Butylbenzene	ug/L	50	49.6	99	75-125	
Styrene	ug/L	50	51.7	103	75-125	

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QUALITY CONTROL DATA

Project: CRC Rochester
Pace Project No.: 10113598

LABORATORY CONTROL SAMPLE: 690921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	51.8	104	75-125	
Tetrachloroethene	ug/L	50	43.9	88	74-125	
Tetrahydrofuran	ug/L	500	523	105	65-125	
Toluene	ug/L	50	47.6	95	75-125	
trans-1,2-Dichloroethene	ug/L	50	45.5	91	74-125	
trans-1,3-Dichloropropene	ug/L	50	54.3	109	75-125	
Trichloroethene	ug/L	50	46.5	93	75-125	
Trichlorofluoromethane	ug/L	50	45.4	91	73-134	
Vinyl chloride	ug/L	50	41.5	83	75-126	
Xylene (Total)	ug/L	150	152	102	75-125	
1,2-Dichloroethane-d4 (S)	%			108	75-125	
4-Bromofluorobenzene (S)	%			105	75-125	
Dibromofluoromethane (S)	%			104	75-125	
Toluene-d8 (S)	%			100	75-125	

MATRIX SPIKE SAMPLE: 690922

Parameter	Units	10113347006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20.5	103	71-125	
1,1,1-Trichloroethane	ug/L	ND	20	22.1	110	75-125	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	19.9	99	75-126	
1,1,2-Trichloroethane	ug/L	ND	20	19.1	95	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	23.2	116	70-150	
1,1-Dichloroethane	ug/L	ND	20	21.3	107	75-125	
1,1-Dichloroethene	ug/L	ND	20	21.5	108	64-142	
1,1-Dichloropropene	ug/L	ND	20	22.0	110	75-125	
1,2,3-Trichlorobenzene	ug/L	ND	20	20.6	103	75-125	
1,2,3-Trichloropropane	ug/L	ND	20	19.2	96	72-127	
1,2,4-Trichlorobenzene	ug/L	ND	20	21.0	105	75-125	
1,2,4-Trimethylbenzene	ug/L	ND	20	21.4	107	75-125	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	19.0	95	65-125	
1,2-Dibromoethane (EDB)	ug/L	ND	20	18.8	94	75-125	
1,2-Dichlorobenzene	ug/L	ND	20	20.5	102	75-125	
1,2-Dichloroethane	ug/L	ND	20	20.3	102	75-125	
1,2-Dichloropropane	ug/L	ND	20	19.9	100	75-125	
1,3,5-Trimethylbenzene	ug/L	ND	20	21.6	108	75-127	
1,3-Dichlorobenzene	ug/L	ND	20	20.2	101	75-125	
1,3-Dichloropropane	ug/L	ND	20	19.6	98	75-125	
1,4-Dichlorobenzene	ug/L	ND	20	20.3	102	75-125	
2,2-Dichloropropane	ug/L	ND	20	24.1	120	48-150	
2-Butanone (MEK)	ug/L	ND	20	21.3	91	51-134	
2-Chlorotoluene	ug/L	ND	20	21.3	106	75-125	
4-Chlorotoluene	ug/L	ND	20	21.3	107	68-127	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	19.7	99	60-135	
Acetone	ug/L	13.4	50	60.2	93	30-125	
Allyl chloride	ug/L	ND	20	19.5	98	40-137	
Benzene	ug/L	1.4	20	22.5	105	75-125	

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QUALITY CONTROL DATA

Project: CRC Rochester
Pace Project No.: 10113598

MATRIX SPIKE SAMPLE: 690922

Parameter	Units	10113347006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromobenzene	ug/L	ND	20	20.1	101	75-125	
Bromochloromethane	ug/L	ND	20	17.0	85	75-125	
Bromodichloromethane	ug/L	ND	20	19.6	98	72-125	
Bromoform	ug/L	ND	40	38.8	97	51-125	
Bromomethane	ug/L	ND	20	19.8	99	47-130	
Carbon tetrachloride	ug/L	ND	20	22.1	110	61-133	
Chlorobenzene	ug/L	ND	20	19.9	100	75-125	
Chloroethane	ug/L	ND	20	18.8	94	75-132	
Chloroform	ug/L	ND	20	20.9	104	75-125	
Chloromethane	ug/L	ND	20	17.4	87	68-132	
cis-1,2-Dichloroethene	ug/L	ND	20	21.2	103	75-125	
cis-1,3-Dichloropropene	ug/L	ND	20	20.0	100	63-125	
Dibromochloromethane	ug/L	ND	20	19.7	98	62-125	
Dibromomethane	ug/L	ND	20	18.4	92	75-125	
Dichlorodifluoromethane	ug/L	ND	20	22.5	112	65-150	
Dichlorofluoromethane	ug/L	ND	20	21.1	105	68-127	
Diethyl ether (Ethyl ether)	ug/L	ND	20	18.7	94	71-125	
Ethylbenzene	ug/L	ND	20	21.0	105	75-125	
Hexachloro-1,3-butadiene	ug/L	ND	20	22.7	113	75-147	
Isopropylbenzene (Cumene)	ug/L	ND	20	22.2	111	75-125	
m&p-Xylene	ug/L	ND	40	43.0	107	67-125	
Methyl-tert-butyl ether	ug/L	ND	20	20.0	100	75-125	
Methylene Chloride	ug/L	ND	20	18.8	94	75-125	
n-Butylbenzene	ug/L	ND	20	22.7	113	70-135	
n-Propylbenzene	ug/L	ND	20	22.1	111	70-131	
Naphthalene	ug/L	ND	20	21.9	110	66-127	
o-Xylene	ug/L	ND	20	21.2	106	72-125	
p-Isopropyltoluene	ug/L	ND	20	21.4	107	71-126	
sec-Butylbenzene	ug/L	ND	20	22.6	113	75-127	
Styrene	ug/L	ND	20	21.1	106	30-134	
tert-Butylbenzene	ug/L	ND	20	22.0	110	75-125	
Tetrachloroethene	ug/L	ND	20	20.3	101	74-125	
Tetrahydrofuran	ug/L	ND	200	201	101	65-125	
Toluene	ug/L	ND	20	20.7	103	75-125	
trans-1,2-Dichloroethene	ug/L	ND	20	20.6	103	72-125	
trans-1,3-Dichloropropene	ug/L	ND	20	20.9	104	63-125	
Trichloroethene	ug/L	ND	20	20.5	102	58-127	
Trichlorofluoromethane	ug/L	ND	20	22.5	113	73-150	
Vinyl chloride	ug/L	0.80	20	20.8	100	75-134	
Xylene (Total)	ug/L	ND	60	64.1	107	75-125	
1,2-Dichloroethane-d4 (S)	%				103	75-125	
4-Bromofluorobenzene (S)	%				104	75-125	
Dibromofluoromethane (S)	%				103	75-125	
Toluene-d8 (S)	%				102	75-125	

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QUALITY CONTROL DATA

Project: CRC Rochester
Pace Project No.: 10113598

SAMPLE DUPLICATE: 691012

Parameter	Units	10113343012 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,2-Trichloroethane	ug/L	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	ND		30	
1,1-Dichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethene	ug/L	ND	ND		30	
1,1-Dichloropropene	ug/L	ND	ND		30	
1,2,3-Trichlorobenzene	ug/L	ND	ND		30	
1,2,3-Trichloropropane	ug/L	ND	ND		30	
1,2,4-Trichlorobenzene	ug/L	ND	ND		30	
1,2,4-Trimethylbenzene	ug/L	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		30	
1,2-Dichlorobenzene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L	ND	ND		30	
1,2-Dichloropropane	ug/L	ND	ND		30	
1,3,5-Trimethylbenzene	ug/L	ND	ND		30	
1,3-Dichlorobenzene	ug/L	ND	ND		30	
1,3-Dichloropropane	ug/L	ND	ND		30	
1,4-Dichlorobenzene	ug/L	ND	ND		30	
2,2-Dichloropropane	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	ND	ND		30	
2-Chlorotoluene	ug/L	ND	ND		30	
4-Chlorotoluene	ug/L	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	
Acetone	ug/L	ND	ND		30	
Allyl chloride	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Bromobenzene	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroethane	ug/L	ND	ND		30	
Chloroform	ug/L	ND	ND		30	
Chloromethane	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	ND	ND		30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Dichlorofluoromethane	ug/L	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: CRC Rochester
Pace Project No.: 10113598

SAMPLE DUPLICATE: 691012

Parameter	Units	10113343012 Result	Dup Result	RPD	Max RPD	Qualifiers
Isopropylbenzene (Cumene)	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
n-Butylbenzene	ug/L	ND	ND		30	
n-Propylbenzene	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
sec-Butylbenzene	ug/L	ND	ND		30	
Styrene	ug/L	ND	ND		30	
tert-Butylbenzene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	ND	ND		30	
Tetrahydrofuran	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	108	109	2		
4-Bromofluorobenzene (S)	%	98	96	2		
Dibromofluoromethane (S)	%	100	108	7		
Toluene-d8 (S)	%	99	97	3		

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QUALITY CONTROL DATA

Project: CRC Rochester
Pace Project No.: 10113598

QC Batch: WETA/4846 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Dissolved Organic Carbon
Associated Lab Samples: 10113598001, 10113598002, 10113598003, 10113598004, 10113598005

METHOD BLANK: 214574 Matrix: Water
Associated Lab Samples: 10113598001, 10113598002, 10113598003, 10113598004, 10113598005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	2.0	10/02/09 08:40	

LABORATORY CONTROL SAMPLE: 214575

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	100	100	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 214576 214577

Parameter	Units	10113554001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	<2.0	100	100	101	101	99	100	80-120	.5	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 214578 214579

Parameter	Units	10113598001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	ND	100	100	99.2	101	97	99	80-120	2	20	

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QUALITY CONTROL DATA

Project: CRC Rochester
Pace Project No.: 10113598

QC Batch: WETA/4849 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 10113598001, 10113598002, 10113598003, 10113598004, 10113598005

METHOD BLANK: 214744 Matrix: Water
Associated Lab Samples: 10113598001, 10113598002, 10113598003, 10113598004, 10113598005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate as N	mg/L	ND	0.40	09/30/09 18:13	

LABORATORY CONTROL SAMPLE: 214745

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	2	2.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 214746 214747

Parameter	Units	4023262002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	0.47	2	2	2.5	2.5	100	100	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 214748 214749

Parameter	Units	10113598005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	16.8	10	10	26.9	26.9	102	102	90-110	0	20	

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QUALITY CONTROL DATA

Project: CRC Rochester
Pace Project No.: 10113598

QC Batch: WET/4658 Analysis Method: SM 4500-S F (2000)
QC Batch Method: SM 4500-S F (2000) Analysis Description: 4500S2F Sulfide, Iodometric
Associated Lab Samples: 10113598001, 10113598002, 10113598003, 10113598004, 10113598005

METHOD BLANK: 215866 Matrix: Water
Associated Lab Samples: 10113598001, 10113598002, 10113598003, 10113598004, 10113598005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	5.0	10/02/09 09:30	

LABORATORY CONTROL SAMPLE: 215867

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	52.4	51.6	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 215868 215869

Parameter	Units	10113598001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	52.4	52.4	46.4	49.2	88	94	80-120	6	20	

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QUALITY CONTROL DATA

Project: CRC Rochester
Pace Project No.: 10113598

QC Batch: MSV/13158 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 10113598001, 10113598003, 10113598005

METHOD BLANK: 690214 Matrix: Water
Associated Lab Samples: 10113598001, 10113598003, 10113598005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	10/01/09 15:27	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/01/09 15:27	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/01/09 15:27	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/01/09 15:27	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	10/01/09 15:27	
1,1-Dichloroethane	ug/L	ND	1.0	10/01/09 15:27	
1,1-Dichloroethene	ug/L	ND	1.0	10/01/09 15:27	
1,1-Dichloropropene	ug/L	ND	1.0	10/01/09 15:27	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	10/01/09 15:27	
1,2,3-Trichloropropane	ug/L	ND	1.0	10/01/09 15:27	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	10/01/09 15:27	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	10/01/09 15:27	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	10/01/09 15:27	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/01/09 15:27	
1,2-Dichlorobenzene	ug/L	ND	1.0	10/01/09 15:27	
1,2-Dichloroethane	ug/L	ND	1.0	10/01/09 15:27	
1,2-Dichloropropane	ug/L	ND	1.0	10/01/09 15:27	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	10/01/09 15:27	
1,3-Dichlorobenzene	ug/L	ND	1.0	10/01/09 15:27	
1,3-Dichloropropane	ug/L	ND	1.0	10/01/09 15:27	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/01/09 15:27	
2,2-Dichloropropane	ug/L	ND	1.0	10/01/09 15:27	
2-Butanone (MEK)	ug/L	ND	4.0	10/01/09 15:27	
2-Chlorotoluene	ug/L	ND	1.0	10/01/09 15:27	
4-Chlorotoluene	ug/L	ND	1.0	10/01/09 15:27	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	10/01/09 15:27	
Acetone	ug/L	ND	10.0	10/01/09 15:27	
Allyl chloride	ug/L	ND	4.0	10/01/09 15:27	
Benzene	ug/L	ND	1.0	10/01/09 15:27	
Bromobenzene	ug/L	ND	1.0	10/01/09 15:27	
Bromochloromethane	ug/L	ND	1.0	10/01/09 15:27	
Bromodichloromethane	ug/L	ND	1.0	10/01/09 15:27	
Bromoform	ug/L	ND	8.0	10/01/09 15:27	
Bromomethane	ug/L	ND	4.0	10/01/09 15:27	
Carbon tetrachloride	ug/L	ND	1.0	10/01/09 15:27	
Chlorobenzene	ug/L	ND	1.0	10/01/09 15:27	
Chloroethane	ug/L	ND	1.0	10/01/09 15:27	
Chloroform	ug/L	ND	1.0	10/01/09 15:27	
Chloromethane	ug/L	ND	4.0	10/01/09 15:27	
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/01/09 15:27	
cis-1,3-Dichloropropene	ug/L	ND	4.0	10/01/09 15:27	
Dibromochloromethane	ug/L	ND	1.0	10/01/09 15:27	
Dibromomethane	ug/L	ND	1.0	10/01/09 15:27	

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QUALITY CONTROL DATA

Project: CRC Rochester
Pace Project No.: 10113598

METHOD BLANK: 690214 Matrix: Water

Associated Lab Samples: 10113598001, 10113598003, 10113598005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	10/01/09 15:27	
Dichlorofluoromethane	ug/L	ND	1.0	10/01/09 15:27	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	10/01/09 15:27	
Ethylbenzene	ug/L	ND	1.0	10/01/09 15:27	
Hexachloro-1,3-butadiene	ug/L	ND	4.0	10/01/09 15:27	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	10/01/09 15:27	
m&p-Xylene	ug/L	ND	2.0	10/01/09 15:27	
Methyl-tert-butyl ether	ug/L	ND	1.0	10/01/09 15:27	
Methylene Chloride	ug/L	ND	4.0	10/01/09 15:27	
n-Butylbenzene	ug/L	ND	1.0	10/01/09 15:27	
n-Propylbenzene	ug/L	ND	1.0	10/01/09 15:27	
Naphthalene	ug/L	ND	4.0	10/01/09 15:27	
o-Xylene	ug/L	ND	1.0	10/01/09 15:27	
p-Isopropyltoluene	ug/L	ND	1.0	10/01/09 15:27	
sec-Butylbenzene	ug/L	ND	1.0	10/01/09 15:27	
Styrene	ug/L	ND	1.0	10/01/09 15:27	
tert-Butylbenzene	ug/L	ND	1.0	10/01/09 15:27	
Tetrachloroethene	ug/L	ND	1.0	10/01/09 15:27	
Tetrahydrofuran	ug/L	ND	10.0	10/01/09 15:27	
Toluene	ug/L	ND	1.0	10/01/09 15:27	
trans-1,2-Dichloroethene	ug/L	ND	1.0	10/01/09 15:27	
trans-1,3-Dichloropropene	ug/L	ND	4.0	10/01/09 15:27	
Trichloroethene	ug/L	ND	1.0	10/01/09 15:27	
Trichlorofluoromethane	ug/L	ND	1.0	10/01/09 15:27	
Vinyl chloride	ug/L	ND	0.40	10/01/09 15:27	
Xylene (Total)	ug/L	ND	3.0	10/01/09 15:27	
1,2-Dichloroethane-d4 (S)	%	105	75-125	10/01/09 15:27	
4-Bromofluorobenzene (S)	%	99	75-125	10/01/09 15:27	
Dibromofluoromethane (S)	%	104	75-125	10/01/09 15:27	
Toluene-d8 (S)	%	98	75-125	10/01/09 15:27	

LABORATORY CONTROL SAMPLE: 690215

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.6	97	75-125	
1,1,1-Trichloroethane	ug/L	50	46.1	92	75-125	
1,1,2,2-Tetrachloroethane	ug/L	50	50.6	101	75-125	
1,1,2-Trichloroethane	ug/L	50	49.2	98	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	40.7	81	70-138	
1,1-Dichloroethane	ug/L	50	46.5	93	75-125	
1,1-Dichloroethene	ug/L	50	45.0	90	69-129	
1,1-Dichloropropene	ug/L	50	46.0	92	75-126	
1,2,3-Trichlorobenzene	ug/L	50	49.3	99	75-125	
1,2,3-Trichloropropane	ug/L	50	48.9	98	72-126	
1,2,4-Trichlorobenzene	ug/L	50	50.0	100	75-125	

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QUALITY CONTROL DATA

Project: CRC Rochester
Pace Project No.: 10113598

LABORATORY CONTROL SAMPLE: 690215

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	50	49.3	99	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	51.8	104	67-125	
1,2-Dibromoethane (EDB)	ug/L	50	50.8	102	75-125	
1,2-Dichlorobenzene	ug/L	50	49.0	98	75-125	
1,2-Dichloroethane	ug/L	50	48.6	97	75-125	
1,2-Dichloropropane	ug/L	50	47.4	95	75-125	
1,3,5-Trimethylbenzene	ug/L	50	48.4	97	75-125	
1,3-Dichlorobenzene	ug/L	50	47.3	95	75-125	
1,3-Dichloropropane	ug/L	50	50.9	102	75-125	
1,4-Dichlorobenzene	ug/L	50	47.5	95	75-125	
2,2-Dichloropropane	ug/L	50	50.4	101	48-150	
2-Butanone (MEK)	ug/L	50	54.9	110	51-134	
2-Chlorotoluene	ug/L	50	49.8	100	75-125	
4-Chlorotoluene	ug/L	50	48.5	97	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	50	56.2	112	60-125	
Acetone	ug/L	125	151	121	38-125	
Allyl chloride	ug/L	50	43.3	87	64-137	
Benzene	ug/L	50	48.2	96	75-125	
Bromobenzene	ug/L	50	47.2	94	75-125	
Bromochloromethane	ug/L	50	44.0	88	75-125	
Bromodichloromethane	ug/L	50	47.2	94	75-125	
Bromoform	ug/L	100	107	107	68-125	
Bromomethane	ug/L	50	51.0	102	47-129	
Carbon tetrachloride	ug/L	50	45.2	90	59-133	
Chlorobenzene	ug/L	50	47.7	95	75-125	
Chloroethane	ug/L	50	40.3	81	73-132	
Chloroform	ug/L	50	46.1	92	75-125	
Chloromethane	ug/L	50	40.1	80	72-125	
cis-1,2-Dichloroethene	ug/L	50	46.5	93	75-125	
cis-1,3-Dichloropropene	ug/L	50	50.4	101	75-125	
Dibromochloromethane	ug/L	50	50.8	102	75-125	
Dibromomethane	ug/L	50	44.4	89	75-125	
Dichlorodifluoromethane	ug/L	50	42.3	85	69-134	
Dichlorofluoromethane	ug/L	50	44.4	89	70-125	
Diethyl ether (Ethyl ether)	ug/L	50	49.0	98	71-125	
Ethylbenzene	ug/L	50	48.7	97	75-125	
Hexachloro-1,3-butadiene	ug/L	50	44.8	90	75-137	
Isopropylbenzene (Cumene)	ug/L	50	49.8	100	75-125	
m&p-Xylene	ug/L	100	102	102	75-125	
Methyl-tert-butyl ether	ug/L	50	51.5	103	75-125	
Methylene Chloride	ug/L	50	44.7	89	75-125	
n-Butylbenzene	ug/L	50	48.1	96	75-125	
n-Propylbenzene	ug/L	50	49.7	99	75-125	
Naphthalene	ug/L	50	56.0	112	72-125	
o-Xylene	ug/L	50	51.0	102	75-125	
p-Isopropyltoluene	ug/L	50	46.9	94	75-125	
sec-Butylbenzene	ug/L	50	47.7	95	75-125	
Styrene	ug/L	50	51.5	103	75-125	

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QUALITY CONTROL DATA

Project: CRC Rochester
Pace Project No.: 10113598

LABORATORY CONTROL SAMPLE: 690215

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	49.0	98	75-125	
Tetrachloroethene	ug/L	50	45.1	90	74-125	
Tetrahydrofuran	ug/L	500	542	108	65-125	
Toluene	ug/L	50	47.6	95	75-125	
trans-1,2-Dichloroethene	ug/L	50	45.1	90	74-125	
trans-1,3-Dichloropropene	ug/L	50	53.0	106	75-125	
Trichloroethene	ug/L	50	45.5	91	75-125	
Trichlorofluoromethane	ug/L	50	43.9	88	73-134	
Vinyl chloride	ug/L	50	42.0	84	75-126	
Xylene (Total)	ug/L	150	153	102	75-125	
1,2-Dichloroethane-d4 (S)	%			104	75-125	
4-Bromofluorobenzene (S)	%			101	75-125	
Dibromofluoromethane (S)	%			98	75-125	
Toluene-d8 (S)	%			104	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 690216 690217

Parameter	Units	10113704002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20.6	21.7	103	108	71-125	5	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	22.8	22.4	114	112	75-125	2	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.4	22.0	102	110	75-126	7	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	20.0	20.3	100	102	75-125	2	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	20	25.1	23.9	126	120	70-150	5	30	
1,1-Dichloroethane	ug/L	ND	20	20	21.3	21.3	107	106	75-125	0	30	
1,1-Dichloroethene	ug/L	ND	20	20	23.1	23.5	115	118	64-142	2	30	
1,1-Dichloropropene	ug/L	ND	20	20	22.8	22.5	114	112	75-125	1	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	21.1	21.6	105	108	75-125	2	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	20.4	20.9	102	105	72-127	2	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	22.4	21.9	112	109	75-125	2	30	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	22.0	23.1	110	115	75-125	5	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	19.8	21.0	99	105	65-125	6	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	19.8	20.2	99	101	75-125	2	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	20.8	21.9	104	109	75-125	5	30	
1,2-Dichloroethane	ug/L	ND	20	20	20.0	20.8	100	104	75-125	4	30	
1,2-Dichloropropane	ug/L	ND	20	20	20.3	21.0	101	105	75-125	3	30	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	22.1	23.1	110	116	75-127	5	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	20.9	21.8	104	109	75-125	5	30	
1,3-Dichloropropane	ug/L	ND	20	20	20.5	21.0	103	105	75-125	2	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	20.8	21.5	104	107	75-125	3	30	
2,2-Dichloropropane	ug/L	ND	20	20	24.4	24.5	122	122	48-150	1	30	
2-Butanone (MEK)	ug/L	ND	20	20	20.9	20.0	105	100	51-134	5	30	
2-Chlorotoluene	ug/L	ND	20	20	22.3	22.9	111	114	75-125	3	30	
4-Chlorotoluene	ug/L	ND	20	20	21.8	22.6	109	113	68-127	3	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	21.3	21.7	107	108	60-135	2	30	
Acetone	ug/L	ND	50	50	44.0	47.0	88	94	30-125	7	30	
Allyl chloride	ug/L	ND	20	20	20.4	20.7	102	104	40-137	1	30	

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

QUALITY CONTROL DATA

Project: CRC Rochester
Pace Project No.: 10113598

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 690216 690217

Parameter	Units	10113704002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	20	20	21.9	22.3	110	112	75-125	2	30	
Bromobenzene	ug/L	ND	20	20	20.2	21.7	101	109	75-125	7	30	
Bromochloromethane	ug/L	ND	20	20	17.8	17.9	89	89	75-125	0	30	
Bromodichloromethane	ug/L	ND	20	20	20.0	20.7	100	104	72-125	3	30	
Bromoform	ug/L	ND	40	40	41.0	43.0	102	108	51-125	5	30	
Bromomethane	ug/L	ND	20	20	22.9	21.3	115	107	47-130	7	30	
Carbon tetrachloride	ug/L	ND	20	20	22.8	22.9	114	114	61-133	0	30	
Chlorobenzene	ug/L	ND	20	20	21.0	21.4	105	107	75-125	2	30	
Chloroethane	ug/L	ND	20	20	19.9	18.7	100	93	75-132	7	30	
Chloroform	ug/L	ND	20	20	20.7	20.7	103	104	75-125	0	30	
Chloromethane	ug/L	ND	20	20	19.4	18.3	97	91	68-132	6	30	
cis-1,2-Dichloroethene	ug/L	12.5	20	20	33.1	33.9	103	107	75-125	2	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	21.0	21.4	105	107	63-125	2	30	
Dibromochloromethane	ug/L	ND	20	20	20.3	20.8	102	104	62-125	2	30	
Dibromomethane	ug/L	ND	20	20	19.1	19.2	96	96	75-125	0	30	
Dichlorodifluoromethane	ug/L	ND	20	20	26.0	23.0	130	115	65-150	12	30	
Dichlorofluoromethane	ug/L	ND	20	20	21.6	21.5	108	108	68-127	0	30	
Diethyl ether (Ethyl ether)	ug/L	ND	20	20	20.5	20.2	103	101	71-125	2	30	
Ethylbenzene	ug/L	ND	20	20	22.2	22.7	111	114	75-125	2	30	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	23.2	22.7	116	114	75-147	2	30	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	23.1	23.7	115	119	75-125	3	30	
m&p-Xylene	ug/L	ND	40	40	46.2	46.9	115	117	67-125	1	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	20.7	21.0	104	105	75-125	1	30	
Methylene Chloride	ug/L	ND	20	20	19.5	19.5	98	97	75-125	0	30	
n-Butylbenzene	ug/L	ND	20	20	23.0	24.5	115	122	70-135	6	30	
n-Propylbenzene	ug/L	ND	20	20	21.9	22.9	109	115	70-131	5	30	
Naphthalene	ug/L	ND	20	20	22.7	23.5	114	117	66-127	3	30	
o-Xylene	ug/L	ND	20	20	22.5	22.4	112	112	72-125	0	30	
p-Isopropyltoluene	ug/L	ND	20	20	22.0	23.3	110	116	71-126	6	30	
sec-Butylbenzene	ug/L	ND	20	20	23.3	24.1	117	121	75-127	3	30	
Styrene	ug/L	ND	20	20	22.0	22.5	110	112	30-134	2	30	
tert-Butylbenzene	ug/L	ND	20	20	22.8	23.3	114	117	75-125	2	30	
Tetrachloroethene	ug/L	33.5	20	20	52.9	53.8	97	101	74-125	2	30	
Tetrahydrofuran	ug/L	ND	200	200	208	214	104	107	65-125	2	30	
Toluene	ug/L	ND	20	20	21.6	22.0	108	110	75-125	2	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	22.2	21.5	111	107	72-125	3	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	21.8	21.8	109	109	63-125	0	30	
Trichloroethene	ug/L	6.0	20	20	26.9	27.4	104	107	58-127	2	30	
Trichlorofluoromethane	ug/L	ND	20	20	24.3	22.7	122	113	73-150	7	30	
Vinyl chloride	ug/L	ND	20	20	22.5	21.6	113	108	75-134	4	30	
Xylene (Total)	ug/L	ND	60	60	68.6	69.3	114	115	75-125	1	30	
1,2-Dichloroethane-d4 (S)	%						102	100	75-125			
4-Bromofluorobenzene (S)	%						105	104	75-125			
Dibromofluoromethane (S)	%						97	102	75-125			
Toluene-d8 (S)	%						102	101	75-125			

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(612)607-1700

QUALITY CONTROL DATA

Project: CRC Rochester
Pace Project No.: 10113598

QC Batch: WETA/8497 Analysis Method: ASTM D516-02
QC Batch Method: ASTM D516-02 Analysis Description: ASTM D516-9002 Sulfate Water
Associated Lab Samples: 10113598001, 10113598002, 10113598003, 10113598004, 10113598005

METHOD BLANK: 693209 Matrix: Water
Associated Lab Samples: 10113598001, 10113598002, 10113598003, 10113598004, 10113598005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	2.5	10/07/09 16:01	

LABORATORY CONTROL SAMPLE: 693210

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	7.5	7.0	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 693211 693212

Parameter	Units	10113141002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	20.1	20	20	35.7	36.0	78	79	80-120	1	30	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 693216 693217

Parameter	Units	10113704002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	45.4	20	20	58.0	59.8	63	72	80-120	3	30	M0

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QUALITY CONTROL DATA

Project: CRC Rochester
Pace Project No.: 10113598

QC Batch: MPRP/17563 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 MET Dissolved
Associated Lab Samples: 10113598001, 10113598002, 10113598003, 10113598004, 10113598005

METHOD BLANK: 690643 Matrix: Water
Associated Lab Samples: 10113598001, 10113598002, 10113598003, 10113598004, 10113598005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	ND	50.0	10/04/09 09:10	

LABORATORY CONTROL SAMPLE: 690644

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	10000	8620	86	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 690645 690646

Parameter	Units	10113331001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Dissolved	ug/L	184	10000	10000	9410	9550	92	94	70-130	2	30	

MATRIX SPIKE SAMPLE: 690647

Parameter	Units	10113784006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	ND	10000	9170	92	70-130	

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QUALITY CONTROL DATA

Project: CRC Rochester
Pace Project No.: 10113598

QC Batch: AIR/9196 Analysis Method: RSK 175
QC Batch Method: RSK 175 Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 10113598001, 10113598002, 10113598003, 10113598004, 10113598005

METHOD BLANK: 692091 Matrix: Water
Associated Lab Samples: 10113598001, 10113598002, 10113598003, 10113598004, 10113598005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	ND	10.0	10/05/09 19:02	

LABORATORY CONTROL SAMPLE & LCSD: 692092 692093

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	60.7	62.7	55.1	103	91	70-130	13	30	

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QUALIFIERS

Project: CRC Rochester
Pace Project No.: 10113598

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

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

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay
PASI-M	Pace Analytical Services - Minneapolis

BATCH QUALIFIERS

Batch: MSV/13164

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
pH	Post-analysis pH measurement indicates insufficient VOA sample preservation.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC Rochester
Pace Project No.: 10113598

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10113598001	**DPE-5**	SM 5310C	WETA/4846		
10113598002	**DPE-6**	SM 5310C	WETA/4846		
10113598003	**DPE-7**	SM 5310C	WETA/4846		
10113598004	**DPE-8**	SM 5310C	WETA/4846		
10113598005	**MW-19**	SM 5310C	WETA/4846		
10113598001	**DPE-5**	EPA 300.0	WETA/4849		
10113598002	**DPE-6**	EPA 300.0	WETA/4849		
10113598003	**DPE-7**	EPA 300.0	WETA/4849		
10113598004	**DPE-8**	EPA 300.0	WETA/4849		
10113598005	**MW-19**	EPA 300.0	WETA/4849		
10113598001	**DPE-5**	SM 4500-S F (2000)	WET/4658		
10113598002	**DPE-6**	SM 4500-S F (2000)	WET/4658		
10113598003	**DPE-7**	SM 4500-S F (2000)	WET/4658		
10113598004	**DPE-8**	SM 4500-S F (2000)	WET/4658		
10113598005	**MW-19**	SM 4500-S F (2000)	WET/4658		
10113598001	**DPE-5**	EPA 8260	MSV/13158		
10113598003	**DPE-7**	EPA 8260	MSV/13158		
10113598005	**MW-19**	EPA 8260	MSV/13158		
10113598001	**DPE-5**	EPA 200.7	MPRP/17563	EPA 200.7	ICP/7964
10113598002	**DPE-6**	EPA 200.7	MPRP/17563	EPA 200.7	ICP/7964
10113598003	**DPE-7**	EPA 200.7	MPRP/17563	EPA 200.7	ICP/7964
10113598004	**DPE-8**	EPA 200.7	MPRP/17563	EPA 200.7	ICP/7964
10113598005	**MW-19**	EPA 200.7	MPRP/17563	EPA 200.7	ICP/7964
10113598002	**DPE-6**	EPA 8260	MSV/13164		
10113598004	**DPE-8**	EPA 8260	MSV/13164		
10113598001	**DPE-5**	RSK 175	AIR/9196		
10113598002	**DPE-6**	RSK 175	AIR/9196		
10113598003	**DPE-7**	RSK 175	AIR/9196		
10113598004	**DPE-8**	RSK 175	AIR/9196		
10113598005	**MW-19**	RSK 175	AIR/9196		
10113598001	**DPE-5**	ASTM D516-02	WETA/8497		
10113598002	**DPE-6**	ASTM D516-02	WETA/8497		
10113598003	**DPE-7**	ASTM D516-02	WETA/8497		
10113598004	**DPE-8**	ASTM D516-02	WETA/8497		
10113598005	**MW-19**	ASTM D516-02	WETA/8497		

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CHAIN-OF-CUSTODY / Analytical Request Document

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

RUSH!

MPls

10113-98

Page: of

1257451

Section A
Required Client Information:

Company: Landmark
Address:
Email To:
Phone: Fax:
Requested Due Date/TAT:

Section B
Required Project Information:

Report To: Jason Skramstad
Copy To:
Purchase Order No.:
Project Name:
Project Number: CRC

Section C
Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location
STATE:

Section D
Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes
MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	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	Analysis Test Y/N: Methane 8260 Fe Sulfate	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	DPE-5			9/24/06	04:00				3									✓ ✓ ✓		001
2	DPE-6				04:30				3									✓ ✓ ✓		002
3	DPE-7				05:00				3									✓ ✓ ✓		003
4	DPE-8				05:30				3									✓ ✓ ✓		004
5	MW-19				11:40				3									✓ ✓ ✓		005
6																				
7																				
8																				
9																				
10																				
11																				
12																				

Filter N Lab

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
				Pace	9/24/06	1618	5.2	Y	N	Y

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ORIGINAL

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

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

Pace Analytical

Client Name: Landmark **Project #** 1013598

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

Tracking #: _____

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

Project #:
PM: Due Date:
PM: Name:

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

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

Cooler Temperature 5.2 **Biological Tissue is Frozen:** Yes No

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

Date and initials of person examining contents: 9/29/09 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 ✓ 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: CTM **Date:** 9/29/09

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

From: Jason Skramstad <jskramstad@landmarkenv.com>
To: "carolynne.trout@pacelabs.com" <carolynne.trout@pacelabs.com>
Date: 11/19/2009 3:23 PM
Subject: RE: Samples Received, "CRC CITY OF ROCHESTER" Pace Project #10117287

Carolynne,

I just noticed that I need to have you revise the "Date Collected" in report #10113598. The date collected was 9/28/09, not 9/24/09, for all of the samples on this report.

Thanks.

Jason

-----Original Message-----
From: carolynne.trout@pacelabs.com [mailto:carolynne.trout@pacelabs.com]
Sent: Thursday, November 19, 2009 9:54 AM
To: Jason Skramstad
Subject: Samples Received, "CRC CITY OF ROCHESTER" Pace Project #10117287

Thank you for submitting your samples to Pace Analytical Services! We appreciate your business.

Samples have been received and logged by Pace Analytical Services, Inc.

Please review the attached Sample Acknowledgment Form (SAF) for a summary description of the project as received and logged.

If you notice any discrepancies, please contact your project manager as soon as possible.

Sincerely,
Carolynne Trout
carolynne.trout@pacelabs.com

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

October 12, 2009

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

RE: Project: CRC CITY OF ROCHESTER
Pace Project No.: 10113784

Dear Mr. Skramstad:
Enclosed are the analytical results for sample(s) received by the laboratory on October 01, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Carolynne Trout

Carolynne Trout

carolynne.trout@pacelabs.com
Project Manager

Enclosures

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

CERTIFICATIONS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10113784

Minnesota Certification IDs

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

Green Bay Certification IDs

New York Certification #: 11887
1241 Bellevue Street Green Bay, WI 54302
Louisiana Certification #: 04168
Kentucky Certification #: 83
Kentucky Certification #: 82
Illinois Certification #: 200050
Florida/NELAP Certification #: E87948
California Certification #: 09268CA
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
North Dakota Certification #: R-150
North Carolina Certification #: 503
New York Certification #: 11888
Minnesota Certification #: 055-999-334

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.: 10113784

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10113784001	**MW14**	Water	10/01/09 04:00	10/01/09 13:15
10113784002	**MW15**	Water	10/01/09 04:20	10/01/09 13:15
10113784003	**MW16**	Water	10/01/09 04:25	10/01/09 13:15
10113784004	**MW17**	Water	10/01/09 05:20	10/01/09 13:15
10113784005	**MW18**	Water	10/01/09 05:46	10/01/09 13:15
10113784006	**MW20**	Water	10/01/09 06:00	10/01/09 13:15
10113784007	**TRIP BLANK**	Water		10/01/09 13:15

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SAMPLE ANALYTE COUNT

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10113784

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10113784001	**MW14**	ASTM D516-02	ACH	1	PASI-M
		EPA 200.7	TEM	1	PASI-M
		EPA 300.0	DDY	1	PASI-G
		EPA 8260	DRE	73	PASI-M
		RSK 175	CJR	1	PASI-M
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	JMM	1	PASI-G
10113784002	**MW15**	ASTM D516-02	ACH	1	PASI-M
		EPA 200.7	TEM	1	PASI-M
		EPA 300.0	DDY	1	PASI-G
		EPA 8260	DRE	73	PASI-M
		RSK 175	CJR	1	PASI-M
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	JMM	1	PASI-G
10113784003	**MW16**	ASTM D516-02	ACH	1	PASI-M
		EPA 200.7	TEM	1	PASI-M
		EPA 300.0	DDY	1	PASI-G
		EPA 8260	DRE	73	PASI-M
		RSK 175	CJR	1	PASI-M
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	JMM	1	PASI-G
10113784004	**MW17**	ASTM D516-02	ACH	1	PASI-M
		EPA 200.7	TEM	1	PASI-M
		EPA 300.0	DDY	1	PASI-G
		EPA 8260	DRE	73	PASI-M
		RSK 175	CJR	1	PASI-M
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	JMM	1	PASI-G
10113784005	**MW18**	ASTM D516-02	ACH	1	PASI-M
		EPA 200.7	TEM	1	PASI-M
		EPA 300.0	DDY	1	PASI-G
		EPA 8260	DRE	73	PASI-M
		RSK 175	CJR	1	PASI-M
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	JMM	1	PASI-G
10113784006	**MW20**	ASTM D516-02	ACH	1	PASI-M
		EPA 200.7	TEM	1	PASI-M

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SAMPLE ANALYTE COUNT

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10113784

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0	DDY	1	PASI-G
		EPA 8260	DRE	73	PASI-M
		RSK 175	CJR	1	PASI-M
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	JMM	1	PASI-G
10113784007	**TRIP BLANK**	EPA 8260	DRE	73	PASI-M

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10113784

Sample: MW14 **Lab ID: 10113784001** Collected: 10/01/09 04:00 Received: 10/01/09 13:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Methane	**10.1**	ug/L	10.0	1		10/06/09 16:14	74-82-8	
200.7 MET ICP, Lab Filtered	Analytical Method: EPA 200.7		Preparation Method: EPA 200.7					
Iron, Dissolved	ND	ug/L	50.0	1	10/02/09 17:56	10/04/09 11:19	7439-89-6	
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		10/02/09 21:36	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		10/02/09 21:36	107-05-1	
Benzene	ND	ug/L	1.0	1		10/02/09 21:36	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/02/09 21:36	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/02/09 21:36	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/02/09 21:36	75-27-4	
Bromoform	ND	ug/L	8.0	1		10/02/09 21:36	75-25-2	
Bromomethane	ND	ug/L	4.0	1		10/02/09 21:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		10/02/09 21:36	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		10/02/09 21:36	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		10/02/09 21:36	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/02/09 21:36	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		10/02/09 21:36	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/02/09 21:36	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/02/09 21:36	75-00-3	
Chloroform	**3.7**	ug/L	1.0	1		10/02/09 21:36	67-66-3	
Chloromethane	ND	ug/L	4.0	1		10/02/09 21:36	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		10/02/09 21:36	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/02/09 21:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		10/02/09 21:36	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/02/09 21:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/02/09 21:36	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		10/02/09 21:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/02/09 21:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/02/09 21:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/02/09 21:36	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/02/09 21:36	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/02/09 21:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/02/09 21:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/02/09 21:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/02/09 21:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/02/09 21:36	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		10/02/09 21:36	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/02/09 21:36	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/02/09 21:36	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/02/09 21:36	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/02/09 21:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		10/02/09 21:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		10/02/09 21:36	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		10/02/09 21:36	60-29-7	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10113784

Sample: MW14 **Lab ID: 10113784001** Collected: 10/01/09 04:00 Received: 10/01/09 13:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Ethylbenzene	ND	ug/L	1.0	1		10/02/09 21:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		10/02/09 21:36	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/02/09 21:36	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		10/02/09 21:36	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		10/02/09 21:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		10/02/09 21:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/02/09 21:36	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		10/02/09 21:36	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		10/02/09 21:36	103-65-1	
Styrene	ND	ug/L	1.0	1		10/02/09 21:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/02/09 21:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/02/09 21:36	79-34-5	
Tetrachloroethene	**4.2**	ug/L	1.0	1		10/02/09 21:36	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		10/02/09 21:36	109-99-9	
Toluene	ND	ug/L	1.0	1		10/02/09 21:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		10/02/09 21:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/02/09 21:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/02/09 21:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/02/09 21:36	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/02/09 21:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/02/09 21:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/02/09 21:36	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		10/02/09 21:36	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/02/09 21:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/02/09 21:36	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		10/02/09 21:36	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/02/09 21:36	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		10/02/09 21:36	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		10/02/09 21:36	95-47-6	
Dibromofluoromethane (S)	105	%	75-125	1		10/02/09 21:36	1868-53-7	
1,2-Dichloroethane-d4 (S)	119	%	75-125	1		10/02/09 21:36	17060-07-0	
Toluene-d8 (S)	96	%	75-125	1		10/02/09 21:36	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125	1		10/02/09 21:36	460-00-4	
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)							
Sulfide	ND	mg/L	5.0	1		10/02/09 09:30		
300.0 IC Anions	Analytical Method: EPA 300.0							
Nitrate as N	**1.6**	mg/L	0.40	1		10/02/09 19:47	14797-55-8	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C							
Dissolved Organic Carbon	**69.2**	mg/L	10.0	5		10/06/09 09:02		M0
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-02							
Sulfate	**146**	mg/L	12.5	5		10/09/09 10:47	14808-79-8	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10113784

Sample: MW15 **Lab ID: 10113784002** Collected: 10/01/09 04:20 Received: 10/01/09 13:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Methane	ND	ug/L	10.0	1		10/06/09 16:40	74-82-8	
200.7 MET ICP, Lab Filtered	Analytical Method: EPA 200.7		Preparation Method: EPA 200.7					
Iron, Dissolved	ND	ug/L	50.0	1	10/02/09 17:56	10/04/09 11:26	7439-89-6	
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		10/02/09 21:58	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		10/02/09 21:58	107-05-1	
Benzene	ND	ug/L	1.0	1		10/02/09 21:58	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/02/09 21:58	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/02/09 21:58	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/02/09 21:58	75-27-4	
Bromoform	ND	ug/L	8.0	1		10/02/09 21:58	75-25-2	
Bromomethane	ND	ug/L	4.0	1		10/02/09 21:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		10/02/09 21:58	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		10/02/09 21:58	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		10/02/09 21:58	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/02/09 21:58	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		10/02/09 21:58	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/02/09 21:58	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/02/09 21:58	75-00-3	
Chloroform	**2.2**	ug/L	1.0	1		10/02/09 21:58	67-66-3	
Chloromethane	ND	ug/L	4.0	1		10/02/09 21:58	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		10/02/09 21:58	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/02/09 21:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		10/02/09 21:58	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/02/09 21:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/02/09 21:58	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		10/02/09 21:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/02/09 21:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/02/09 21:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/02/09 21:58	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/02/09 21:58	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/02/09 21:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/02/09 21:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/02/09 21:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/02/09 21:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/02/09 21:58	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		10/02/09 21:58	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/02/09 21:58	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/02/09 21:58	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/02/09 21:58	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/02/09 21:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		10/02/09 21:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		10/02/09 21:58	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		10/02/09 21:58	60-29-7	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10113784

Sample: MW15 **Lab ID: 10113784002** Collected: 10/01/09 04:20 Received: 10/01/09 13:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Ethylbenzene	ND	ug/L	1.0	1		10/02/09 21:58	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		10/02/09 21:58	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/02/09 21:58	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		10/02/09 21:58	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		10/02/09 21:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		10/02/09 21:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/02/09 21:58	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		10/02/09 21:58	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		10/02/09 21:58	103-65-1	
Styrene	ND	ug/L	1.0	1		10/02/09 21:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/02/09 21:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/02/09 21:58	79-34-5	
Tetrachloroethene	**15.7**	ug/L	1.0	1		10/02/09 21:58	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		10/02/09 21:58	109-99-9	
Toluene	ND	ug/L	1.0	1		10/02/09 21:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		10/02/09 21:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/02/09 21:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/02/09 21:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/02/09 21:58	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/02/09 21:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/02/09 21:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/02/09 21:58	96-18-4	
1,1,2-Trichlorotrifluoroethane	**6.4**	ug/L	1.0	1		10/02/09 21:58	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/02/09 21:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/02/09 21:58	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		10/02/09 21:58	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/02/09 21:58	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		10/02/09 21:58	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		10/02/09 21:58	95-47-6	
Dibromofluoromethane (S)	110	%	75-125	1		10/02/09 21:58	1868-53-7	
1,2-Dichloroethane-d4 (S)	118	%	75-125	1		10/02/09 21:58	17060-07-0	
Toluene-d8 (S)	96	%	75-125	1		10/02/09 21:58	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125	1		10/02/09 21:58	460-00-4	
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)							
Sulfide	ND	mg/L	5.0	1		10/02/09 09:30		
300.0 IC Anions	Analytical Method: EPA 300.0							
Nitrate as N	**0.58**	mg/L	0.40	1		10/02/09 20:01	14797-55-8	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C							
Dissolved Organic Carbon	**15.7**	mg/L	2.0	1		10/06/09 09:17		
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-02							
Sulfate	**99.9**	mg/L	12.5	5		10/09/09 10:47	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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.: 10113784

Sample: MW16 **Lab ID: 10113784003** Collected: 10/01/09 04:25 Received: 10/01/09 13:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Methane	ND	ug/L	10.0	1		10/06/09 17:06	74-82-8	
200.7 MET ICP, Lab Filtered	Analytical Method: EPA 200.7		Preparation Method: EPA 200.7					
Iron, Dissolved	ND	ug/L	50.0	1	10/02/09 17:56	10/04/09 11:33	7439-89-6	
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	10		10/03/09 02:34	67-64-1	
Allyl chloride	ND	ug/L	40.0	10		10/03/09 02:34	107-05-1	
Benzene	ND	ug/L	10.0	10		10/03/09 02:34	71-43-2	
Bromobenzene	ND	ug/L	10.0	10		10/03/09 02:34	108-86-1	
Bromochloromethane	ND	ug/L	10.0	10		10/03/09 02:34	74-97-5	
Bromodichloromethane	ND	ug/L	10.0	10		10/03/09 02:34	75-27-4	
Bromoform	ND	ug/L	80.0	10		10/03/09 02:34	75-25-2	
Bromomethane	ND	ug/L	40.0	10		10/03/09 02:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	40.0	10		10/03/09 02:34	78-93-3	
n-Butylbenzene	ND	ug/L	10.0	10		10/03/09 02:34	104-51-8	
sec-Butylbenzene	ND	ug/L	10.0	10		10/03/09 02:34	135-98-8	
tert-Butylbenzene	ND	ug/L	10.0	10		10/03/09 02:34	98-06-6	
Carbon tetrachloride	ND	ug/L	10.0	10		10/03/09 02:34	56-23-5	
Chlorobenzene	ND	ug/L	10.0	10		10/03/09 02:34	108-90-7	
Chloroethane	ND	ug/L	10.0	10		10/03/09 02:34	75-00-3	
Chloroform	ND	ug/L	10.0	10		10/03/09 02:34	67-66-3	
Chloromethane	ND	ug/L	40.0	10		10/03/09 02:34	74-87-3	
2-Chlorotoluene	ND	ug/L	10.0	10		10/03/09 02:34	95-49-8	
4-Chlorotoluene	ND	ug/L	10.0	10		10/03/09 02:34	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	40.0	10		10/03/09 02:34	96-12-8	
Dibromochloromethane	ND	ug/L	10.0	10		10/03/09 02:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		10/03/09 02:34	106-93-4	
Dibromomethane	ND	ug/L	10.0	10		10/03/09 02:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	10.0	10		10/03/09 02:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	10		10/03/09 02:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	10		10/03/09 02:34	106-46-7	
Dichlorodifluoromethane	ND	ug/L	10.0	10		10/03/09 02:34	75-71-8	
1,1-Dichloroethane	ND	ug/L	10.0	10		10/03/09 02:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	10.0	10		10/03/09 02:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	10.0	10		10/03/09 02:34	75-35-4	
cis-1,2-Dichloroethene	**24.0**	ug/L	10.0	10		10/03/09 02:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	10.0	10		10/03/09 02:34	156-60-5	
Dichlorofluoromethane	ND	ug/L	10.0	10		10/03/09 02:34	75-43-4	
1,2-Dichloropropane	ND	ug/L	10.0	10		10/03/09 02:34	78-87-5	
1,3-Dichloropropane	ND	ug/L	10.0	10		10/03/09 02:34	142-28-9	
2,2-Dichloropropane	ND	ug/L	10.0	10		10/03/09 02:34	594-20-7	
1,1-Dichloropropene	ND	ug/L	10.0	10		10/03/09 02:34	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	40.0	10		10/03/09 02:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	40.0	10		10/03/09 02:34	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	40.0	10		10/03/09 02:34	60-29-7	

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(612)607-1700

ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10113784

Sample: MW16 **Lab ID: 10113784003** Collected: 10/01/09 04:25 Received: 10/01/09 13:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Ethylbenzene	ND	ug/L	10.0	10		10/03/09 02:34	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	40.0	10		10/03/09 02:34	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	10.0	10		10/03/09 02:34	98-82-8	
p-Isopropyltoluene	ND	ug/L	10.0	10		10/03/09 02:34	99-87-6	
Methylene Chloride	ND	ug/L	40.0	10		10/03/09 02:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	40.0	10		10/03/09 02:34	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	10		10/03/09 02:34	1634-04-4	
Naphthalene	ND	ug/L	40.0	10		10/03/09 02:34	91-20-3	
n-Propylbenzene	ND	ug/L	10.0	10		10/03/09 02:34	103-65-1	
Styrene	ND	ug/L	10.0	10		10/03/09 02:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0	10		10/03/09 02:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		10/03/09 02:34	79-34-5	
Tetrachloroethene	**6890**	ug/L	100	100		10/03/09 02:11	127-18-4	
Tetrahydrofuran	ND	ug/L	100	10		10/03/09 02:34	109-99-9	
Toluene	ND	ug/L	10.0	10		10/03/09 02:34	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	10		10/03/09 02:34	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	10		10/03/09 02:34	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	10.0	10		10/03/09 02:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	10.0	10		10/03/09 02:34	79-00-5	
Trichloroethene	ND	ug/L	10.0	10		10/03/09 02:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	10		10/03/09 02:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	10.0	10		10/03/09 02:34	96-18-4	
1,1,2-Trichlorotrifluoroethane	**779**	ug/L	10.0	10		10/03/09 02:34	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	10.0	10		10/03/09 02:34	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	10.0	10		10/03/09 02:34	108-67-8	
Vinyl chloride	ND	ug/L	4.0	10		10/03/09 02:34	75-01-4	
Xylene (Total)	ND	ug/L	30.0	10		10/03/09 02:34	1330-20-7	
m&p-Xylene	ND	ug/L	20.0	10		10/03/09 02:34	1330-20-7	
o-Xylene	ND	ug/L	10.0	10		10/03/09 02:34	95-47-6	
Dibromofluoromethane (S)	96	%	75-125	10		10/03/09 02:34	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%	75-125	10		10/03/09 02:34	17060-07-0	
Toluene-d8 (S)	96	%	75-125	10		10/03/09 02:34	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125	10		10/03/09 02:34	460-00-4	
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)							
Sulfide	ND	mg/L	5.0	1		10/02/09 09:30		
300.0 IC Anions	Analytical Method: EPA 300.0							
Nitrate as N	**16.2**	mg/L	2.0	5		10/05/09 11:01	14797-55-8	2M,H1
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C							
Dissolved Organic Carbon	**49.1**	mg/L	2.0	1		10/06/09 09:25		
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-02							
Sulfate	**258**	mg/L	25.0	10		10/09/09 10:59	14808-79-8	

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(612)607-1700

ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10113784

Sample: MW17 **Lab ID: 10113784004** Collected: 10/01/09 05:20 Received: 10/01/09 13:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Methane	ND	ug/L	10.0	1		10/06/09 20:30	74-82-8	
200.7 MET ICP, Lab Filtered	Analytical Method: EPA 200.7		Preparation Method: EPA 200.7					
Iron, Dissolved	ND	ug/L	50.0	1	10/02/09 17:56	10/04/09 11:40	7439-89-6	
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	20.0	2		10/03/09 00:16	67-64-1	
Allyl chloride	ND	ug/L	8.0	2		10/03/09 00:16	107-05-1	
Benzene	ND	ug/L	2.0	2		10/03/09 00:16	71-43-2	
Bromobenzene	ND	ug/L	2.0	2		10/03/09 00:16	108-86-1	
Bromochloromethane	ND	ug/L	2.0	2		10/03/09 00:16	74-97-5	
Bromodichloromethane	ND	ug/L	2.0	2		10/03/09 00:16	75-27-4	
Bromoform	ND	ug/L	16.0	2		10/03/09 00:16	75-25-2	
Bromomethane	ND	ug/L	8.0	2		10/03/09 00:16	74-83-9	
2-Butanone (MEK)	ND	ug/L	8.0	2		10/03/09 00:16	78-93-3	
n-Butylbenzene	ND	ug/L	2.0	2		10/03/09 00:16	104-51-8	
sec-Butylbenzene	ND	ug/L	2.0	2		10/03/09 00:16	135-98-8	
tert-Butylbenzene	ND	ug/L	2.0	2		10/03/09 00:16	98-06-6	
Carbon tetrachloride	ND	ug/L	2.0	2		10/03/09 00:16	56-23-5	
Chlorobenzene	ND	ug/L	2.0	2		10/03/09 00:16	108-90-7	
Chloroethane	ND	ug/L	2.0	2		10/03/09 00:16	75-00-3	
Chloroform	**2.4**	ug/L	2.0	2		10/03/09 00:16	67-66-3	
Chloromethane	ND	ug/L	8.0	2		10/03/09 00:16	74-87-3	
2-Chlorotoluene	ND	ug/L	2.0	2		10/03/09 00:16	95-49-8	
4-Chlorotoluene	ND	ug/L	2.0	2		10/03/09 00:16	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	8.0	2		10/03/09 00:16	96-12-8	
Dibromochloromethane	ND	ug/L	2.0	2		10/03/09 00:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	2		10/03/09 00:16	106-93-4	
Dibromomethane	ND	ug/L	2.0	2		10/03/09 00:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	2.0	2		10/03/09 00:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2.0	2		10/03/09 00:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2.0	2		10/03/09 00:16	106-46-7	
Dichlorodifluoromethane	ND	ug/L	2.0	2		10/03/09 00:16	75-71-8	
1,1-Dichloroethane	ND	ug/L	2.0	2		10/03/09 00:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	2.0	2		10/03/09 00:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	2.0	2		10/03/09 00:16	75-35-4	
cis-1,2-Dichloroethene	**4.8**	ug/L	2.0	2		10/03/09 00:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	2.0	2		10/03/09 00:16	156-60-5	
Dichlorofluoromethane	ND	ug/L	2.0	2		10/03/09 00:16	75-43-4	
1,2-Dichloropropane	ND	ug/L	2.0	2		10/03/09 00:16	78-87-5	
1,3-Dichloropropane	ND	ug/L	2.0	2		10/03/09 00:16	142-28-9	
2,2-Dichloropropane	ND	ug/L	2.0	2		10/03/09 00:16	594-20-7	
1,1-Dichloropropene	ND	ug/L	2.0	2		10/03/09 00:16	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	8.0	2		10/03/09 00:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	8.0	2		10/03/09 00:16	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	8.0	2		10/03/09 00:16	60-29-7	

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1700 Elm Street - Suite 200
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(612)607-1700

ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10113784

Sample: MW17 **Lab ID: 10113784004** Collected: 10/01/09 05:20 Received: 10/01/09 13:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Ethylbenzene	ND	ug/L	2.0	2		10/03/09 00:16	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	8.0	2		10/03/09 00:16	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	2.0	2		10/03/09 00:16	98-82-8	
p-Isopropyltoluene	ND	ug/L	2.0	2		10/03/09 00:16	99-87-6	
Methylene Chloride	ND	ug/L	8.0	2		10/03/09 00:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	8.0	2		10/03/09 00:16	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	2.0	2		10/03/09 00:16	1634-04-4	
Naphthalene	ND	ug/L	8.0	2		10/03/09 00:16	91-20-3	
n-Propylbenzene	ND	ug/L	2.0	2		10/03/09 00:16	103-65-1	
Styrene	ND	ug/L	2.0	2		10/03/09 00:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	2.0	2		10/03/09 00:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.0	2		10/03/09 00:16	79-34-5	
Tetrachloroethene	**803**	ug/L	10.0	10		10/06/09 08:51	127-18-4	
Tetrahydrofuran	ND	ug/L	20.0	2		10/03/09 00:16	109-99-9	
Toluene	ND	ug/L	2.0	2		10/03/09 00:16	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	2		10/03/09 00:16	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	2		10/03/09 00:16	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	2.0	2		10/03/09 00:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	2.0	2		10/03/09 00:16	79-00-5	
Trichloroethene	ND	ug/L	2.0	2		10/03/09 00:16	79-01-6	
Trichlorofluoromethane	ND	ug/L	2.0	2		10/03/09 00:16	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.0	2		10/03/09 00:16	96-18-4	
1,1,2-Trichlorotrifluoroethane	**249**	ug/L	2.0	2		10/03/09 00:16	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	2.0	2		10/03/09 00:16	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	2.0	2		10/03/09 00:16	108-67-8	
Vinyl chloride	ND	ug/L	0.80	2		10/03/09 00:16	75-01-4	
Xylene (Total)	ND	ug/L	6.0	2		10/03/09 00:16	1330-20-7	
m&p-Xylene	ND	ug/L	4.0	2		10/03/09 00:16	1330-20-7	
o-Xylene	ND	ug/L	2.0	2		10/03/09 00:16	95-47-6	
Dibromofluoromethane (S)	100	%	75-125	2		10/03/09 00:16	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	75-125	2		10/03/09 00:16	17060-07-0	
Toluene-d8 (S)	99	%	75-125	2		10/03/09 00:16	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125	2		10/03/09 00:16	460-00-4	
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)							
Sulfide	ND	mg/L	5.0	1		10/02/09 09:30		
300.0 IC Anions	Analytical Method: EPA 300.0							
Nitrate as N	**3.9**	mg/L	0.40	1		10/02/09 20:29	14797-55-8	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C							
Dissolved Organic Carbon	**9.1**	mg/L	2.0	1		10/06/09 09:31		
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-02							
Sulfate	**159**	mg/L	25.0	10		10/09/09 17:53	14808-79-8	M0

REPORT OF LABORATORY ANALYSIS

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.: 10113784

Sample: MW18 **Lab ID: 10113784005** Collected: 10/01/09 05:46 Received: 10/01/09 13:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Methane	ND	ug/L	10.0	1		10/06/09 20:55	74-82-8	
200.7 MET ICP, Lab Filtered	Analytical Method: EPA 200.7		Preparation Method: EPA 200.7					
Iron, Dissolved	**88.3**	ug/L	50.0	1	10/02/09 17:56	10/04/09 11:47	7439-89-6	
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		10/06/09 10:23	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		10/06/09 10:23	107-05-1	
Benzene	ND	ug/L	1.0	1		10/06/09 10:23	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/06/09 10:23	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/06/09 10:23	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/06/09 10:23	75-27-4	
Bromoform	ND	ug/L	8.0	1		10/06/09 10:23	75-25-2	
Bromomethane	ND	ug/L	4.0	1		10/06/09 10:23	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		10/06/09 10:23	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		10/06/09 10:23	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		10/06/09 10:23	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/06/09 10:23	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		10/06/09 10:23	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/06/09 10:23	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/06/09 10:23	75-00-3	
Chloroform	ND	ug/L	1.0	1		10/06/09 10:23	67-66-3	
Chloromethane	ND	ug/L	4.0	1		10/06/09 10:23	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		10/06/09 10:23	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/06/09 10:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		10/06/09 10:23	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/06/09 10:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/06/09 10:23	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		10/06/09 10:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/06/09 10:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/06/09 10:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/06/09 10:23	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/06/09 10:23	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/06/09 10:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/06/09 10:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/06/09 10:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/06/09 10:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/06/09 10:23	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		10/06/09 10:23	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/06/09 10:23	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/06/09 10:23	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/06/09 10:23	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/06/09 10:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		10/06/09 10:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		10/06/09 10:23	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		10/06/09 10:23	60-29-7	

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(612)607-1700

ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10113784

Sample: MW18 **Lab ID: 10113784005** Collected: 10/01/09 05:46 Received: 10/01/09 13:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Ethylbenzene	ND	ug/L	1.0	1		10/06/09 10:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		10/06/09 10:23	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/06/09 10:23	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		10/06/09 10:23	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		10/06/09 10:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		10/06/09 10:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/06/09 10:23	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		10/06/09 10:23	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		10/06/09 10:23	103-65-1	
Styrene	ND	ug/L	1.0	1		10/06/09 10:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/06/09 10:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/06/09 10:23	79-34-5	
Tetrachloroethene	**250**	ug/L	1.0	1		10/06/09 10:23	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		10/06/09 10:23	109-99-9	
Toluene	ND	ug/L	1.0	1		10/06/09 10:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		10/06/09 10:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/06/09 10:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/06/09 10:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/06/09 10:23	79-00-5	
Trichloroethene	**2.6**	ug/L	1.0	1		10/06/09 10:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/06/09 10:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/06/09 10:23	96-18-4	
1,1,2-Trichlorotrifluoroethane	**2.7**	ug/L	1.0	1		10/06/09 10:23	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/06/09 10:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/06/09 10:23	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		10/06/09 10:23	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/06/09 10:23	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		10/06/09 10:23	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		10/06/09 10:23	95-47-6	
Dibromofluoromethane (S)	106	%	75-125	1		10/06/09 10:23	1868-53-7	
1,2-Dichloroethane-d4 (S)	113	%	75-125	1		10/06/09 10:23	17060-07-0	
Toluene-d8 (S)	92	%	75-125	1		10/06/09 10:23	2037-26-5	
4-Bromofluorobenzene (S)	93	%	75-125	1		10/06/09 10:23	460-00-4	
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)							
Sulfide	ND	mg/L	5.0	1		10/02/09 09:30		
300.0 IC Anions	Analytical Method: EPA 300.0							
Nitrate as N	ND	mg/L	0.40	1		10/02/09 20:43	14797-55-8	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C							
Dissolved Organic Carbon	**5.4**	mg/L	2.0	1		10/06/09 09:34		
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-02							
Sulfate	**110**	mg/L	12.5	5		10/09/09 17:42	14808-79-8	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10113784

Sample: MW20 **Lab ID: 10113784006** Collected: 10/01/09 06:00 Received: 10/01/09 13:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Methane	**274**	ug/L	10.0	1		10/06/09 21:21	74-82-8	
200.7 MET ICP, Lab Filtered	Analytical Method: EPA 200.7		Preparation Method: EPA 200.7					
Iron, Dissolved	ND	ug/L	50.0	1	10/02/09 17:56	10/04/09 11:52	7439-89-6	
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		10/06/09 10:46	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		10/06/09 10:46	107-05-1	
Benzene	ND	ug/L	1.0	1		10/06/09 10:46	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/06/09 10:46	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/06/09 10:46	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/06/09 10:46	75-27-4	
Bromoform	ND	ug/L	8.0	1		10/06/09 10:46	75-25-2	
Bromomethane	ND	ug/L	4.0	1		10/06/09 10:46	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		10/06/09 10:46	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		10/06/09 10:46	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		10/06/09 10:46	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/06/09 10:46	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		10/06/09 10:46	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/06/09 10:46	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/06/09 10:46	75-00-3	
Chloroform	ND	ug/L	1.0	1		10/06/09 10:46	67-66-3	
Chloromethane	ND	ug/L	4.0	1		10/06/09 10:46	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		10/06/09 10:46	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/06/09 10:46	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		10/06/09 10:46	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/06/09 10:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/06/09 10:46	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		10/06/09 10:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/06/09 10:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/06/09 10:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/06/09 10:46	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/06/09 10:46	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/06/09 10:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/06/09 10:46	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/06/09 10:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/06/09 10:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/06/09 10:46	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		10/06/09 10:46	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/06/09 10:46	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/06/09 10:46	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/06/09 10:46	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/06/09 10:46	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		10/06/09 10:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		10/06/09 10:46	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		10/06/09 10:46	60-29-7	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10113784

Sample: MW20 **Lab ID: 10113784006** Collected: 10/01/09 06:00 Received: 10/01/09 13:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Ethylbenzene	ND	ug/L	1.0	1		10/06/09 10:46	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		10/06/09 10:46	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/06/09 10:46	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		10/06/09 10:46	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		10/06/09 10:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		10/06/09 10:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/06/09 10:46	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		10/06/09 10:46	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		10/06/09 10:46	103-65-1	
Styrene	ND	ug/L	1.0	1		10/06/09 10:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/06/09 10:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/06/09 10:46	79-34-5	
Tetrachloroethene	**713**	ug/L	5.0	5		10/03/09 01:02	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		10/06/09 10:46	109-99-9	
Toluene	ND	ug/L	1.0	1		10/06/09 10:46	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		10/06/09 10:46	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/06/09 10:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/06/09 10:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/06/09 10:46	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/06/09 10:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/06/09 10:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/06/09 10:46	96-18-4	
1,1,2-Trichlorotrifluoroethane	**33.5**	ug/L	1.0	1		10/06/09 10:46	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/06/09 10:46	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/06/09 10:46	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		10/06/09 10:46	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/06/09 10:46	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		10/06/09 10:46	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		10/06/09 10:46	95-47-6	
Dibromofluoromethane (S)	103	%	75-125	1		10/06/09 10:46	1868-53-7	
1,2-Dichloroethane-d4 (S)	116	%	75-125	1		10/06/09 10:46	17060-07-0	
Toluene-d8 (S)	95	%	75-125	1		10/06/09 10:46	2037-26-5	
4-Bromofluorobenzene (S)	95	%	75-125	1		10/06/09 10:46	460-00-4	
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)							
Sulfide	ND	mg/L	5.0	1		10/02/09 09:30		
300.0 IC Anions	Analytical Method: EPA 300.0							
Nitrate as N	**8.9**	mg/L	0.40	1		10/02/09 20:57	14797-55-8	M0
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C							
Dissolved Organic Carbon	**20.3**	mg/L	2.0	1		10/06/09 10:02		
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-02							
Sulfate	**139**	mg/L	12.5	5		10/09/09 17:53	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10113784

Sample: TRIP BLANK **Lab ID: 10113784007** Collected: Received: 10/01/09 13:15 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		10/02/09 19:41	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		10/02/09 19:41	107-05-1	
Benzene	ND	ug/L	1.0	1		10/02/09 19:41	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/02/09 19:41	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/02/09 19:41	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/02/09 19:41	75-27-4	
Bromoform	ND	ug/L	8.0	1		10/02/09 19:41	75-25-2	
Bromomethane	ND	ug/L	4.0	1		10/02/09 19:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		10/02/09 19:41	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		10/02/09 19:41	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		10/02/09 19:41	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/02/09 19:41	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		10/02/09 19:41	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/02/09 19:41	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/02/09 19:41	75-00-3	
Chloroform	ND	ug/L	1.0	1		10/02/09 19:41	67-66-3	
Chloromethane	ND	ug/L	4.0	1		10/02/09 19:41	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		10/02/09 19:41	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/02/09 19:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		10/02/09 19:41	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/02/09 19:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/02/09 19:41	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		10/02/09 19:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/02/09 19:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/02/09 19:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/02/09 19:41	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/02/09 19:41	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/02/09 19:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/02/09 19:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/02/09 19:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/02/09 19:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/02/09 19:41	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		10/02/09 19:41	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/02/09 19:41	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/02/09 19:41	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/02/09 19:41	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/02/09 19:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		10/02/09 19:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		10/02/09 19:41	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		10/02/09 19:41	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		10/02/09 19:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		10/02/09 19:41	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/02/09 19:41	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		10/02/09 19:41	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		10/02/09 19:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		10/02/09 19:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/02/09 19:41	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10113784

Sample: TRIP BLANK **Lab ID: 10113784007** Collected: Received: 10/01/09 13:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Naphthalene	ND	ug/L	4.0	1		10/02/09 19:41	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		10/02/09 19:41	103-65-1	
Styrene	ND	ug/L	1.0	1		10/02/09 19:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/02/09 19:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/02/09 19:41	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/02/09 19:41	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		10/02/09 19:41	109-99-9	
Toluene	ND	ug/L	1.0	1		10/02/09 19:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		10/02/09 19:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/02/09 19:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/02/09 19:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/02/09 19:41	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/02/09 19:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/02/09 19:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/02/09 19:41	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		10/02/09 19:41	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/02/09 19:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/02/09 19:41	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		10/02/09 19:41	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/02/09 19:41	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		10/02/09 19:41	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		10/02/09 19:41	95-47-6	
Dibromofluoromethane (S)	103	%	75-125	1		10/02/09 19:41	1868-53-7	
1,2-Dichloroethane-d4 (S)	112	%	75-125	1		10/02/09 19:41	17060-07-0	
Toluene-d8 (S)	99	%	75-125	1		10/02/09 19:41	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125	1		10/02/09 19:41	460-00-4	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10113784

QC Batch: MSV/13168 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 10113784001, 10113784002, 10113784003, 10113784004, 10113784005, 10113784006, 10113784007

METHOD BLANK: 691162 Matrix: Water
Associated Lab Samples: 10113784001, 10113784002, 10113784003, 10113784004, 10113784005, 10113784006, 10113784007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	10/02/09 18:32	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/02/09 18:32	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/02/09 18:32	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/02/09 18:32	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	10/02/09 18:32	
1,1-Dichloroethane	ug/L	ND	1.0	10/02/09 18:32	
1,1-Dichloroethene	ug/L	ND	1.0	10/02/09 18:32	
1,1-Dichloropropene	ug/L	ND	1.0	10/02/09 18:32	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	10/02/09 18:32	
1,2,3-Trichloropropane	ug/L	ND	1.0	10/02/09 18:32	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	10/02/09 18:32	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	10/02/09 18:32	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	10/02/09 18:32	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/02/09 18:32	
1,2-Dichlorobenzene	ug/L	ND	1.0	10/02/09 18:32	
1,2-Dichloroethane	ug/L	ND	1.0	10/02/09 18:32	
1,2-Dichloropropane	ug/L	ND	1.0	10/02/09 18:32	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	10/02/09 18:32	
1,3-Dichlorobenzene	ug/L	ND	1.0	10/02/09 18:32	
1,3-Dichloropropane	ug/L	ND	1.0	10/02/09 18:32	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/02/09 18:32	
2,2-Dichloropropane	ug/L	ND	1.0	10/02/09 18:32	
2-Butanone (MEK)	ug/L	ND	4.0	10/02/09 18:32	
2-Chlorotoluene	ug/L	ND	1.0	10/02/09 18:32	
4-Chlorotoluene	ug/L	ND	1.0	10/02/09 18:32	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	10/02/09 18:32	
Acetone	ug/L	ND	10.0	10/02/09 18:32	
Allyl chloride	ug/L	ND	4.0	10/02/09 18:32	
Benzene	ug/L	ND	1.0	10/02/09 18:32	
Bromobenzene	ug/L	ND	1.0	10/02/09 18:32	
Bromochloromethane	ug/L	ND	1.0	10/02/09 18:32	
Bromodichloromethane	ug/L	ND	1.0	10/02/09 18:32	
Bromoform	ug/L	ND	8.0	10/02/09 18:32	
Bromomethane	ug/L	ND	4.0	10/02/09 18:32	
Carbon tetrachloride	ug/L	ND	1.0	10/02/09 18:32	
Chlorobenzene	ug/L	ND	1.0	10/02/09 18:32	
Chloroethane	ug/L	ND	1.0	10/02/09 18:32	
Chloroform	ug/L	ND	1.0	10/02/09 18:32	
Chloromethane	ug/L	ND	4.0	10/02/09 18:32	
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/02/09 18:32	
cis-1,3-Dichloropropene	ug/L	ND	4.0	10/02/09 18:32	
Dibromochloromethane	ug/L	ND	1.0	10/02/09 18:32	
Dibromomethane	ug/L	ND	1.0	10/02/09 18:32	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10113784

METHOD BLANK: 691162 Matrix: Water

Associated Lab Samples: 10113784001, 10113784002, 10113784003, 10113784004, 10113784005, 10113784006, 10113784007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	10/02/09 18:32	
Dichlorofluoromethane	ug/L	ND	1.0	10/02/09 18:32	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	10/02/09 18:32	
Ethylbenzene	ug/L	ND	1.0	10/02/09 18:32	
Hexachloro-1,3-butadiene	ug/L	ND	4.0	10/02/09 18:32	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	10/02/09 18:32	
m&p-Xylene	ug/L	ND	2.0	10/02/09 18:32	
Methyl-tert-butyl ether	ug/L	ND	1.0	10/02/09 18:32	
Methylene Chloride	ug/L	ND	4.0	10/02/09 18:32	
n-Butylbenzene	ug/L	ND	1.0	10/02/09 18:32	
n-Propylbenzene	ug/L	ND	1.0	10/02/09 18:32	
Naphthalene	ug/L	ND	4.0	10/02/09 18:32	
o-Xylene	ug/L	ND	1.0	10/02/09 18:32	
p-Isopropyltoluene	ug/L	ND	1.0	10/02/09 18:32	
sec-Butylbenzene	ug/L	ND	1.0	10/02/09 18:32	
Styrene	ug/L	ND	1.0	10/02/09 18:32	
tert-Butylbenzene	ug/L	ND	1.0	10/02/09 18:32	
Tetrachloroethene	ug/L	ND	1.0	10/02/09 18:32	
Tetrahydrofuran	ug/L	ND	10.0	10/02/09 18:32	
Toluene	ug/L	ND	1.0	10/02/09 18:32	
trans-1,2-Dichloroethene	ug/L	ND	1.0	10/02/09 18:32	
trans-1,3-Dichloropropene	ug/L	ND	4.0	10/02/09 18:32	
Trichloroethene	ug/L	ND	1.0	10/02/09 18:32	
Trichlorofluoromethane	ug/L	ND	1.0	10/02/09 18:32	
Vinyl chloride	ug/L	ND	0.40	10/02/09 18:32	
Xylene (Total)	ug/L	ND	3.0	10/02/09 18:32	
1,2-Dichloroethane-d4 (S)	%	107	75-125	10/02/09 18:32	
4-Bromofluorobenzene (S)	%	102	75-125	10/02/09 18:32	
Dibromofluoromethane (S)	%	102	75-125	10/02/09 18:32	
Toluene-d8 (S)	%	97	75-125	10/02/09 18:32	

LABORATORY CONTROL SAMPLE: 691163

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.4	107	75-125	
1,1,1-Trichloroethane	ug/L	50	51.1	102	75-125	
1,1,2,2-Tetrachloroethane	ug/L	50	50.8	102	75-125	
1,1,2-Trichloroethane	ug/L	50	49.5	99	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	48.2	96	70-138	
1,1-Dichloroethane	ug/L	50	51.4	103	75-125	
1,1-Dichloroethene	ug/L	50	44.5	89	69-129	
1,1-Dichloropropene	ug/L	50	46.2	92	75-126	
1,2,3-Trichlorobenzene	ug/L	50	51.0	102	75-125	
1,2,3-Trichloropropane	ug/L	50	50.8	102	72-126	
1,2,4-Trichlorobenzene	ug/L	50	49.5	99	75-125	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10113784

LABORATORY CONTROL SAMPLE: 691163

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	50	48.2	96	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	56.4	113	67-125	
1,2-Dibromoethane (EDB)	ug/L	50	50.2	100	75-125	
1,2-Dichlorobenzene	ug/L	50	48.6	97	75-125	
1,2-Dichloroethane	ug/L	50	51.9	104	75-125	
1,2-Dichloropropane	ug/L	50	48.5	97	75-125	
1,3,5-Trimethylbenzene	ug/L	50	47.7	95	75-125	
1,3-Dichlorobenzene	ug/L	50	48.0	96	75-125	
1,3-Dichloropropane	ug/L	50	49.4	99	75-125	
1,4-Dichlorobenzene	ug/L	50	47.4	95	75-125	
2,2-Dichloropropane	ug/L	50	55.5	111	48-150	
2-Butanone (MEK)	ug/L	50	51.6	103	51-134	
2-Chlorotoluene	ug/L	50	47.4	95	75-125	
4-Chlorotoluene	ug/L	50	47.7	95	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	50	53.4	107	60-125	
Acetone	ug/L	125	140	112	38-125	
Allyl chloride	ug/L	50	44.3	89	64-137	
Benzene	ug/L	50	45.9	92	75-125	
Bromobenzene	ug/L	50	46.7	93	75-125	
Bromochloromethane	ug/L	50	47.6	95	75-125	
Bromodichloromethane	ug/L	50	53.0	106	75-125	
Bromoform	ug/L	100	95.2	95	68-125	
Bromomethane	ug/L	50	58.9	118	47-129	
Carbon tetrachloride	ug/L	50	51.9	104	59-133	
Chlorobenzene	ug/L	50	47.5	95	75-125	
Chloroethane	ug/L	50	50.3	101	73-132	
Chloroform	ug/L	50	49.2	98	75-125	
Chloromethane	ug/L	50	46.5	93	72-125	
cis-1,2-Dichloroethene	ug/L	50	46.1	92	75-125	
cis-1,3-Dichloropropene	ug/L	50	52.3	105	75-125	
Dibromochloromethane	ug/L	50	54.3	109	75-125	
Dibromomethane	ug/L	50	49.2	98	75-125	
Dichlorodifluoromethane	ug/L	50	53.3	107	69-134	
Dichlorofluoromethane	ug/L	50	48.6	97	70-125	
Diethyl ether (Ethyl ether)	ug/L	50	47.0	94	71-125	
Ethylbenzene	ug/L	50	47.4	95	75-125	
Hexachloro-1,3-butadiene	ug/L	50	50.8	102	75-137	
Isopropylbenzene (Cumene)	ug/L	50	49.7	99	75-125	
m&p-Xylene	ug/L	100	94.3	94	75-125	
Methyl-tert-butyl ether	ug/L	50	53.0	106	75-125	
Methylene Chloride	ug/L	50	42.5	85	75-125	
n-Butylbenzene	ug/L	50	49.3	99	75-125	
n-Propylbenzene	ug/L	50	47.8	96	75-125	
Naphthalene	ug/L	50	53.2	106	72-125	
o-Xylene	ug/L	50	47.5	95	75-125	
p-Isopropyltoluene	ug/L	50	48.6	97	75-125	
sec-Butylbenzene	ug/L	50	49.0	98	75-125	
Styrene	ug/L	50	49.3	99	75-125	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10113784

LABORATORY CONTROL SAMPLE: 691163

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	50.0	100	75-125	
Tetrachloroethene	ug/L	50	44.7	89	74-125	
Tetrahydrofuran	ug/L	500	510	102	65-125	
Toluene	ug/L	50	45.1	90	75-125	
trans-1,2-Dichloroethene	ug/L	50	43.6	87	74-125	
trans-1,3-Dichloropropene	ug/L	50	54.0	108	75-125	
Trichloroethene	ug/L	50	46.8	94	75-125	
Trichlorofluoromethane	ug/L	50	53.1	106	73-134	
Vinyl chloride	ug/L	50	49.9	100	75-126	
Xylene (Total)	ug/L	150	142	95	75-125	
1,2-Dichloroethane-d4 (S)	%			108	75-125	
4-Bromofluorobenzene (S)	%			99	75-125	
Dibromofluoromethane (S)	%			103	75-125	
Toluene-d8 (S)	%			98	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 691164 691165

Parameter	Units	10113345001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	22.4	22.0	112	110	71-125	2	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	23.3	22.9	117	115	75-125	2	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.2	20.5	101	103	75-126	2	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	20.1	20.1	101	100	75-125	0	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	20	25.2	25.3	126	127	70-150	0	30	
1,1-Dichloroethane	ug/L	ND	20	20	22.2	22.5	111	113	75-125	2	30	
1,1-Dichloroethene	ug/L	ND	20	20	20.7	21.3	104	106	64-142	3	30	
1,1-Dichloropropene	ug/L	ND	20	20	21.1	21.3	105	107	75-125	1	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	20.8	21.1	104	105	75-125	2	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	19.5	20.5	98	103	72-127	5	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	20.6	21.0	103	105	75-125	2	30	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	21.4	21.0	107	105	75-125	2	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20.3	21.1	102	105	65-125	4	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.1	20.1	101	101	75-125	0	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	20.5	20.5	102	103	75-125	0	30	
1,2-Dichloroethane	ug/L	ND	20	20	20.9	20.9	105	104	75-125	0	30	
1,2-Dichloropropane	ug/L	ND	20	20	20.9	20.7	105	104	75-125	1	30	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	21.3	21.1	106	106	75-127	1	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	20.8	20.6	104	103	75-125	1	30	
1,3-Dichloropropane	ug/L	ND	20	20	19.9	19.9	99	100	75-125	0	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	20.4	20.3	102	102	75-125	1	30	
2,2-Dichloropropane	ug/L	ND	20	20	26.0	24.9	130	125	48-150	4	30	
2-Butanone (MEK)	ug/L	ND	20	20	16.1	17.0	81	85	51-134	5	30	
2-Chlorotoluene	ug/L	ND	20	20	21.5	21.1	107	106	75-125	2	30	
4-Chlorotoluene	ug/L	ND	20	20	21.1	20.8	105	104	68-127	1	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	19.2	20.4	96	102	60-135	6	30	
Acetone	ug/L	ND	50	50	36.8	33.7	74	67	30-125	9	30	
Allyl chloride	ug/L	ND	20	20	21.4	20.1	107	101	40-137	6	30	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10113784

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 691164 691165

Parameter	Units	10113345001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	20	20	20.3	20.3	101	102	75-125	0	30	
Bromobenzene	ug/L	ND	20	20	20.8	20.4	104	102	75-125	2	30	
Bromochloromethane	ug/L	ND	20	20	20.3	20.6	102	103	75-125	1	30	
Bromodichloromethane	ug/L	ND	20	20	21.9	22.1	110	110	72-125	1	30	
Bromoform	ug/L	ND	40	40	37.2	37.3	93	93	51-125	0	30	
Bromomethane	ug/L	ND	20	20	21.8	22.6	109	113	47-130	3	30	
Carbon tetrachloride	ug/L	ND	20	20	23.4	23.7	117	119	61-133	1	30	
Chlorobenzene	ug/L	ND	20	20	20.9	20.4	105	102	75-125	2	30	
Chloroethane	ug/L	ND	20	20	24.9	24.2	125	121	75-132	3	30	
Chloroform	ug/L	ND	20	20	21.5	21.3	108	107	75-125	1	30	
Chloromethane	ug/L	ND	20	20	24.0	23.1	120	115	68-132	4	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.1	20.4	101	102	75-125	1	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	21.2	21.2	106	106	63-125	0	30	
Dibromochloromethane	ug/L	ND	20	20	21.5	21.0	107	105	62-125	2	30	
Dibromomethane	ug/L	ND	20	20	20.1	20.0	100	100	75-125	0	30	
Dichlorodifluoromethane	ug/L	ND	20	20	29.3	28.1	147	141	65-150	4	30	
Dichlorofluoromethane	ug/L	ND	20	20	22.4	21.9	112	110	68-127	2	30	
Diethyl ether (Ethyl ether)	ug/L	ND	20	20	18.4	18.2	92	91	71-125	1	30	
Ethylbenzene	ug/L	ND	20	20	21.4	21.0	107	105	75-125	2	30	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	25.2	23.7	126	119	75-147	6	30	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	22.2	22.0	111	110	75-125	1	30	
m&p-Xylene	ug/L	ND	40	40	41.7	41.4	104	104	67-125	1	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	20.1	21.0	101	105	75-125	4	30	
Methylene Chloride	ug/L	ND	20	20	18.8	18.8	94	94	75-125	0	30	
n-Butylbenzene	ug/L	ND	20	20	22.8	22.1	114	110	70-135	3	30	
n-Propylbenzene	ug/L	ND	20	20	21.7	21.7	109	109	70-131	0	30	
Naphthalene	ug/L	ND	20	20	20.5	21.1	102	106	66-127	3	30	
o-Xylene	ug/L	ND	20	20	21.0	20.8	105	104	72-125	1	30	
p-Isopropyltoluene	ug/L	ND	20	20	22.1	21.7	110	109	71-126	2	30	
sec-Butylbenzene	ug/L	ND	20	20	22.8	22.5	114	113	75-127	1	30	
Styrene	ug/L	ND	20	20	20.9	20.8	105	104	30-134	0	30	
tert-Butylbenzene	ug/L	ND	20	20	22.4	22.6	112	113	75-125	1	30	
Tetrachloroethene	ug/L	ND	20	20	21.1	20.9	106	105	74-125	1	30	
Tetrahydrofuran	ug/L	ND	200	200	182	196	91	98	65-125	7	30	
Toluene	ug/L	ND	20	20	20.7	20.2	103	101	75-125	2	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	19.7	19.5	99	97	72-125	1	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	21.4	21.5	107	108	63-125	0	30	
Trichloroethene	ug/L	ND	20	20	21.0	20.8	105	104	58-127	1	30	
Trichlorofluoromethane	ug/L	ND	20	20	27.9	27.2	140	136	73-150	3	30	
Vinyl chloride	ug/L	ND	20	20	26.8	25.4	134	127	75-134	5	30	
Xylene (Total)	ug/L	ND	60	60	62.8	62.2	105	104	75-125	1	30	
1,2-Dichloroethane-d4 (S)	%						103	105	75-125			
4-Bromofluorobenzene (S)	%						100	100	75-125			
Dibromofluoromethane (S)	%						102	102	75-125			
Toluene-d8 (S)	%						100	99	75-125			

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10113784

QC Batch: WET/4658 Analysis Method: SM 4500-S F (2000)
QC Batch Method: SM 4500-S F (2000) Analysis Description: 4500S2F Sulfide, Iodometric
Associated Lab Samples: 10113784001, 10113784002, 10113784003, 10113784004, 10113784005, 10113784006

METHOD BLANK: 215866 Matrix: Water
Associated Lab Samples: 10113784001, 10113784002, 10113784003, 10113784004, 10113784005, 10113784006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	5.0	10/02/09 09:30	

LABORATORY CONTROL SAMPLE: 215867

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	52.4	51.6	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 215868 215869

Parameter	Units	10113598001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	52.4	52.4	46.4	49.2	88	94	80-120	6	20	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10113784

QC Batch: WETA/8507 Analysis Method: ASTM D516-02
QC Batch Method: ASTM D516-02 Analysis Description: ASTM D516-9002 Sulfate Water
Associated Lab Samples: 10113784001, 10113784002, 10113784003

METHOD BLANK: 694107 Matrix: Water
Associated Lab Samples: 10113784001, 10113784002, 10113784003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	2.5	10/09/09 10:15	

LABORATORY CONTROL SAMPLE: 694108

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	7.5	7.2	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 694109 694110

Parameter	Units	10113344006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	62.1	20	20	74.0	75.0	60	65	80-120	1	30	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 694111 694112

Parameter	Units	10113348009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	31.6	20	20	48.6	49.3	85	88	80-120	1	30	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10113784

QC Batch: WETA/8508 Analysis Method: ASTM D516-02
QC Batch Method: ASTM D516-02 Analysis Description: ASTM D516-9002 Sulfate Water
Associated Lab Samples: 10113784004, 10113784005, 10113784006

METHOD BLANK: 694307 Matrix: Water
Associated Lab Samples: 10113784004, 10113784005, 10113784006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	2.5	10/09/09 17:20	

LABORATORY CONTROL SAMPLE: 694308

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	7.5	7.0	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 694309 694310

Parameter	Units	10113663004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	31.0	20	20	47.5	46.7	83	79	80-120	2	30	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 694311 694312

Parameter	Units	10113784004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	159	20	20	175	191	78	161	80-120	9	30	M0

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10113784

QC Batch: AIR/9201 Analysis Method: RSK 175
QC Batch Method: RSK 175 Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 10113784004, 10113784005, 10113784006

METHOD BLANK: 692496 Matrix: Water
Associated Lab Samples: 10113784004, 10113784005, 10113784006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	ND	10.0	10/06/09 19:13	

LABORATORY CONTROL SAMPLE & LCSD: 692497 692498

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	60.7	59.7	42.9	98	71	70-130	33	30	R1

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10113784

QC Batch: AIR/9198 Analysis Method: RSK 175
QC Batch Method: RSK 175 Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 10113784001, 10113784002, 10113784003

METHOD BLANK: 692156 Matrix: Water
Associated Lab Samples: 10113784001, 10113784002, 10113784003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	ND	10.0	10/06/09 09:00	

LABORATORY CONTROL SAMPLE & LCSD: 692157 692158

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	60.7	60.4	53.3	100	88	70-130	12	30	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 692159 692160

Parameter	Units	10113357003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Methane	ug/L	64.9	60.7	60.7	61.4	81.0	-6	27	50-150	28	30	M0

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10113784

QC Batch: WETA/4888 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Dissolved Organic Carbon
Associated Lab Samples: 10113784001, 10113784002, 10113784003, 10113784004, 10113784005, 10113784006

METHOD BLANK: 216368 Matrix: Water
Associated Lab Samples: 10113784001, 10113784002, 10113784003, 10113784004, 10113784005, 10113784006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	2.0	10/06/09 08:44	

LABORATORY CONTROL SAMPLE: 216369

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	100	98.0	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 216370 216371

Parameter	Units	10113784001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	69.2	100	100	151	147	82	78	80-120	3	20	M0

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10113784

QC Batch: WETA/4872 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 10113784001, 10113784002, 10113784003, 10113784004, 10113784005, 10113784006

METHOD BLANK: 216086 Matrix: Water
Associated Lab Samples: 10113784001, 10113784002, 10113784003, 10113784004, 10113784005, 10113784006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate as N	mg/L	ND	0.40	10/02/09 19:18	

LABORATORY CONTROL SAMPLE: 216087

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	2	2.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 216088 216089

Parameter	Units	10113784006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	8.9	2	2	11.2	11.2	114	116	90-110	.3	20	1M,M0

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10113784

QC Batch: MPRP/17563 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 MET Dissolved
Associated Lab Samples: 10113784001, 10113784002, 10113784003, 10113784004, 10113784005, 10113784006

METHOD BLANK: 690643 Matrix: Water
Associated Lab Samples: 10113784001, 10113784002, 10113784003, 10113784004, 10113784005, 10113784006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	ND	50.0	10/04/09 09:10	

LABORATORY CONTROL SAMPLE: 690644

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	10000	8620	86	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 690645 690646

Parameter	Units	10113331001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Dissolved	ug/L	184	10000	10000	9410	9550	92	94	70-130	2	30	

MATRIX SPIKE SAMPLE: 690647

Parameter	Units	10113784006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	ND	10000	9170	92	70-130	

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QUALIFIERS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10113784

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

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

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay
PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

1M	Parent sample was within range. Spiking resulted in the MS/MSD going over range.
2M	Sample was analyzed past hold because a dilution was needed. Initial sample run was within hold.
H1	Analysis conducted outside the recognized method holding time.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10113784

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10113784001	**MW14**	SM 4500-S F (2000)	WET/4658		
10113784002	**MW15**	SM 4500-S F (2000)	WET/4658		
10113784003	**MW16**	SM 4500-S F (2000)	WET/4658		
10113784004	**MW17**	SM 4500-S F (2000)	WET/4658		
10113784005	**MW18**	SM 4500-S F (2000)	WET/4658		
10113784006	**MW20**	SM 4500-S F (2000)	WET/4658		
10113784001	**MW14**	EPA 300.0	WETA/4872		
10113784002	**MW15**	EPA 300.0	WETA/4872		
10113784003	**MW16**	EPA 300.0	WETA/4872		
10113784004	**MW17**	EPA 300.0	WETA/4872		
10113784005	**MW18**	EPA 300.0	WETA/4872		
10113784006	**MW20**	EPA 300.0	WETA/4872		
10113784001	**MW14**	SM 5310C	WETA/4888		
10113784002	**MW15**	SM 5310C	WETA/4888		
10113784003	**MW16**	SM 5310C	WETA/4888		
10113784004	**MW17**	SM 5310C	WETA/4888		
10113784005	**MW18**	SM 5310C	WETA/4888		
10113784006	**MW20**	SM 5310C	WETA/4888		
10113784001	**MW14**	EPA 200.7	MPRP/17563	EPA 200.7	ICP/7964
10113784002	**MW15**	EPA 200.7	MPRP/17563	EPA 200.7	ICP/7964
10113784003	**MW16**	EPA 200.7	MPRP/17563	EPA 200.7	ICP/7964
10113784004	**MW17**	EPA 200.7	MPRP/17563	EPA 200.7	ICP/7964
10113784005	**MW18**	EPA 200.7	MPRP/17563	EPA 200.7	ICP/7964
10113784006	**MW20**	EPA 200.7	MPRP/17563	EPA 200.7	ICP/7964
10113784001	**MW14**	EPA 8260	MSV/13168		
10113784002	**MW15**	EPA 8260	MSV/13168		
10113784003	**MW16**	EPA 8260	MSV/13168		
10113784004	**MW17**	EPA 8260	MSV/13168		
10113784005	**MW18**	EPA 8260	MSV/13168		
10113784006	**MW20**	EPA 8260	MSV/13168		
10113784007	**TRIP BLANK**	EPA 8260	MSV/13168		
10113784001	**MW14**	RSK 175	AIR/9198		
10113784002	**MW15**	RSK 175	AIR/9198		
10113784003	**MW16**	RSK 175	AIR/9198		
10113784004	**MW17**	RSK 175	AIR/9201		
10113784005	**MW18**	RSK 175	AIR/9201		
10113784006	**MW20**	RSK 175	AIR/9201		
10113784001	**MW14**	ASTM D516-02	WETA/8507		
10113784002	**MW15**	ASTM D516-02	WETA/8507		
10113784003	**MW16**	ASTM D516-02	WETA/8507		
10113784004	**MW17**	ASTM D516-02	WETA/8508		
10113784005	**MW18**	ASTM D516-02	WETA/8508		
10113784006	**MW20**	ASTM D516-02	WETA/8508		

1147, 1148

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CHAIN-OF-CUSTODY / Analytical Request Document

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

10113784

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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:	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	Analyses Requested: Methane	8260	Fe	Sulfate	Pace Project Number / Lab I.D.
1	MW14	W	G	10/1/09	04:00													x	x	x	x	001 FILTER AT LAB
2	MW15	W	G	10/1/09	04:20													x	x	x	x	002 FILTER AT LAB
3	MW16	W	G	10/1/09	04:25													x	x	x	x	003 FILTER AT LAB
4	MW17	W	G	10/1/09	05:20													x	x	x	x	004 FILTER AT LAB
5	MW18	W	G	10/1/09	05:46													x	x	x	x	005 FILTER AT LAB
6	MW20	W	G	10/1/09	06:00													x	x	x	x	006 FILTER AT LAB
7																						007
8																						
5																						
6																						
7																						
8																						

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
				10/1	1345

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
100	Y/N	Y/N	Y/N
009	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)

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CHAIN-OF-CUSTODY / Analytical Request Document

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

[2113784

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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:	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
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis: Nitrate	sulfide	doc	Pace Project Number / Lab I.D.
1	MW14	W	G	10/1/09	04:00													x	x	x	061 FILTER AT LAB
2	MW15	W	G	10/1/09	04:20													x	x	x	002 FILTER AT LAB
3	MW16	W	G	10/1/09	04:25													x	x	x	003 FILTER AT LAB
4	MW17	W	G	10/1/09	05:20													x	x	x	004 FILTER AT LAB
5	MW18	W	G	10/1/09	05:46													x	x	x	005 FILTER AT LAB
6	MW20	W	G	10/1/09	06:00													x	x	x	006 FILTER AT LAB
7																					007
8																					
5																					
6																					
7																					
8																					

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
			[signature] Pace	10/1	1315

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

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

Sample Condition Upon Receipt

Pace Analytical

Client Name: Landmark **Project #** 10113784

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

Optional
Proj Due Date:
Proj Name:

Tracking #: ______

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

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

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

Cooler Temperature 1.0 / .08 **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: CT 10/1/09

				Comments:
Chain of Custody Present:	☑ Yes	~~☐ No~~	☐ N/A	1.
Chain of Custody Filled Out:	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished:	☐ Yes	☑ No	☐ N/A	3.
Sampler Name & Signature on COC:	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72hr):	☑ Yes	☐ No	☐ N/A	6. Nitrate
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. Lab filter metals
Sample Labels match COC:	☑ Yes	☐ No	☐ N/A	12.
-Includes date/time/ID/Analysis Matrix: ______				
All containers needing acid/base preservation have been checked. Noncompliance are noted in 13.	☐ Yes	☐ No	☑ N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ HCl
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes	☐ No	☑ N/A	Samp #
Exceptions: VOA,Coliform, TOC, Oil and Grease, WI-DRO (water)	☐ Yes	☐ No		Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐ Yes	☐ No	☑ N/A	14.
Headspace in VOA Vials (>6mm):	☐ Yes	☑ No	☐ N/A	15.
Trip Blank Present:	☑ Yes	☐ No	☐ N/A	16. 081009-3
Trip Blank Custody Seals Present	☑ Yes	☐ No	☐ N/A	091409-3
Pace Trip Blank Lot # (if purchased): ______				

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

Person Contacted: ______ Date/Time: ______

Comments/ Resolution: ______

Project Manager Review: CTrust **Date:** 10/1/09

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

F-L213Rev.00, 05Aug2009 Pace Analytical Services, Inc. 1700 Elm Street SE, Suite 200, Minneapolis, MN 55414

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

December 12, 2008

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

RE: Project: CRC City Of Rochester
Pace Project No.: 1085550

Dear Eric Gabrielson:
Enclosed are the analytical results for sample(s) received by the laboratory on December 04, 2008. 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: CRC City Of Rochester
Pace Project No.: 1085550

Minnesota Certification IDs

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

Green Bay Certification IDs

Louisiana Certification #: 04169
Louisiana Certification #: 04168
Kentucky Certification #: 83
Kentucky Certification #: 82
Wisconsin DATCP Certification #: 105-444
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
South Carolina Certification #: 83006001
Minnesota Certification #: 055-999-334
Minnesota Certification #: 055-999-334
North Carolina Certification #: 503
North Carolina Certification #: 503
North Dakota Certification #: R-200
North Dakota Certification #: R-150
New York Certification #: 11888
New York Certification #: 11887
Illinois Certification #: 200051
Illinois Certification #: 200050
Florida (NELAP) Certification #: E87951
Florida (NELAP) Certification #: E87948

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SAMPLE SUMMARY

Project: CRC City Of Rochester
Pace Project No.: 1085550

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1085550001	**MW-14**	Water	12/03/08 16:20	12/04/08 09:48
1085550002	**MW-16**	Water	12/03/08 12:35	12/04/08 09:48
1085550003	**MW-17**	Water	12/03/08 13:10	12/04/08 09:48
1085550004	**MW-18**	Water	12/03/08 14:26	12/04/08 09:48
1085550005	**MW-19**	Water	12/03/08 16:59	12/04/08 09:48

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SAMPLE ANALYTE COUNT

Project: CRC City Of Rochester
Pace Project No.: 1085550

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
1085550001	**MW-14**	EPA 353.1	NMH	1	PASI-M
		EPA 375.4	NMH	1	PASI-M
		EPA 6010	IP	3	PASI-M
		EPA 8260	CNC	10	PASI-M
		RSK 175	LCW	1	PASI-M
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	AMT	1	PASI-G
1085550002	**MW-16**	EPA 375.4	NMH	1	PASI-M
		EPA 6010	IP	3	PASI-M
		EPA 8260	CNC	10	PASI-M
		RSK 175	LCW	1	PASI-M
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	AMT	1	PASI-G
1085550003	**MW-17**	EPA 375.4	NMH	1	PASI-M
		EPA 6010	IP	3	PASI-M
		EPA 8260	CNC	10	PASI-M
		RSK 175	LCW	1	PASI-M
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	AMT	1	PASI-G
1085550004	**MW-18**	EPA 375.4	NMH	1	PASI-M
		EPA 6010	IP	3	PASI-M
		EPA 8260	CNC	10	PASI-M
		RSK 175	LCW	1	PASI-M
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	AMT	1	PASI-G
1085550005	**MW-19**	EPA 375.4	NMH	1	PASI-M
		EPA 6010	IP	3	PASI-M
		EPA 8260	CNC	10	PASI-M
		RSK 175	LCW	1	PASI-M
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	AMT	1	PASI-G

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ANALYTICAL RESULTS

Project: CRC City Of Rochester
Pace Project No.: 1085550

Sample: MW-14 **Lab ID: 1085550001** Collected: 12/03/08 16:20 Received: 12/04/08 09:48 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Methane	ND	ug/L	10.0	1		12/08/08 15:10	74-82-8	
6010 MET ICP, Lab Filtered	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium, Dissolved	**114000**	ug/L	500	1	12/09/08 10:47	12/09/08 15:38	7440-70-2	P6
Iron, Dissolved	ND	ug/L	50.0	1	12/09/08 10:47	12/09/08 15:38	7439-89-6	
Magnesium, Dissolved	**30400**	ug/L	500	1	12/09/08 10:47	12/09/08 15:38	7439-95-4	M0
8260 VOC	Analytical Method: EPA 8260							
1,1-Dichloroethene	ND	ug/L	1.0	1		12/08/08 17:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/08/08 17:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/08/08 17:32	156-60-5	
Tetrachloroethene	**30.6**	ug/L	1.0	1		12/08/08 17:32	127-18-4	
Trichloroethene	ND	ug/L	1.0	1		12/08/08 17:32	79-01-6	
Vinyl chloride	ND	ug/L	0.40	1		12/08/08 17:32	75-01-4	
Dibromofluoromethane (S)	99	%	75-125	1		12/08/08 17:32	1868-53-7	pH
1,2-Dichloroethane-d4 (S)	97	%	75-125	1		12/08/08 17:32	17060-07-0	
Toluene-d8 (S)	96	%	75-125	1		12/08/08 17:32	2037-26-5	
4-Bromofluorobenzene (S)	95	%	75-125	1		12/08/08 17:32	460-00-4	
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)							
Sulfide	ND	mg/L	5.0	1		12/05/08 13:30		
353.1 Nitrate, unpreserved	Analytical Method: EPA 353.1							
Nitrate as N	**3.7**	mg/L	0.50	5		12/05/08 11:04	14797-55-8	M0
375.4 Sulfate, Turbidimetric	Analytical Method: EPA 375.4							
Sulfate	**131**	mg/L	25.0	10		12/09/08 16:14	14808-79-8	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C							
Dissolved Organic Carbon	**2.4**	mg/L	2.0	1		12/10/08 08:50		

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ANALYTICAL RESULTS

Project: CRC City Of Rochester
Pace Project No.: 1085550

Sample: MW-16 **Lab ID: 1085550002** Collected: 12/03/08 12:35 Received: 12/04/08 09:48 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Methane	ND	ug/L	10.0	1		12/08/08 15:35	74-82-8	
6010 MET ICP, Lab Filtered	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium, Dissolved	**194000**	ug/L	500	1	12/09/08 10:47	12/09/08 15:55	7440-70-2	
Iron, Dissolved	ND	ug/L	50.0	1	12/09/08 10:47	12/09/08 15:55	7439-89-6	
Magnesium, Dissolved	**70200**	ug/L	500	1	12/09/08 10:47	12/09/08 15:55	7439-95-4	
8260 VOC	Analytical Method: EPA 8260							
1,1-Dichloroethene	ND	ug/L	1.0	1		12/08/08 20:10	75-35-4	
cis-1,2-Dichloroethene	**133**	ug/L	1.0	1		12/08/08 20:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/08/08 20:10	156-60-5	
Tetrachloroethene	**14100**	ug/L	100	100		12/09/08 19:51	127-18-4	
Trichloroethene	**35.0**	ug/L	1.0	1		12/08/08 20:10	79-01-6	
Vinyl chloride	ND	ug/L	0.40	1		12/08/08 20:10	75-01-4	
Dibromofluoromethane (S)	93	%	75-125	1		12/08/08 20:10	1868-53-7	pH
1,2-Dichloroethane-d4 (S)	91	%	75-125	1		12/08/08 20:10	17060-07-0	
Toluene-d8 (S)	97	%	75-125	1		12/08/08 20:10	2037-26-5	
4-Bromofluorobenzene (S)	92	%	75-125	1		12/08/08 20:10	460-00-4	
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)							
Sulfide	ND	mg/L	5.0	1		12/05/08 13:30		
375.4 Sulfate, Turbidimetric	Analytical Method: EPA 375.4							
Sulfate	**253**	mg/L	62.5	25		12/09/08 15:03	14808-79-8	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C							
Dissolved Organic Carbon	**3.5**	mg/L	2.0	1		12/10/08 08:50		

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ANALYTICAL RESULTS

Project: CRC City Of Rochester
Pace Project No.: 1085550

Sample: MW-17 **Lab ID: 1085550003** Collected: 12/03/08 13:10 Received: 12/04/08 09:48 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Methane	ND	ug/L	10.0	1		12/08/08 16:01	74-82-8	
6010 MET ICP, Lab Filtered	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium, Dissolved	**76300**	ug/L	500	1	12/09/08 10:47	12/09/08 16:01	7440-70-2	
Iron, Dissolved	**50.1**	ug/L	50.0	1	12/09/08 10:47	12/09/08 16:01	7439-89-6	
Magnesium, Dissolved	**29100**	ug/L	500	1	12/09/08 10:47	12/09/08 16:01	7439-95-4	
8260 VOC	Analytical Method: EPA 8260							
1,1-Dichloroethene	ND	ug/L	5.0	5		12/09/08 18:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	5		12/09/08 18:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	5		12/09/08 18:44	156-60-5	
Tetrachloroethene	**363**	ug/L	5.0	5		12/09/08 18:44	127-18-4	
Trichloroethene	ND	ug/L	5.0	5		12/09/08 18:44	79-01-6	
Vinyl chloride	ND	ug/L	2.0	5		12/09/08 18:44	75-01-4	
Dibromofluoromethane (S)	115	%	75-125	5		12/09/08 18:44	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	75-125	5		12/09/08 18:44	17060-07-0	
Toluene-d8 (S)	103	%	75-125	5		12/09/08 18:44	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125	5		12/09/08 18:44	460-00-4	
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)							
Sulfide	ND	mg/L	5.0	1		12/05/08 13:30		
375.4 Sulfate, Turbidimetric	Analytical Method: EPA 375.4							
Sulfate	**199**	mg/L	25.0	10		12/09/08 15:25	14808-79-8	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C							
Dissolved Organic Carbon	**7.5**	mg/L	2.0	1		12/10/08 08:50		

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ANALYTICAL RESULTS

Project: CRC City Of Rochester
Pace Project No.: 1085550

Sample: MW-18 **Lab ID: 1085550004** Collected: 12/03/08 14:26 Received: 12/04/08 09:48 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Methane	ND	ug/L	10.0	1		12/08/08 16:26	74-82-8	
6010 MET ICP, Lab Filtered	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium, Dissolved	**99000**	ug/L	500	1	12/09/08 10:47	12/09/08 16:08	7440-70-2	
Iron, Dissolved	**4190**	ug/L	50.0	1	12/09/08 10:47	12/09/08 16:08	7439-89-6	
Magnesium, Dissolved	**52600**	ug/L	500	1	12/09/08 10:47	12/09/08 16:08	7439-95-4	
8260 VOC	Analytical Method: EPA 8260							
1,1-Dichloroethene	ND	ug/L	2.0	2		12/09/08 17:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	2.0	2		12/09/08 17:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	2.0	2		12/09/08 17:59	156-60-5	
Tetrachloroethene	**257**	ug/L	2.0	2		12/09/08 17:59	127-18-4	
Trichloroethene	ND	ug/L	2.0	2		12/09/08 17:59	79-01-6	
Vinyl chloride	ND	ug/L	0.80	2		12/09/08 17:59	75-01-4	
Dibromofluoromethane (S)	104	%	75-125	2		12/09/08 17:59	1868-53-7	
1,2-Dichloroethane-d4 (S)	93	%	75-125	2		12/09/08 17:59	17060-07-0	
Toluene-d8 (S)	87	%	75-125	2		12/09/08 17:59	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125	2		12/09/08 17:59	460-00-4	
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)							
Sulfide	ND	mg/L	5.0	1		12/05/08 13:30		
375.4 Sulfate, Turbidimetric	Analytical Method: EPA 375.4							
Sulfate	**115**	mg/L	25.0	10		12/09/08 15:28	14808-79-8	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C							
Dissolved Organic Carbon	**8.5**	mg/L	2.0	1		12/10/08 08:50		

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ANALYTICAL RESULTS

Project: CRC City Of Rochester
Pace Project No.: 1085550

Sample: MW-19 **Lab ID: 1085550005** Collected: 12/03/08 16:59 Received: 12/04/08 09:48 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Methane	ND	ug/L	10.0	1		12/08/08 16:52	74-82-8	
6010 MET ICP, Lab Filtered	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium, Dissolved	**245000**	ug/L	500	1	12/09/08 10:47	12/09/08 16:14	7440-70-2	
Iron, Dissolved	ND	ug/L	50.0	1	12/09/08 10:47	12/09/08 16:14	7439-89-6	
Magnesium, Dissolved	**71100**	ug/L	500	1	12/09/08 10:47	12/09/08 16:14	7439-95-4	
8260 VOC	Analytical Method: EPA 8260							
1,1-Dichloroethene	ND	ug/L	1.0	1		12/09/08 17:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/09/08 17:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/09/08 17:29	156-60-5	
Tetrachloroethene	**2.4**	ug/L	1.0	1		12/09/08 17:29	127-18-4	
Trichloroethene	ND	ug/L	1.0	1		12/09/08 17:29	79-01-6	
Vinyl chloride	ND	ug/L	0.40	1		12/09/08 17:29	75-01-4	
Dibromofluoromethane (S)	108	%	75-125	1		12/09/08 17:29	1868-53-7	pH
1,2-Dichloroethane-d4 (S)	94	%	75-125	1		12/09/08 17:29	17060-07-0	
Toluene-d8 (S)	92	%	75-125	1		12/09/08 17:29	2037-26-5	
4-Bromofluorobenzene (S)	94	%	75-125	1		12/09/08 17:29	460-00-4	
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)							
Sulfide	ND	mg/L	5.0	1		12/05/08 13:30		
375.4 Sulfate, Turbidimetric	Analytical Method: EPA 375.4							
Sulfate	**187**	mg/L	25.0	10		12/09/08 15:38	14808-79-8	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C							
Dissolved Organic Carbon	**3.1**	mg/L	2.0	1		12/10/08 08:50		

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QUALITY CONTROL DATA

Project: CRC City Of Rochester
Pace Project No.: 1085550

QC Batch: WET/2741 Analysis Method: SM 4500-S F (2000)
QC Batch Method: SM 4500-S F (2000) Analysis Description: 4500S2F Sulfide, Iodometric
Associated Lab Samples: 1085550001, 1085550002, 1085550003, 1085550004, 1085550005

METHOD BLANK: 109048 Matrix: Water
Associated Lab Samples: 1085550001, 1085550002, 1085550003, 1085550004, 1085550005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	5.0	12/05/08 08:45	

LABORATORY CONTROL SAMPLE: 109049

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	43.2	43.6	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 109050 109051

Parameter	Units	1085557001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	43.2	43.2	46.8	48.4	107	111	80-120	3	20	

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QUALITY CONTROL DATA

Project: CRC City Of Rochester
Pace Project No.: 1085550

QC Batch: WETA/2920 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Dissolved Organic Carbon
Associated Lab Samples: 1085550001, 1085550002, 1085550003, 1085550004, 1085550005

METHOD BLANK: 109392 Matrix: Water
Associated Lab Samples: 1085550001, 1085550002, 1085550003, 1085550004, 1085550005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	2.0	12/10/08 08:50	

LABORATORY CONTROL SAMPLE: 109393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	100	100	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 109394 109395

Parameter	Units	1085550001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	2.4	100	100	113	113	110	111	80-120	.2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 109487 109488

Parameter	Units	4012179002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	2.3	100	100	111	112	109	110	80-120	.9	20	

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QUALITY CONTROL DATA

Project: CRC City Of Rochester
Pace Project No.: 1085550

QC Batch: WETA/7542
QC Batch Method: EPA 353.1
Analysis Method: EPA 353.1
Analysis Description: 353.1 Nitrate, unpreserved
Associated Lab Samples: 1085550001

METHOD BLANK: 559289 Matrix: Water
Associated Lab Samples: 1085550001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate as N	mg/L	ND	0.10	12/05/08 10:49	

LABORATORY CONTROL SAMPLE: 559290

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	1	0.93	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 559291 559292

Parameter	Units	1085557001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L		1	1	0.97	0.96	97	96	80-120	.7	30	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 559293 559294

Parameter	Units	1085550001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	3.7	1	1	4.2	4.5	51	82	80-120	7	30	M0

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QUALITY CONTROL DATA

Project: CRC City Of Rochester
Pace Project No.: 1085550

QC Batch: AIR/7808 Analysis Method: RSK 175
QC Batch Method: RSK 175 Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 1085550001, 1085550002, 1085550003, 1085550004, 1085550005

METHOD BLANK: 560460 Matrix: Water
Associated Lab Samples: 1085550001, 1085550002, 1085550003, 1085550004, 1085550005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	ND	10.0	12/08/08 12:37	

LABORATORY CONTROL SAMPLE & LCSD: 560461 560462

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	60.7	60.3	53.4	99	88	70-130	12	30	

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QUALITY CONTROL DATA

Project: CRC City Of Rochester
Pace Project No.: 1085550

QC Batch: MSV/11458
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 1085550001, 1085550002

METHOD BLANK: 560576
Matrix: Water
Associated Lab Samples: 1085550001, 1085550002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	1.0	12/08/08 13:24	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/08/08 13:24	
Tetrachloroethene	ug/L	ND	1.0	12/08/08 13:24	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/08/08 13:24	
Trichloroethene	ug/L	ND	1.0	12/08/08 13:24	
Vinyl chloride	ug/L	ND	0.40	12/08/08 13:24	
1,2-Dichloroethane-d4 (S)	%	99	75-125	12/08/08 13:24	
4-Bromofluorobenzene (S)	%	94	75-125	12/08/08 13:24	
Dibromofluoromethane (S)	%	112	75-125	12/08/08 13:24	
Toluene-d8 (S)	%	99	75-125	12/08/08 13:24	

LABORATORY CONTROL SAMPLE: 560577

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	20	18.1	90	75-127	
cis-1,2-Dichloroethene	ug/L	20	19.6	98	75-125	
Tetrachloroethene	ug/L	20	19.3	97	75-125	
trans-1,2-Dichloroethene	ug/L	20	17.1	86	75-125	
Trichloroethene	ug/L	20	19.0	95	75-125	
Vinyl chloride	ug/L	20	18.9	94	71-133	
1,2-Dichloroethane-d4 (S)	%			92	75-125	
4-Bromofluorobenzene (S)	%			95	75-125	
Dibromofluoromethane (S)	%			97	75-125	
Toluene-d8 (S)	%			98	75-125	

MATRIX SPIKE SAMPLE: 560971

Parameter	Units	1085759001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	ND	20	21.2	106	75-141	
cis-1,2-Dichloroethene	ug/L	ND	20	21.2	106	65-148	
Tetrachloroethene	ug/L	ND	20	21.8	109	75-133	
trans-1,2-Dichloroethene	ug/L	ND	20	20.8	104	75-138	
Trichloroethene	ug/L	ND	20	21.0	105	75-130	
Vinyl chloride	ug/L	ND	20	22.4	112	64-150	
1,2-Dichloroethane-d4 (S)	%				94	75-125	
4-Bromofluorobenzene (S)	%				102	75-125	
Dibromofluoromethane (S)	%				92	75-125	
Toluene-d8 (S)	%				96	75-125	

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QUALITY CONTROL DATA

Project: CRC City Of Rochester
Pace Project No.: 1085550

SAMPLE DUPLICATE: 560970

Parameter	Units	301677008 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1-Dichloroethene	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	172	143	18	30	
Tetrachloroethene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	1.4J		30	
Trichloroethene	ug/L	118	99.3	17	30	
Vinyl chloride	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	103	92	11		
4-Bromofluorobenzene (S)	%	95	92	3		
Dibromofluoromethane (S)	%	102	98	3		
Toluene-d8 (S)	%	97	90	7		

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QUALITY CONTROL DATA

Project: CRC City Of Rochester
Pace Project No.: 1085550

QC Batch: MPRP/14108 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 1085550001, 1085550002, 1085550003, 1085550004, 1085550005

METHOD BLANK: 560656 Matrix: Water
Associated Lab Samples: 1085550001, 1085550002, 1085550003, 1085550004, 1085550005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium, Dissolved	ug/L	ND	500	12/09/08 15:31	
Iron, Dissolved	ug/L	ND	50.0	12/09/08 15:31	
Magnesium, Dissolved	ug/L	ND	500	12/09/08 15:31	

LABORATORY CONTROL SAMPLE: 560657

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium, Dissolved	ug/L	10000	10400	104	80-120	
Iron, Dissolved	ug/L	10000	10200	102	80-120	
Magnesium, Dissolved	ug/L	10000	10400	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 560658 560659

Parameter	Units	1085550001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium, Dissolved	ug/L	114000	10000	10000	119000	122000	50	80	80-120	2	30	P6
Iron, Dissolved	ug/L	ND	10000	10000	9200	9630	92	96	80-120	5	30	
Magnesium, Dissolved	ug/L	30400	10000	10000	38000	38600	76	82	80-120	2	30	M0

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QUALITY CONTROL DATA

Project: CRC City Of Rochester
Pace Project No.: 1085550

QC Batch: WETA/7558 Analysis Method: EPA 375.4
QC Batch Method: EPA 375.4 Analysis Description: Sulfate, Turbidimetric
Associated Lab Samples: 1085550001, 1085550002, 1085550003, 1085550004, 1085550005

METHOD BLANK: 560920 Matrix: Water
Associated Lab Samples: 1085550001, 1085550002, 1085550003, 1085550004, 1085550005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	2.5	12/09/08 13:10	

LABORATORY CONTROL SAMPLE: 560921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	7.5	7.0	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 560922 560923

Parameter	Units	1085550001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	131	20	20	139	142	40	54	80-120	2	30	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 560924 560925

Parameter	Units	1085557007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L		20	20	39.4	32.0	94	57	80-120	21	30	M0

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QUALITY CONTROL DATA

Project: CRC City Of Rochester
Pace Project No.: 1085550

QC Batch: MSV/11470 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 1085550003, 1085550004, 1085550005

METHOD BLANK: 561113 Matrix: Water
Associated Lab Samples: 1085550003, 1085550004, 1085550005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	1.0	12/09/08 13:23	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/09/08 13:23	
Tetrachloroethene	ug/L	ND	1.0	12/09/08 13:23	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/09/08 13:23	
Trichloroethene	ug/L	ND	1.0	12/09/08 13:23	
Vinyl chloride	ug/L	ND	0.40	12/09/08 13:23	
1,2-Dichloroethane-d4 (S)	%	99	75-125	12/09/08 13:23	
4-Bromofluorobenzene (S)	%	92	75-125	12/09/08 13:23	
Dibromofluoromethane (S)	%	103	75-125	12/09/08 13:23	
Toluene-d8 (S)	%	97	75-125	12/09/08 13:23	

LABORATORY CONTROL SAMPLE: 561114

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	20	19.3	97	75-127	
cis-1,2-Dichloroethene	ug/L	20	20.2	101	75-125	
Tetrachloroethene	ug/L	20	19.6	98	75-125	
trans-1,2-Dichloroethene	ug/L	20	18.7	94	75-125	
Trichloroethene	ug/L	20	20.0	100	75-125	
Vinyl chloride	ug/L	20	19.2	96	71-133	
1,2-Dichloroethane-d4 (S)	%			85	75-125	
4-Bromofluorobenzene (S)	%			100	75-125	
Dibromofluoromethane (S)	%			101	75-125	
Toluene-d8 (S)	%			105	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 561474 561475

Parameter	Units	1085759010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	1000	1000	887	870	89	87	75-141	2	30	
cis-1,2-Dichloroethene	ug/L	ND	1000	1000	978	967	98	97	65-148	1	30	
Tetrachloroethene	ug/L	ND	1000	1000	904	866	90	87	75-133	4	30	
trans-1,2-Dichloroethene	ug/L	ND	1000	1000	896	901	90	90	75-138	.5	30	
Trichloroethene	ug/L	3450	1000	1000	3580	3350	13	-10	75-130	6	30	M0
Vinyl chloride	ug/L	ND	1000	1000	929	875	93	87	64-150	6	30	
1,2-Dichloroethane-d4 (S)	%						87	92	75-125			
4-Bromofluorobenzene (S)	%						93	95	75-125			
Dibromofluoromethane (S)	%						98	101	75-125			
Toluene-d8 (S)	%						93	100	75-125			

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QUALIFIERS

Project: CRC City Of Rochester
Pace Project No.: 1085550

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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LABORATORIES

PASI-G	Pace Analytical Services - Green Bay
PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

M0	Matrix spike recovery was outside laboratory control limits.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
pH	Post-analysis pH measurement indicates insufficient VOA sample preservation.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC City Of Rochester
Pace Project No.: 1085550

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
1085550001	**MW-14**	SM 4500-S F (2000)	WET/2741		
1085550002	**MW-16**	SM 4500-S F (2000)	WET/2741		
1085550003	**MW-17**	SM 4500-S F (2000)	WET/2741		
1085550004	**MW-18**	SM 4500-S F (2000)	WET/2741		
1085550005	**MW-19**	SM 4500-S F (2000)	WET/2741		
1085550001	**MW-14**	SM 5310C	WETA/2920		
1085550002	**MW-16**	SM 5310C	WETA/2920		
1085550003	**MW-17**	SM 5310C	WETA/2920		
1085550004	**MW-18**	SM 5310C	WETA/2920		
1085550005	**MW-19**	SM 5310C	WETA/2920		
1085550001	**MW-14**	EPA 353.1	WETA/7542		
1085550001	**MW-14**	RSK 175	AIR/7808		
1085550002	**MW-16**	RSK 175	AIR/7808		
1085550003	**MW-17**	RSK 175	AIR/7808		
1085550004	**MW-18**	RSK 175	AIR/7808		
1085550005	**MW-19**	RSK 175	AIR/7808		
1085550001	**MW-14**	EPA 8260	MSV/11458		
1085550002	**MW-16**	EPA 8260	MSV/11458		
1085550001	**MW-14**	EPA 3010	MPRP/14108	EPA 6010	ICP/6656
1085550002	**MW-16**	EPA 3010	MPRP/14108	EPA 6010	ICP/6656
1085550003	**MW-17**	EPA 3010	MPRP/14108	EPA 6010	ICP/6656
1085550004	**MW-18**	EPA 3010	MPRP/14108	EPA 6010	ICP/6656
1085550005	**MW-19**	EPA 3010	MPRP/14108	EPA 6010	ICP/6656
1085550001	**MW-14**	EPA 375.4	WETA/7558		
1085550002	**MW-16**	EPA 375.4	WETA/7558		
1085550003	**MW-17**	EPA 375.4	WETA/7558		
1085550004	**MW-18**	EPA 375.4	WETA/7558		
1085550005	**MW-19**	EPA 375.4	WETA/7558		
1085550003	**MW-17**	EPA 8260	MSV/11470		
1085550004	**MW-18**	EPA 8260	MSV/11470		
1085550005	**MW-19**	EPA 8260	MSV/11470		

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December 18, 2008

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

RE: Project: CRC CITY OF ROCHESTER
Pace Project No.: 1086028

Dear Eric Gabrielson:
Enclosed are the analytical results for sample(s) received by the laboratory on December 11, 2008. 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: CRC CITY OF ROCHESTER
Pace Project No.: 1086028

Minnesota Certification IDs

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

Green Bay Certification IDs

Louisiana Certification #: 04169
Louisiana Certification #: 04168
Kentucky Certification #: 83
Kentucky Certification #: 82
Wisconsin DATCP Certification #: 105-444
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
South Carolina Certification #: 83006001
Minnesota Certification #: 055-999-334
Minnesota Certification #: 055-999-334
North Carolina Certification #: 503
North Carolina Certification #: 503
North Dakota Certification #: R-200
North Dakota Certification #: R-150
New York Certification #: 11888
New York Certification #: 11887
Illinois Certification #: 200051
Illinois Certification #: 200050
Florida (NELAP) Certification #: E87951
Florida (NELAP) Certification #: E87948

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SAMPLE SUMMARY

Project: CRC CITY OF ROCHESTER
Pace Project No.: 1086028

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1086028001	**DPE-8**	Water	12/10/08 09:30	12/11/08 09:03
1086028002	**MW20**	Water	12/10/08 10:30	12/11/08 09:03
1086028003	**DPE-3**	Water	12/10/08 10:57	12/11/08 09:03
1086028004	**DPE-4**	Water	12/10/08 11:20	12/11/08 09:03
1086028005	**DPE-2**	Water	12/10/08 11:45	12/11/08 09:03
1086028006	**MW15**	Water	12/10/08 12:15	12/11/08 09:03
1086028007	**DPE-7**	Water	12/10/08 13:15	12/11/08 09:03
1086028008	**DPE-1**	Water	12/10/08 13:50	12/11/08 09:03
1086028009	**DPE-6**	Water	12/10/08 14:29	12/11/08 09:03
1086028010	**DPE-5**	Water	12/10/08 16:45	12/11/08 09:03

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SAMPLE ANALYTE COUNT

Project: CRC CITY OF ROCHESTER
Pace Project No.: 1086028

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
1086028001	**DPE-8**	EPA 353.1	NMH	1	PASI-M
		EPA 6010	TEM	3	PASI-M
		EPA 8260	CNC	10	PASI-M
		RSK 175	LCW	1	PASI-M
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 4500-SO4 E	NMH	1	PASI-M
		SM 5310C	AMT	1	PASI-G
1086028002	**MW20**	EPA 353.1	NMH	1	PASI-M
		EPA 6010	TEM	3	PASI-M
		EPA 8260	CNC	10	PASI-M
		RSK 175	LCW	1	PASI-M
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 4500-SO4 E	NMH	1	PASI-M
		SM 5310C	AMT	1	PASI-G
1086028003	**DPE-3**	EPA 353.1	NMH	1	PASI-M
		EPA 6010	TEM	3	PASI-M
		EPA 8260	CNC	10	PASI-M
		RSK 175	LCW	1	PASI-M
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 4500-SO4 E	NMH	1	PASI-M
		SM 5310C	AMT	1	PASI-G
1086028004	**DPE-4**	EPA 353.1	NMH	1	PASI-M
		EPA 6010	TEM	3	PASI-M
		EPA 8260	CNC	10	PASI-M
		RSK 175	LCW	1	PASI-M
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 4500-SO4 E	NMH	1	PASI-M
		SM 5310C	AMT	1	PASI-G
1086028005	**DPE-2**	EPA 353.1	NMH	1	PASI-M
		EPA 6010	TEM	3	PASI-M
		EPA 8260	CNC	10	PASI-M
		RSK 175	LCW	1	PASI-M
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 4500-SO4 E	NMH	1	PASI-M
		SM 5310C	AMT	1	PASI-G
1086028006	**MW15**	EPA 353.1	NMH	1	PASI-M
		EPA 6010	TEM	3	PASI-M

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SAMPLE ANALYTE COUNT

Project: CRC CITY OF ROCHESTER
Pace Project No.: 1086028

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260	CNC	10	PASI-M
		RSK 175	LCW	1	PASI-M
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 4500-SO4 E	NMH	1	PASI-M
		SM 5310C	AMT	1	PASI-G
1086028007	**DPE-7**	EPA 353.1	NMH	1	PASI-M
		EPA 6010	TEM	3	PASI-M
		EPA 8260	CNC	10	PASI-M
		RSK 175	LCW	1	PASI-M
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 4500-SO4 E	NMH	1	PASI-M
		SM 5310C	AMT	1	PASI-G
1086028008	**DPE-1**	EPA 353.1	NMH	1	PASI-M
		EPA 6010	TEM	3	PASI-M
		EPA 8260	CNC	10	PASI-M
		RSK 175	LCW	1	PASI-M
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 4500-SO4 E	NMH	1	PASI-M
		SM 5310C	AMT	1	PASI-G
1086028009	**DPE-6**	EPA 353.1	NMH	1	PASI-M
		EPA 6010	TEM	3	PASI-M
		EPA 8260	CNC	10	PASI-M
		RSK 175	LCW	1	PASI-M
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 4500-SO4 E	NMH	1	PASI-M
		SM 5310C	AMT	1	PASI-G
1086028010	**DPE-5**	EPA 353.1	NMH	1	PASI-M
		EPA 6010	TEM	3	PASI-M
		EPA 8260	CNC	10	PASI-M
		RSK 175	LCW	1	PASI-M
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 4500-SO4 E	NMH	1	PASI-M
		SM 5310C	AMT	1	PASI-G

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 1086028

Sample: DPE-8 **Lab ID: 1086028001** Collected: 12/10/08 09:30 Received: 12/11/08 09:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Methane	ND	ug/L	10.0	1		12/16/08 06:02	74-82-8	
6010 MET ICP, Lab Filtered	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium, Dissolved	**189000**	ug/L	500	1	12/15/08 15:13	12/16/08 10:07	7440-70-2	
Iron, Dissolved	ND	ug/L	50.0	1	12/15/08 15:13	12/16/08 10:07	7439-89-6	
Magnesium, Dissolved	**36800**	ug/L	500	1	12/15/08 15:13	12/16/08 10:07	7439-95-4	
8260 VOC	Analytical Method: EPA 8260							
1,1-Dichloroethene	ND	ug/L	100	100		12/12/08 20:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	100	100		12/12/08 20:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	100	100		12/12/08 20:54	156-60-5	
Tetrachloroethene	**14200**	ug/L	100	100		12/12/08 20:54	127-18-4	
Trichloroethene	ND	ug/L	100	100		12/12/08 20:54	79-01-6	
Vinyl chloride	ND	ug/L	40.0	100		12/12/08 20:54	75-01-4	
Dibromofluoromethane (S)	107	%	75-125	100		12/12/08 20:54	1868-53-7	
1,2-Dichloroethane-d4 (S)	95	%	75-125	100		12/12/08 20:54	17060-07-0	
Toluene-d8 (S)	105	%	75-125	100		12/12/08 20:54	2037-26-5	
4-Bromofluorobenzene (S)	90	%	75-125	100		12/12/08 20:54	460-00-4	
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)							
Sulfide	ND	mg/L	5.0	1		12/15/08 09:30		
353.1 Nitrate, unpreserved	Analytical Method: EPA 353.1							
Nitrate as N	**9.8**	mg/L	1.0	10		12/11/08 13:44	14797-55-8	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C							
Dissolved Organic Carbon	**4.0**	mg/L	2.0	1		12/15/08 13:10		M0
SM4500SO4-E, Sulfate	Analytical Method: SM 4500-SO4 E							
Sulfate	**262**	mg/L	25.0	10		12/15/08 10:15	14808-79-8	P6

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 1086028

Sample: MW20 **Lab ID: 1086028002** Collected: 12/10/08 10:30 Received: 12/11/08 09:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Methane	**17.0**	ug/L	10.0	1		12/16/08 07:18	74-82-8	
6010 MET ICP, Lab Filtered	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium, Dissolved	**260000**	ug/L	500	1	12/15/08 15:13	12/16/08 10:25	7440-70-2	
Iron, Dissolved	ND	ug/L	50.0	1	12/15/08 15:13	12/16/08 10:25	7439-89-6	
Magnesium, Dissolved	**65900**	ug/L	500	1	12/15/08 15:13	12/16/08 10:25	7439-95-4	
8260 VOC	Analytical Method: EPA 8260							
1,1-Dichloroethene	ND	ug/L	5.0	5		12/15/08 19:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	5		12/15/08 19:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	5		12/15/08 19:57	156-60-5	
Tetrachloroethene	**599**	ug/L	5.0	5		12/15/08 19:57	127-18-4	P6
Trichloroethene	ND	ug/L	5.0	5		12/15/08 19:57	79-01-6	
Vinyl chloride	ND	ug/L	2.0	5		12/15/08 19:57	75-01-4	
Dibromofluoromethane (S)	109	%	75-125	5		12/15/08 19:57	1868-53-7	pH
1,2-Dichloroethane-d4 (S)	99	%	75-125	5		12/15/08 19:57	17060-07-0	
Toluene-d8 (S)	105	%	75-125	5		12/15/08 19:57	2037-26-5	
4-Bromofluorobenzene (S)	95	%	75-125	5		12/15/08 19:57	460-00-4	
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)							
Sulfide	ND	mg/L	5.0	1		12/15/08 09:30		
353.1 Nitrate, unpreserved	Analytical Method: EPA 353.1							
Nitrate as N	**10.9**	mg/L	1.0	10		12/11/08 13:44	14797-55-8	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C							
Dissolved Organic Carbon	**2.7**	mg/L	2.0	1		12/15/08 13:29		
SM4500SO4-E, Sulfate	Analytical Method: SM 4500-SO4 E							
Sulfate	**203**	mg/L	25.0	10		12/15/08 10:22	14808-79-8	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 1086028

Sample: DPE-3 **Lab ID: 1086028003** Collected: 12/10/08 10:57 Received: 12/11/08 09:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Methane	ND	ug/L	10.0	1		12/16/08 07:44	74-82-8	
6010 MET ICP, Lab Filtered	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium, Dissolved	**556000**	ug/L	500	1	12/15/08 15:13	12/16/08 10:41	7440-70-2	
Iron, Dissolved	ND	ug/L	50.0	1	12/15/08 15:13	12/16/08 10:41	7439-89-6	
Magnesium, Dissolved	**103000**	ug/L	500	1	12/15/08 15:13	12/16/08 10:41	7439-95-4	
8260 VOC	Analytical Method: EPA 8260							
1,1-Dichloroethene	ND	ug/L	500	500		12/15/08 20:42	75-35-4	
cis-1,2-Dichloroethene	**1090**	ug/L	500	500		12/15/08 20:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	500	500		12/15/08 20:42	156-60-5	
Tetrachloroethene	**152000**	ug/L	1000	1000		12/18/08 08:10	127-18-4	
Trichloroethene	ND	ug/L	500	500		12/15/08 20:42	79-01-6	
Vinyl chloride	ND	ug/L	200	500		12/15/08 20:42	75-01-4	
Dibromofluoromethane (S)	110	%	75-125	500		12/15/08 20:42	1868-53-7	pH
1,2-Dichloroethane-d4 (S)	103	%	75-125	500		12/15/08 20:42	17060-07-0	
Toluene-d8 (S)	109	%	75-125	500		12/15/08 20:42	2037-26-5	
4-Bromofluorobenzene (S)	92	%	75-125	500		12/15/08 20:42	460-00-4	
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)							
Sulfide	ND	mg/L	5.0	1		12/15/08 09:30		
353.1 Nitrate, unpreserved	Analytical Method: EPA 353.1							
Nitrate as N	**9.8**	mg/L	1.0	10		12/11/08 13:44	14797-55-8	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C							
Dissolved Organic Carbon	**6.9**	mg/L	2.0	1		12/15/08 13:35		
SM4500SO4-E, Sulfate	Analytical Method: SM 4500-SO4 E							
Sulfate	**436**	mg/L	62.5	25		12/15/08 10:36	14808-79-8	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 1086028

Sample: DPE-4 **Lab ID: 1086028004** Collected: 12/10/08 11:20 Received: 12/11/08 09:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Methane	ND	ug/L	10.0	1		12/16/08 08:09	74-82-8	
6010 MET ICP, Lab Filtered	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium, Dissolved	**258000**	ug/L	500	1	12/15/08 15:13	12/16/08 10:47	7440-70-2	
Iron, Dissolved	ND	ug/L	50.0	1	12/15/08 15:13	12/16/08 10:47	7439-89-6	
Magnesium, Dissolved	**73400**	ug/L	500	1	12/15/08 15:13	12/16/08 10:47	7439-95-4	
8260 VOC	Analytical Method: EPA 8260							
1,1-Dichloroethene	ND	ug/L	500	500		12/15/08 21:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	500	500		12/15/08 21:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	500	500		12/15/08 21:04	156-60-5	
Tetrachloroethene	**35600**	ug/L	500	500		12/15/08 21:04	127-18-4	
Trichloroethene	ND	ug/L	500	500		12/15/08 21:04	79-01-6	
Vinyl chloride	ND	ug/L	200	500		12/15/08 21:04	75-01-4	
Dibromofluoromethane (S)	115	%	75-125	500		12/15/08 21:04	1868-53-7	
1,2-Dichloroethane-d4 (S)	94	%	75-125	500		12/15/08 21:04	17060-07-0	
Toluene-d8 (S)	109	%	75-125	500		12/15/08 21:04	2037-26-5	
4-Bromofluorobenzene (S)	97	%	75-125	500		12/15/08 21:04	460-00-4	
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)							
Sulfide	ND	mg/L	5.0	1		12/15/08 09:30		
353.1 Nitrate, unpreserved	Analytical Method: EPA 353.1							
Nitrate as N	**26.8**	mg/L	2.5	25		12/11/08 13:44	14797-55-8	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C							
Dissolved Organic Carbon	**2.7**	mg/L	2.0	1		12/15/08 13:41		
SM4500SO4-E, Sulfate	Analytical Method: SM 4500-SO4 E							
Sulfate	**235**	mg/L	25.0	10		12/15/08 10:25	14808-79-8	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 1086028

Sample: DPE-2 **Lab ID: 1086028005** Collected: 12/10/08 11:45 Received: 12/11/08 09:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Methane	ND	ug/L	10.0	1		12/16/08 08:35	74-82-8	
6010 MET ICP, Lab Filtered	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium, Dissolved	**181000**	ug/L	500	1	12/15/08 15:13	12/16/08 10:54	7440-70-2	
Iron, Dissolved	ND	ug/L	50.0	1	12/15/08 15:13	12/16/08 10:54	7439-89-6	
Magnesium, Dissolved	**47600**	ug/L	500	1	12/15/08 15:13	12/16/08 10:54	7439-95-4	
8260 VOC	Analytical Method: EPA 8260							
1,1-Dichloroethene	ND	ug/L	500	500		12/15/08 21:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	500	500		12/15/08 21:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	500	500		12/15/08 21:27	156-60-5	
Tetrachloroethene	**38200**	ug/L	500	500		12/15/08 21:27	127-18-4	
Trichloroethene	ND	ug/L	500	500		12/15/08 21:27	79-01-6	
Vinyl chloride	ND	ug/L	200	500		12/15/08 21:27	75-01-4	
Dibromofluoromethane (S)	122	%	75-125	500		12/15/08 21:27	1868-53-7	pH
1,2-Dichloroethane-d4 (S)	112	%	75-125	500		12/15/08 21:27	17060-07-0	
Toluene-d8 (S)	113	%	75-125	500		12/15/08 21:27	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125	500		12/15/08 21:27	460-00-4	
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)							
Sulfide	ND	mg/L	5.0	1		12/15/08 09:30		
353.1 Nitrate, unpreserved	Analytical Method: EPA 353.1							
Nitrate as N	**7.8**	mg/L	1.0	10		12/11/08 13:44	14797-55-8	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C							
Dissolved Organic Carbon	**2.8**	mg/L	2.0	1		12/15/08 13:45		
SM4500SO4-E, Sulfate	Analytical Method: SM 4500-SO4 E							
Sulfate	**182**	mg/L	25.0	10		12/15/08 10:25	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 1086028

Sample: MW15 **Lab ID: 1086028006** Collected: 12/10/08 12:15 Received: 12/11/08 09:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Methane	ND	ug/L	10.0	1		12/16/08 09:01	74-82-8	
6010 MET ICP, Lab Filtered	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium, Dissolved	**67700**	ug/L	500	1	12/15/08 15:13	12/16/08 11:01	7440-70-2	
Iron, Dissolved	ND	ug/L	50.0	1	12/15/08 15:13	12/16/08 11:01	7439-89-6	
Magnesium, Dissolved	**18700**	ug/L	500	1	12/15/08 15:13	12/16/08 11:01	7439-95-4	
8260 VOC	Analytical Method: EPA 8260							
1,1-Dichloroethene	ND	ug/L	1.0	1		12/15/08 17:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/15/08 17:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/15/08 17:43	156-60-5	
Tetrachloroethene	**104**	ug/L	1.0	1		12/15/08 17:43	127-18-4	
Trichloroethene	ND	ug/L	1.0	1		12/15/08 17:43	79-01-6	
Vinyl chloride	ND	ug/L	0.40	1		12/15/08 17:43	75-01-4	
Dibromofluoromethane (S)	112	%	75-125	1		12/15/08 17:43	1868-53-7	pH
1,2-Dichloroethane-d4 (S)	95	%	75-125	1		12/15/08 17:43	17060-07-0	
Toluene-d8 (S)	105	%	75-125	1		12/15/08 17:43	2037-26-5	
4-Bromofluorobenzene (S)	97	%	75-125	1		12/15/08 17:43	460-00-4	
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)							
Sulfide	ND	mg/L	5.0	1		12/15/08 09:30		
353.1 Nitrate, unpreserved	Analytical Method: EPA 353.1							
Nitrate as N	**2.2**	mg/L	0.20	2		12/11/08 13:44	14797-55-8	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C							
Dissolved Organic Carbon	ND	mg/L	2.0	1		12/15/08 13:49		
SM4500SO4-E, Sulfate	Analytical Method: SM 4500-SO4 E							
Sulfate	**87.5**	mg/L	25.0	10		12/15/08 10:28	14808-79-8	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 1086028

Sample: DPE-7 **Lab ID: 1086028007** Collected: 12/10/08 13:15 Received: 12/11/08 09:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Methane	ND	ug/L	10.0	1		12/16/08 09:26	74-82-8	
6010 MET ICP, Lab Filtered	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium, Dissolved	**123000**	ug/L	500	1	12/15/08 15:13	12/16/08 11:08	7440-70-2	
Iron, Dissolved	ND	ug/L	50.0	1	12/15/08 15:13	12/16/08 11:08	7439-89-6	
Magnesium, Dissolved	**23400**	ug/L	500	1	12/15/08 15:13	12/16/08 11:08	7439-95-4	
8260 VOC	Analytical Method: EPA 8260							
1,1-Dichloroethene	ND	ug/L	1.0	1		12/15/08 18:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/15/08 18:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/15/08 18:05	156-60-5	
Tetrachloroethene	**22.3**	ug/L	1.0	1		12/15/08 18:05	127-18-4	
Trichloroethene	ND	ug/L	1.0	1		12/15/08 18:05	79-01-6	
Vinyl chloride	ND	ug/L	0.40	1		12/15/08 18:05	75-01-4	
Dibromofluoromethane (S)	110	%	75-125	1		12/15/08 18:05	1868-53-7	
1,2-Dichloroethane-d4 (S)	90	%	75-125	1		12/15/08 18:05	17060-07-0	
Toluene-d8 (S)	98	%	75-125	1		12/15/08 18:05	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125	1		12/15/08 18:05	460-00-4	
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)							
Sulfide	ND	mg/L	5.0	1		12/15/08 09:30		
353.1 Nitrate, unpreserved	Analytical Method: EPA 353.1							
Nitrate as N	**7.9**	mg/L	1.0	10		12/11/08 13:44	14797-55-8	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C							
Dissolved Organic Carbon	**3.3**	mg/L	2.0	1		12/15/08 14:01		
SM4500SO4-E, Sulfate	Analytical Method: SM 4500-SO4 E							
Sulfate	**275**	mg/L	25.0	10		12/15/08 10:28	14808-79-8	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 1086028

Sample: DPE-1 **Lab ID: 1086028008** Collected: 12/10/08 13:50 Received: 12/11/08 09:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Methane	ND	ug/L	10.0	1		12/16/08 09:52	74-82-8	
6010 MET ICP, Lab Filtered	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium, Dissolved	**149000**	ug/L	500	1	12/15/08 15:13	12/16/08 11:23	7440-70-2	
Iron, Dissolved	ND	ug/L	50.0	1	12/15/08 15:13	12/16/08 11:23	7439-89-6	
Magnesium, Dissolved	**33400**	ug/L	500	1	12/15/08 15:13	12/16/08 11:23	7439-95-4	
8260 VOC	Analytical Method: EPA 8260							
1,1-Dichloroethene	ND	ug/L	2000	2000		12/15/08 21:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	2000	2000		12/15/08 21:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	2000	2000		12/15/08 21:49	156-60-5	
Tetrachloroethene	**161000**	ug/L	2000	2000		12/15/08 21:49	127-18-4	
Trichloroethene	ND	ug/L	2000	2000		12/15/08 21:49	79-01-6	
Vinyl chloride	ND	ug/L	800	2000		12/15/08 21:49	75-01-4	
Dibromofluoromethane (S)	116	%	75-125	2000		12/15/08 21:49	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	75-125	2000		12/15/08 21:49	17060-07-0	
Toluene-d8 (S)	99	%	75-125	2000		12/15/08 21:49	2037-26-5	
4-Bromofluorobenzene (S)	95	%	75-125	2000		12/15/08 21:49	460-00-4	
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)							
Sulfide	ND	mg/L	5.0	1		12/15/08 09:30		
353.1 Nitrate, unpreserved	Analytical Method: EPA 353.1							
Nitrate as N	**6.4**	mg/L	1.0	10		12/11/08 13:44	14797-55-8	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C							
Dissolved Organic Carbon	**4.8**	mg/L	2.0	1		12/15/08 14:06		
SM4500SO4-E, Sulfate	Analytical Method: SM 4500-SO4 E							
Sulfate	**250**	mg/L	25.0	10		12/15/08 10:31	14808-79-8	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 1086028

Sample: DPE-6 **Lab ID: 1086028009** Collected: 12/10/08 14:29 Received: 12/11/08 09:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Methane	ND	ug/L	10.0	1		12/16/08 10:17	74-82-8	
6010 MET ICP, Lab Filtered	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium, Dissolved	**70800**	ug/L	500	1	12/15/08 15:13	12/16/08 11:29	7440-70-2	
Iron, Dissolved	ND	ug/L	50.0	1	12/15/08 15:13	12/16/08 11:29	7439-89-6	
Magnesium, Dissolved	**17700**	ug/L	500	1	12/15/08 15:13	12/16/08 11:29	7439-95-4	
8260 VOC	Analytical Method: EPA 8260							
1,1-Dichloroethene	ND	ug/L	2.0	2		12/15/08 19:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	2.0	2		12/15/08 19:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	2.0	2		12/15/08 19:13	156-60-5	
Tetrachloroethene	**188**	ug/L	2.0	2		12/15/08 19:13	127-18-4	
Trichloroethene	ND	ug/L	2.0	2		12/15/08 19:13	79-01-6	
Vinyl chloride	ND	ug/L	0.80	2		12/15/08 19:13	75-01-4	
Dibromofluoromethane (S)	116	%	75-125	2		12/15/08 19:13	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	75-125	2		12/15/08 19:13	17060-07-0	
Toluene-d8 (S)	99	%	75-125	2		12/15/08 19:13	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125	2		12/15/08 19:13	460-00-4	
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)							
Sulfide	ND	mg/L	5.0	1		12/15/08 09:30		
353.1 Nitrate, unpreserved	Analytical Method: EPA 353.1							
Nitrate as N	**3.0**	mg/L	0.20	2		12/11/08 13:44	14797-55-8	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C							
Dissolved Organic Carbon	**2.5**	mg/L	2.0	1		12/15/08 14:10		
SM4500SO4-E, Sulfate	Analytical Method: SM 4500-SO4 E							
Sulfate	**159**	mg/L	25.0	10		12/15/08 10:34	14808-79-8	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 1086028

Sample: DPE-5 **Lab ID: 1086028010** Collected: 12/10/08 16:45 Received: 12/11/08 09:03 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Methane	ND	ug/L	10.0	1		12/16/08 10:43	74-82-8	
6010 MET ICP, Lab Filtered	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Calcium, Dissolved	**75400**	ug/L	500	1	12/15/08 15:13	12/16/08 11:36	7440-70-2	
Iron, Dissolved	ND	ug/L	50.0	1	12/15/08 15:13	12/16/08 11:36	7439-89-6	
Magnesium, Dissolved	**86200**	ug/L	500	1	12/15/08 15:13	12/16/08 11:36	7439-95-4	
8260 VOC	Analytical Method: EPA 8260							
1,1-Dichloroethene	ND	ug/L	10.0	10		12/15/08 20:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	10.0	10		12/15/08 20:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	10.0	10		12/15/08 20:20	156-60-5	
Tetrachloroethene	**1340**	ug/L	10.0	10		12/15/08 20:20	127-18-4	
Trichloroethene	ND	ug/L	10.0	10		12/15/08 20:20	79-01-6	
Vinyl chloride	ND	ug/L	4.0	10		12/15/08 20:20	75-01-4	
Dibromofluoromethane (S)	116	%	75-125	10		12/15/08 20:20	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	75-125	10		12/15/08 20:20	17060-07-0	
Toluene-d8 (S)	112	%	75-125	10		12/15/08 20:20	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125	10		12/15/08 20:20	460-00-4	
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)							
Sulfide	ND	mg/L	5.0	1		12/15/08 09:30		
353.1 Nitrate, unpreserved	Analytical Method: EPA 353.1							
Nitrate as N	**5.5**	mg/L	1.0	10		12/11/08 13:44	14797-55-8	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C							
Dissolved Organic Carbon	**4.7**	mg/L	2.0	1		12/15/08 14:14		
SM4500SO4-E, Sulfate	Analytical Method: SM 4500-SO4 E							
Sulfate	**468**	mg/L	62.5	25		12/15/08 10:57	14808-79-8	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 1086028

QC Batch: WETA/2965 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Dissolved Organic Carbon
Associated Lab Samples: 1086028001, 1086028002, 1086028003, 1086028004, 1086028005, 1086028006, 1086028007, 1086028008, 1086028009, 1086028010

METHOD BLANK: 112262 Matrix: Water
Associated Lab Samples: 1086028001, 1086028002, 1086028003, 1086028004, 1086028005, 1086028006, 1086028007, 1086028008, 1086028009, 1086028010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	2.0	12/15/08 12:58	

LABORATORY CONTROL SAMPLE: 112263

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	100	108	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 112264 112265

Parameter	Units	1086028001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	4.0	100	100	121	126	117	122	80-120	4	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 112266 112267

Parameter	Units	4012449001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	2.4	100	100	123	125	121	122	80-120	1	20	M0

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 1086028

QC Batch: WET/2788 Analysis Method: SM 4500-S F (2000)
QC Batch Method: SM 4500-S F (2000) Analysis Description: 4500S2F Sulfide, Iodometric
Associated Lab Samples: 1086028001, 1086028002, 1086028003, 1086028004, 1086028005, 1086028006, 1086028007, 1086028008, 1086028009, 1086028010

METHOD BLANK: 112490 Matrix: Water
Associated Lab Samples: 1086028001, 1086028002, 1086028003, 1086028004, 1086028005, 1086028006, 1086028007, 1086028008, 1086028009, 1086028010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	5.0	12/15/08 09:30	

LABORATORY CONTROL SAMPLE: 112491

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	50	45.6	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 112492 112493

Parameter	Units	1086028001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	50	50	44.4	47.6	89	95	80-120	7	20	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 1086028

QC Batch: WETA/7574 Analysis Method: EPA 353.1
QC Batch Method: EPA 353.1 Analysis Description: 353.1 Nitrate, unpreserved
Associated Lab Samples: 1086028001, 1086028002, 1086028003, 1086028004, 1086028005, 1086028006, 1086028007, 1086028008, 1086028009, 1086028010

METHOD BLANK: 562050 Matrix: Water
Associated Lab Samples: 1086028001, 1086028002, 1086028003, 1086028004, 1086028005, 1086028006, 1086028007, 1086028008, 1086028009, 1086028010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate as N	mg/L	ND	0.10	12/11/08 13:00	

LABORATORY CONTROL SAMPLE: 562051

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	1	1.0	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 562052 562053

Parameter	Units	1086028001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	9.8	1	1	10.9	10.9	109	110	80-120	.1	30	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 1086028

QC Batch: MPRP/14157 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 1086028001, 1086028002, 1086028003, 1086028004, 1086028005, 1086028006, 1086028007, 1086028008, 1086028009, 1086028010

METHOD BLANK: 562343 Matrix: Water
Associated Lab Samples: 1086028001, 1086028002, 1086028003, 1086028004, 1086028005, 1086028006, 1086028007, 1086028008, 1086028009, 1086028010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium, Dissolved	ug/L	ND	500	12/16/08 09:59	
Iron, Dissolved	ug/L	ND	50.0	12/16/08 09:59	
Magnesium, Dissolved	ug/L	ND	500	12/16/08 09:59	

LABORATORY CONTROL SAMPLE: 562344

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium, Dissolved	ug/L	10000	8430	84	80-120	
Iron, Dissolved	ug/L	10000	8440	84	80-120	
Magnesium, Dissolved	ug/L	10000	8500	85	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 562345 562346

Parameter	Units	1086028001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium, Dissolved	ug/L	189000	10000	10000	198000	199000	90	100	80-120	.5	30	
Iron, Dissolved	ug/L	ND	10000	10000	9170	9010	92	90	80-120	2	30	
Magnesium, Dissolved	ug/L	36800	10000	10000	46100	45300	93	85	80-120	2	30	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 1086028

QC Batch: AIR/7842 Analysis Method: RSK 175
QC Batch Method: RSK 175 Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 1086028001, 1086028002, 1086028003, 1086028004, 1086028005, 1086028006, 1086028007, 1086028008, 1086028009, 1086028010

METHOD BLANK: 562527 Matrix: Water
Associated Lab Samples: 1086028001, 1086028002, 1086028003, 1086028004, 1086028005, 1086028006, 1086028007, 1086028008, 1086028009, 1086028010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	ND	10.0	12/16/08 01:47	

LABORATORY CONTROL SAMPLE & LCSD: 562528 562529

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	60.7	44.9	46.1	74	76	70-130	3	30	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 1086028

QC Batch: MSV/11495
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 1086028001

METHOD BLANK: 562672 Matrix: Water
Associated Lab Samples: 1086028001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	1.0	12/12/08 13:03	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/12/08 13:03	
Tetrachloroethene	ug/L	ND	1.0	12/12/08 13:03	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/12/08 13:03	
Trichloroethene	ug/L	ND	1.0	12/12/08 13:03	
Vinyl chloride	ug/L	ND	0.40	12/12/08 13:03	
1,2-Dichloroethane-d4 (S)	%	102	75-125	12/12/08 13:03	
4-Bromofluorobenzene (S)	%	94	75-125	12/12/08 13:03	
Dibromofluoromethane (S)	%	118	75-125	12/12/08 13:03	
Toluene-d8 (S)	%	111	75-125	12/12/08 13:03	

LABORATORY CONTROL SAMPLE: 562673

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	20	21.0	105	75-127	
cis-1,2-Dichloroethene	ug/L	20	22.5	113	75-125	
Tetrachloroethene	ug/L	20	19.8	99	75-125	
trans-1,2-Dichloroethene	ug/L	20	23.2	116	75-125	
Trichloroethene	ug/L	20	19.8	99	75-125	
Vinyl chloride	ug/L	20	22.3	112	71-133	
1,2-Dichloroethane-d4 (S)	%			86	75-125	
4-Bromofluorobenzene (S)	%			91	75-125	
Dibromofluoromethane (S)	%			101	75-125	
Toluene-d8 (S)	%			115	75-125	

MATRIX SPIKE SAMPLE: 563531

Parameter	Units	1086017003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	ND	20	25.8	129	75-141	
cis-1,2-Dichloroethene	ug/L	ND	20	24.4	122	65-148	
Tetrachloroethene	ug/L	ND	20	21.5	107	75-133	
trans-1,2-Dichloroethene	ug/L	ND	20	24.5	122	75-138	
Trichloroethene	ug/L	ND	20	21.4	107	75-130	
Vinyl chloride	ug/L	ND	20	25.7	129	64-150	
1,2-Dichloroethane-d4 (S)	%				86	75-125	
4-Bromofluorobenzene (S)	%				103	75-125	
Dibromofluoromethane (S)	%				101	75-125	
Toluene-d8 (S)	%				114	75-125	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 1086028

SAMPLE DUPLICATE: 563530

Parameter	Units	1086017001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1-Dichloroethene	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	94	98	4		
4-Bromofluorobenzene (S)	%	92	95	3		
Dibromofluoromethane (S)	%	104	116	11		
Toluene-d8 (S)	%	104	121	15		

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 1086028

QC Batch: WETA/7584 Analysis Method: SM 4500-SO4 E
QC Batch Method: SM 4500-SO4 E Analysis Description: SM4500SO4-E, Sulfate
Associated Lab Samples: 1086028001, 1086028002, 1086028003, 1086028004, 1086028005, 1086028006, 1086028007, 1086028008, 1086028009, 1086028010

METHOD BLANK: 563270 Matrix: Water
Associated Lab Samples: 1086028001, 1086028002, 1086028003, 1086028004, 1086028005, 1086028006, 1086028007, 1086028008, 1086028009, 1086028010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	2.5	12/15/08 09:29	

LABORATORY CONTROL SAMPLE: 563271

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	7.5	7.5	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 563272 563273

Parameter	Units	1086028001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	262	20	20	265	263	15	7	80-120	.6	30	P6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 563274 563275

Parameter	Units	1086103001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	17.3	20	20	28.4	28.3	55	55	80-120	.3	30	M0

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 1086028

QC Batch: MSV/11503 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 1086028002, 1086028003, 1086028004, 1086028005, 1086028006, 1086028007, 1086028008, 1086028009, 1086028010

METHOD BLANK: 563624 Matrix: Water
Associated Lab Samples: 1086028002, 1086028003, 1086028004, 1086028005, 1086028006, 1086028007, 1086028008, 1086028009, 1086028010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	1.0	12/15/08 14:16	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/15/08 14:16	
Tetrachloroethene	ug/L	ND	1.0	12/15/08 14:16	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/15/08 14:16	
Trichloroethene	ug/L	ND	1.0	12/15/08 14:16	
Vinyl chloride	ug/L	ND	0.40	12/15/08 14:16	
1,2-Dichloroethane-d4 (S)	%	105	75-125	12/15/08 14:16	
4-Bromofluorobenzene (S)	%	89	75-125	12/15/08 14:16	
Dibromofluoromethane (S)	%	114	75-125	12/15/08 14:16	
Toluene-d8 (S)	%	108	75-125	12/15/08 14:16	

LABORATORY CONTROL SAMPLE: 563625

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	20	22.4	112	75-127	
cis-1,2-Dichloroethene	ug/L	20	23.4	117	75-125	
Tetrachloroethene	ug/L	20	20.8	104	75-125	
trans-1,2-Dichloroethene	ug/L	20	23.1	115	75-125	
Trichloroethene	ug/L	20	19.9	100	75-125	
Vinyl chloride	ug/L	20	22.4	112	71-133	
1,2-Dichloroethane-d4 (S)	%			91	75-125	
4-Bromofluorobenzene (S)	%			107	75-125	
Dibromofluoromethane (S)	%			100	75-125	
Toluene-d8 (S)	%			116	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 563667 563668

Parameter	Units	1086028002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	100	100	111	109	111	109	75-141	2	30	
cis-1,2-Dichloroethene	ug/L	ND	100	100	122	108	122	108	65-148	12	30	
Tetrachloroethene	ug/L	599	100	100	646	625	48	26	75-133	3	30	P6
trans-1,2-Dichloroethene	ug/L	ND	100	100	116	114	116	114	75-138	2	30	
Trichloroethene	ug/L	ND	100	100	97.9	93.8	98	94	75-130	4	30	
Vinyl chloride	ug/L	ND	100	100	113	110	113	110	64-150	3	30	
1,2-Dichloroethane-d4 (S)	%						82	85	75-125			
4-Bromofluorobenzene (S)	%						93	96	75-125			
Dibromofluoromethane (S)	%						101	103	75-125			pH

REPORT OF LABORATORY ANALYSIS

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.: 1086028

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 563667 563668

Parameter	Units	1086028002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene-d8 (S)	%						110	110	75-125			

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QUALIFIERS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 1086028

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay
PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

M0	Matrix spike recovery was outside laboratory control limits.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
pH	Post-analysis pH measurement indicates insufficient VOA sample preservation.

Pace Analytical Services, Inc.
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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC CITY OF ROCHESTER
Pace Project No.: 1086028

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
1086028001	DPE-8	SM 5310C	WETA/2965		
1086028002	MW20	SM 5310C	WETA/2965		
1086028003	DPE-3	SM 5310C	WETA/2965		
1086028004	DPE-4	SM 5310C	WETA/2965		
1086028005	DPE-2	SM 5310C	WETA/2965		
1086028006	MW15	SM 5310C	WETA/2965		
1086028007	DPE-7	SM 5310C	WETA/2965		
1086028008	DPE-1	SM 5310C	WETA/2965		
1086028009	DPE-6	SM 5310C	WETA/2965		
1086028010	DPE-5	SM 5310C	WETA/2965		
1086028001	DPE-8	SM 4500-S F (2000)	WET/2788		
1086028002	MW20	SM 4500-S F (2000)	WET/2788		
1086028003	DPE-3	SM 4500-S F (2000)	WET/2788		
1086028004	DPE-4	SM 4500-S F (2000)	WET/2788		
1086028005	DPE-2	SM 4500-S F (2000)	WET/2788		
1086028006	MW15	SM 4500-S F (2000)	WET/2788		
1086028007	DPE-7	SM 4500-S F (2000)	WET/2788		
1086028008	DPE-1	SM 4500-S F (2000)	WET/2788		
1086028009	DPE-6	SM 4500-S F (2000)	WET/2788		
1086028010	DPE-5	SM 4500-S F (2000)	WET/2788		
1086028001	DPE-8	EPA 353.1	WETA/7574		
1086028002	MW20	EPA 353.1	WETA/7574		
1086028003	DPE-3	EPA 353.1	WETA/7574		
1086028004	DPE-4	EPA 353.1	WETA/7574		
1086028005	DPE-2	EPA 353.1	WETA/7574		
1086028006	MW15	EPA 353.1	WETA/7574		
1086028007	DPE-7	EPA 353.1	WETA/7574		
1086028008	DPE-1	EPA 353.1	WETA/7574		
1086028009	DPE-6	EPA 353.1	WETA/7574		
1086028010	DPE-5	EPA 353.1	WETA/7574		
1086028001	DPE-8	EPA 3010	MPRP/14157	EPA 6010	ICP/6678
1086028002	MW20	EPA 3010	MPRP/14157	EPA 6010	ICP/6678
1086028003	DPE-3	EPA 3010	MPRP/14157	EPA 6010	ICP/6678
1086028004	DPE-4	EPA 3010	MPRP/14157	EPA 6010	ICP/6678
1086028005	DPE-2	EPA 3010	MPRP/14157	EPA 6010	ICP/6678
1086028006	MW15	EPA 3010	MPRP/14157	EPA 6010	ICP/6678
1086028007	DPE-7	EPA 3010	MPRP/14157	EPA 6010	ICP/6678
1086028008	DPE-1	EPA 3010	MPRP/14157	EPA 6010	ICP/6678
1086028009	DPE-6	EPA 3010	MPRP/14157	EPA 6010	ICP/6678
1086028010	DPE-5	EPA 3010	MPRP/14157	EPA 6010	ICP/6678
1086028001	DPE-8	RSK 175	AIR/7842		
1086028002	MW20	RSK 175	AIR/7842		
1086028003	DPE-3	RSK 175	AIR/7842		
1086028004	DPE-4	RSK 175	AIR/7842		
1086028005	DPE-2	RSK 175	AIR/7842		
1086028006	MW15	RSK 175	AIR/7842		
1086028007	DPE-7	RSK 175	AIR/7842		

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC CITY OF ROCHESTER
Pace Project No.: 1086028

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
1086028008	**DPE-1**	RSK 175	AIR/7842		
1086028009	**DPE-6**	RSK 175	AIR/7842		
1086028010	**DPE-5**	RSK 175	AIR/7842		
1086028001	**DPE-8**	EPA 8260	MSV/11495		
1086028001	**DPE-8**	SM 4500-SO4 E	WETA/7584		
1086028002	**MW20**	SM 4500-SO4 E	WETA/7584		
1086028003	**DPE-3**	SM 4500-SO4 E	WETA/7584		
1086028004	**DPE-4**	SM 4500-SO4 E	WETA/7584		
1086028005	**DPE-2**	SM 4500-SO4 E	WETA/7584		
1086028006	**MW15**	SM 4500-SO4 E	WETA/7584		
1086028007	**DPE-7**	SM 4500-SO4 E	WETA/7584		
1086028008	**DPE-1**	SM 4500-SO4 E	WETA/7584		
1086028009	**DPE-6**	SM 4500-SO4 E	WETA/7584		
1086028010	**DPE-5**	SM 4500-SO4 E	WETA/7584		
1086028002	**MW20**	EPA 8260	MSV/11503		
1086028003	**DPE-3**	EPA 8260	MSV/11503		
1086028004	**DPE-4**	EPA 8260	MSV/11503		
1086028005	**DPE-2**	EPA 8260	MSV/11503		
1086028006	**MW15**	EPA 8260	MSV/11503		
1086028007	**DPE-7**	EPA 8260	MSV/11503		
1086028008	**DPE-1**	EPA 8260	MSV/11503		
1086028009	**DPE-6**	EPA 8260	MSV/11503		
1086028010	**DPE-5**	EPA 8260	MSV/11503		

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**						
10/15/2009 - DPE-1 operation		**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	501	1.5000E-02	7.5150E+00	5.9644E-05	2.6124E-04	2.6124E-04	7.5150E+00
Benzene	71-43-2	1.5	1.5000E-02	2.2500E-02	1.7857E-07	7.8216E-07	7.8216E-07	2.2500E-02
Dichlorodifluoromethane (CFC-12)	75-71-8	2.8	1.5000E-02	4.2000E-02	3.3334E-07	1.4600E-06	1.4600E-06	4.2000E-02
Ethanol	64-17-5	8.4	1.5000E-02	1.2600E-01	1.0000E-06	4.3801E-06	4.3801E-06	1.2600E-01
Hexane	110-54-3	35.4	1.5000E-02	5.3100E-01	4.2144E-06	1.8459E-05	1.8459E-05	5.3100E-01
Methylene chloride (Dichloromethane)	75-09-2	276	1.5000E-02	4.1400E+00	3.2858E-05	1.4392E-04	1.4392E-04	4.1400E+00
Tetrachloroethylene (Perchloroethylene)	127-18-4	396000	1.5000E-02	5.9400E+03	4.7144E-02	2.0649E-01	2.0649E-01	5.9400E+03
Toluene	108-88-3	10.3	1.5000E-02	1.5450E-01	1.2262E-06	5.3708E-06	5.3708E-06	1.5450E-01
Trichloro-1,2,2-trifluoroethane, 1,1,2- (Freon 113)	76-13-1	97900	1.5000E-02	1.4685E+03	1.1655E-02	5.1049E-02	5.1049E-02	1.4685E+03
Trichloroethylene	79-01-6	13.6	1.5000E-02	2.0400E-01	1.6191E-06	7.0915E-06	7.0915E-06	2.0400E-01
Trichlorofluoromethane (CFC-11)	75-69-4	1.7	1.5000E-02	2.5500E-02	2.0238E-07	8.8644E-07	8.8644E-07	2.5500E-02
Xylenes	1330-20-7	2.6	1.5000E-02	3.9000E-02	3.0953E-07	1.3557E-06	1.3557E-06	3.9000E-02
							2.5798E-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 Bioi Business Center**
Emission Test Date:	**10/15/2009**

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

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)
Methyl ethyl ketone (2-Butanone)	78-93-3	5.40E+00	0.00E+00	1.00	1.40E-01	1.11E-06	4.88E-06	1.40E-01	1.11E-06	4.88E-06
Tetrachloroethylene (Perchloroethylene)	127-18-4	2.14E+02	0.00E+00	1.00	5.56E+00	4.42E-05	1.93E-04	5.56E+00	4.42E-05	1.93E-04
Trichloro-1,2,2-trifluoroethane, 1,1,2- (Freon 113)	76-13-1	1.40E+00	0.00E+00	1.00	3.64E-02	2.89E-07	1.27E-06	3.64E-02	2.89E-07	1.27E-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:

10/15/09 - DPE-1

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	7.52E+00	9.24E-03	0.0	
Benzene	71-43-2	3.00E+01	4.55E+00	1230	3.70E+03	2.25E-02	2.77E-05	0.0	6.1E-11
Dichlorodifluoromethane (CFC-12)	75-71-8	2.00E+02		1230	1.63E+05	4.20E-02	5.17E-05	0.0	
Ethanol	64-17-5	1.50E+04		1230	1.22E+07	1.26E-01	1.55E-04	0.0	
Hexane	110-54-3	2.00E+03		1230	1.63E+06	5.31E-01	6.53E-04	0.0	
Methyl ethyl ketone (2-Butanone)	78-93-3	5.00E+03		1230	4.07E+06	1.40E-01	1.73E-04	0.0	
Methylene chloride (Dichloromethane)	75-09-2	4.00E+02	2.13E+01	1230	1.73E+04	4.14E+00	5.09E-03	0.0	2.4E-09
Tetrachloroethylene (Perchloroethylene)	127-18-4	1.00E+02	2.00E+01	1230	1.63E+04	5.95E+03	7.31E+00	0.1	3.7E-06
Toluene	108-88-3	5.00E+03		1230	4.07E+06	1.55E-01	1.90E-04	0.0	
Trichloro-1,2,2-trifluoroethane, 1,1,2- (Freon 113)	76-13-1			1230		1.47E+03	1.81E+00		
Trichloroethylene	79-01-6	6.00E+02	3.03E+00	1230	2.46E+03	2.04E-01	2.51E-04	0.0	8.3E-10
Trichlorofluoromethane (CFC-11)	75-69-4			1230		2.55E-02	3.14E-05		
Xylenes	1330-20-7	1.00E+02		1230	8.13E+04	3.90E-02	4.80E-05	0.0	
						Additive Risk:		**0.1**	**3.7E-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:

10/15/09 - DPE-1

***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		7.52E+00	1.10E-01	
Benzene	**71-43-2**	**1000**	**3343**	**2.99E+05**	**2.25E-02**	**3.29E-04**	0.0
Dichlorodifluoromethane (CFC-12)	75-71-8		3343		4.20E-02	6.15E-04	
Ethanol	64-17-5	180000	3343	5.38E+07	1.26E-01	1.85E-03	0.0
Hexane	110-54-3		3343		5.31E-01	7.78E-03	
Methyl ethyl ketone (2-Butanone)	78-93-3	10000	3343	2.99E+06	1.40E-01	2.06E-03	0.0
Methylene chloride (Dichloromethane)	75-09-2	10000	3343	2.99E+06	4.14E+00	6.06E-02	0.0
Tetrachloroethylene (Perchloroethylene)	127-18-4	20000	3343	5.98E+06	5.95E+03	8.71E+01	0.0
Toluene	108-88-3	37000	3343	1.11E+07	1.55E-01	2.26E-03	0.0
Trichloro-1,2,2-trifluoroethane, 1,1,2- (Freon 113)	76-13-1		3343		1.47E+03	2.15E+01	
Trichloroethylene	**79-01-6**	**2000**	**3343**	**5.98E+05**	**2.04E-01**	**2.99E-03**	0.0
Trichlorofluoromethane (CFC-11)	75-69-4		3343		2.55E-02	3.73E-04	
Xylenes	1330-20-7	43000	3343	1.29E+07	3.90E-02	5.71E-04	0.0
					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:	**0**
Number of Compounds with Cancer Risk > 10^{-5}	**0**
Noncancer Hazard Index:	**0.1**
Excess Lifetime Cancer Risk (ELCR):	**3.7E-06**

ACUTE RISK SUMMARY	
Number of Compounds with Hazard Quotient >1:	**0**
Hazard Index:	**0.0**

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

Site Data Entry Worksheet for Soil Vapor Extraction Systems

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

Project Name:		Enter Height of Stack#1 (meters):	Enter Distance from Stack#1 to Nearest Receptor or Property Boundary (in meters, minimum 10):	Enter Measured Gas Flow Rate through Vent Stack#1 (m^3/sec):				
MN Bio Business Center		8	10	0.02				
Date of Emission Test:		**STACK 1**						
10/16/09 - all wells		**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	37000	1.5000E-02	5.5500E+02	4.4048E-03	1.9293E-02	1.9293E-02	5.5500E+02
Benzene	71-43-2	1.1	1.5000E-02	1.6500E-02	1.3095E-07	5.7358E-07	5.7358E-07	1.6500E-02
Chloroform	67-66-3	25.8	1.5000E-02	3.8700E-01	3.0715E-06	1.3453E-05	1.3453E-05	3.8700E-01
Dichloroethylene (1,1-) (Vinylidene chloride)	75-35-4	13.9	1.5000E-02	2.0850E-01	1.6548E-06	7.2480E-06	7.2480E-06	2.0850E-01
Ethanol	64-17-5	8.9	1.5000E-02	1.3350E-01	1.0595E-06	4.6408E-06	4.6408E-06	1.3350E-01
Ethyl benzene	100-41-4	7.9	1.5000E-02	1.1850E-01	9.4049E-07	4.1194E-06	4.1194E-06	1.1850E-01
Hexane	110-54-3	2.1	1.5000E-02	3.1500E-02	2.5000E-07	1.0950E-06	1.0950E-06	3.1500E-02
Methyl ethyl ketone (2-Butanone)	78-93-3	12.2	1.5000E-02	1.8300E-01	1.4524E-06	6.3615E-06	6.3615E-06	1.8300E-01
Methylene chloride (Dichloromethane)	75-09-2	276	1.5000E-02	4.1400E+00	3.2858E-05	1.4392E-04	1.4392E-04	4.1400E+00
Naphthalene	91-20-3	5.6	1.5000E-02	8.4000E-02	6.6668E-07	2.9200E-06	2.9200E-06	8.4000E-02
Tetrachloroethylene (Perchloroethylene)	127-18-4	571000	1.5000E-02	8.5650E+03	6.7977E-02	2.9774E-01	2.9774E-01	8.5650E+03
Toluene	108-88-3	17.6	1.5000E-02	2.6400E-01	2.0953E-06	9.1773E-06	9.1773E-06	2.6400E-01
Trichloro-1,2,2-trifluoroethane, 1,1,2- (Freon 113)	76-13-1	172	1.5000E-02	2.5800E+00	2.0477E-05	8.9687E-05	8.9687E-05	2.5800E+00
Trichloroethylene	79-01-6	153	1.5000E-02	2.2950E+00	1.8215E-05	7.9780E-05	7.9780E-05	2.2950E+00
Vinyl acetate	108-05-4	7.4	1.5000E-02	1.1100E-01	8.8097E-07	3.8586E-06	3.8586E-06	1.1100E-01
Xylenes	1330-20-7	32.5	1.5000E-02	4.8750E-01	3.8691E-06	1.6947E-05	1.6947E-05	4.8750E-01
							3.1742E-01	

Site Data Entry Worksheet for Air Stripper Systems

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

Project Name:	
MN Bio Business Center	
Date of Emission Test:	
10/16/09 - all wells	

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)
Methyl ethyl ketone (2-Butanone)	78-93-3	5.40E+00	0.00E+00	1.00	1.40E-01	1.11E-06	4.88E-06	1.40E-01	1.11E-06	4.88E-06
Tetrachloroethylene (Perchloroethylene)	127-18-4	2.14E+02	0.00E+00	1.00	5.56E+00	4.42E-05	1.93E-04	5.56E+00	4.42E-05	1.93E-04
Trichloro-1,2,2-trifluoroethane, 1,1,2- (Freon 113)	76-13-1	1.40E+00	0.00E+00	1.00	3.64E-02	2.89E-07	1.27E-06	3.64E-02	2.89E-07	1.27E-06

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

Project Name:
MN Bio Business Center
Date of Emission Test:
10/16/09 - all wells

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	5.55E+02	6.83E-01	0.0	
Benzene	71-43-2	3.00E+01	4.55E+00	1230	3.70E+03	1.65E-02	2.03E-05	0.0	4.5E-11
Chloroform	67-66-3	1.00E+02		1230	8.13E+04	3.87E-01	4.76E-04	0.0	
Dichloroethylene (1,1-) (Vinylidene chloride)	75-35-4	2.00E+02		1230	1.63E+05	2.09E-01	2.56E-04	0.0	
Ethanol	64-17-5	1.50E+04		1230	1.22E+07	1.34E-01	1.64E-04	0.0	
Ethyl benzene	100-41-4	1.00E+03		1230	8.13E+05	1.19E-01	1.46E-04	0.0	
Hexane	110-54-3	2.00E+03		1230	1.63E+06	3.15E-02	3.87E-05	0.0	
Methyl ethyl ketone (2-Butanone)	78-93-3	5.00E+03		1230	4.07E+06	3.23E-01	3.98E-04	0.0	
Methylene chloride (Dichloromethane)	75-09-2	4.00E+02	2.13E+01	1230	1.73E+04	4.14E+00	5.09E-03	0.0	2.4E-09
Naphthalene	91-20-3	9.00E+00		1230	7.32E+03	8.40E-02	1.03E-04	0.0	
Tetrachloroethylene (Perchloroethylene)	127-18-4	1.00E+02	2.00E+01	1230	1.63E+04	8.57E+03	1.05E+01	0.1	5.3E-06
Toluene	108-88-3	5.00E+03		1230	4.07E+06	2.64E-01	3.25E-04	0.0	
Trichloro-1,2,2-trifluoroethane, 1,1,2- (Freon 113)	76-13-1			1230		2.62E+00	3.22E-03		
Trichloroethylene	79-01-6	6.00E+02	3.03E+00	1230	2.46E+03	2.30E+00	2.82E-03	0.0	9.3E-09
Vinyl acetate	108-05-4	2.00E+02		1230	1.63E+05	1.11E-01	1.37E-04	0.0	
Xylenes	1330-20-7	1.00E+02		1230	8.13E+04	4.88E-01	6.00E-04	0.0	
						Additive Risk:		**0.1**	**5.3E-06**

Screening Emission Rates (SERs) and Acute Risk Summary

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

Project Name:
MN Bio Business Center
Date of Emission Test:
10/16/09 - all wells

***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		5.55E+02	8.13E+00	
Benzene	**71-43-2**	**1000**	**3343**	**2.99E+05**	**1.65E-02**	**2.42E-04**	0.0
Chloroform	**67-66-3**	**150**	**3343**	**4.49E+04**	**3.87E-01**	**5.67E-03**	0.0
Dichloroethene (trans -1,2-)	156-60-5		85665			3.05E-03	
Dichloroethylene (1,1-) (Vinylidene chloride)	75-35-4		3343		2.09E-01	3.05E-03	
Ethanol	64-17-5	180000	3343	5.38E+07	1.34E-01	1.95E-03	0.0
Ethyl benzene	**100-41-4**	**10000**	3343	**2.99E+06**	**1.19E-01**	1.74E-03	0.0
Hexane	110-54-3		3343		3.15E-02	4.61E-04	
Methyl ethyl ketone (2-Butanone)	78-93-3	10000	3343	2.99E+06	3.23E-01	4.74E-03	0.0
Methylene chloride (Dichloromethane)	75-09-2	10000	3343	2.99E+06	4.14E+00	6.06E-02	0.0
Naphthalene	91-20-3	200	3343	5.98E+04	8.40E-02	1.23E-03	0.0
Tetrachloroethylene (Perchloroethylene)	127-18-4	20000	3343	5.98E+06	8.57E+03	1.25E+02	0.0
Toluene	108-88-3	37000	3343	1.11E+07	2.64E-01	3.87E-03	0.0
Trichloro-1,2,2-trifluoroethane, 1,1,2- (Freon 113)	76-13-1		3343		2.62E+00	3.83E-02	
Trichloroethylene	**79-01-6**	**2000**	**3343**	**5.98E+05**	**2.30E+00**	**3.36E-02**	0.0
Vinyl acetate	108-05-4		3343		1.11E-01	1.63E-03	
Xylenes	1330-20-7	43000	3343	1.29E+07	4.88E-01	7.14E-03	0.0
					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:	**0**
Number of Compounds with Cancer Risk > 10^{-5}	**0**
Noncancer Hazard Index:	**0.1**
Excess Lifetime Cancer Risk (ELCR):	**5.3E-06**

ACUTE RISK SUMMARY	
Number of Compounds with Hazard Quotient >1:	**0**
Hazard Index:	**0.0**

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